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TECH



NEWS

SCHOOL OF TECHNOLOGY

Vol. III No. 2

Thursday, October 6, 1955

By Student Fees

RAPPOLT HEADS DRAFTING DEPT.

This semester the chairmanship of our Drafting department expired for Prof. Appelby. Associate Professor Frank N. Rappolt is succeeding him. All the members of the department agree that the selection of Prof. Rappolt for the three year period (all chairmen are elected for a three year term) will prove to be very wise.

The professor is the kind of forceful leader who has shown his capabilities in numerous ways. For the past twenty-five years the bespectacled instructor has been teaching at our school, and filling the bill as a consulting engineer.

Professor Rappolt was graduated from City College in 1925 with a Bachelor of Science degree. He continued his scholastic endeavors, and received his BCE degree from City College in 1930, and five years later an M.S. from Columbia University.

Before starting to teach at C.C.N.Y. in 1930, the Professor was engaged in engineering work for the Westchester Park Administration, and later, for the Board of Transportation of the

(Continued on Page 8)



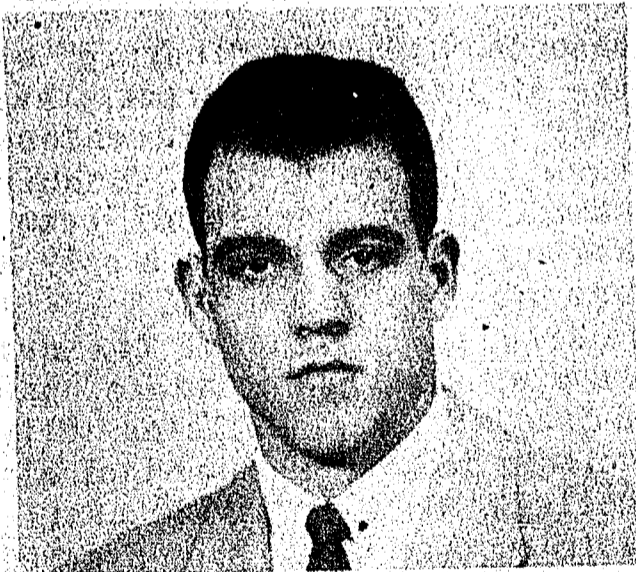
Prof. Frank N. Rappolt

LEADERSHIP CLASS TONIGHT

The first meeting of the Leadership Development Program will take place on Thursday, Oct. 6, from 7-9 p.m. at the Townsend Harris Auditorium

This orientation session will be conducted by co-chairman Jack Cole and Herb Geissler. In addition, Mr. Bonforte will speak on the definition of leadership and why industry needs engineers as business executives.

The seventy people taking the program will form study groups of eight each, to study separate topics.



Jack Cole, New Chairman

The study schedule for the Leadership Development Program is as follows:

October	Discussions
13	Leadership
20	Parliamentary Law
27	Public Speaking

WORKSHOP

November 3, 10, 17, 24
Group Dynamics, Social Intelligence, Organizational Management, Running a Meeting, Assuming and Delegating Responsibility.

BONFORTE TO ADDRESS SENIORS



Mr. Bonforte

In a TIIC sponsored speech on employment for graduate engineer, Mr. Bonforte of the Placement Bureau will stress the importance of the applicants' attitude during the interview. A company is interested in attracting young men who have some idea of what they want to do in the company. Prospective employees should be very interested in the company, and be able to express some reason for wanting to work in it. Primarily, it must be realized the company wants to know why it should hire you rather than another engineer.

According to studies, the majority of jobs are to be found within a triangle with vertices at New York, Chicago and Boston. The West Coast is another lucrative location with wide opportunities.

The graduating engineer may expect an average of four or five job offers upon graduation. Some students may receive as many as eleven or twelve offers.

The average salary offers will range from \$350 to \$400 per month, depending on previous experience and academic standing.

Most interviews will be held in 103 Pinley.

TECH NEWS

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ALLEGAROO

While other colleges are steeped in tradition, where the students have an abundance of school spirit with the "Joe College" spirit pervading, the only tradition at C.C.N.Y. is one of great apathy. Athletic events are rarely well attended even when at home. Away games often find the coach, and manager (and a few spirited fans) the only spectators. Next month, the soccer team is going to West Point to play Army. This is our most successful team, and it will be a big day. At any other school, buses would be chartered, and mobs of students would accompany the team. But this is City College and Coach Karlin's boys will play for an audience consisting mainly of cadets. Thursday, from twelve to two, is club time, when the extra-curricular program is in full swing. Yet, countless students try to schedule no classes for Thursday afternoon so that they can run home at noon.

This traditional apathy has existed for some time, and all attempts to dispel it have been

unsuccessful. The "inertia" of the situation is so great, that only a "force" of tremendous magnitude, such as a "Double Championship" basketball team, has any effect; and this only a temporary one.

With the advent of the new campus, with grass, trees, and a Student Center Building, City College looks like the "typical" college. Facilities are available such as were never dreamed of before. To the upperclassmen these are new and wonderful, and very inviting. We sample them hungrily, but we must also use them after the novelty wears off. To the future students, this will all be commonplace, and not at all exciting. There will be no draw due to newness, so we must make participation a habit, naturally acquired by freshmen. It is the responsibility of all of us to create a precedent, a custom of participating in, and making use of, all facets of college life. Let us create a new tradition at City, one of school spirit, and allegiance to Alma Mater.

TIIC OR IFC

For several years an SFCSA ruling has existed requiring all Greek letter fraternities at the college to join I.F.C. - the Inter-Fraternity Council. The wording of the ruling is ambiguous, and few of the Tech fraternities have joined I.F.C. since the ruling was made. This term, with the opening of Student Center, I.F.C. is pressing for enforcement of the ruling.

Several Tech fraternities have voted against joining I.F.C., others are undecided, and one, A.M.E., has already joined the Council.

Joe DeMaio, President of I.F.C., believes that "every social Greek letter fraternity should belong to the Inter-Fraternity Council because the program of I.F.C. is one which can greatly benefit all its members regardless of their majors. A greater exchange of ideas between the Tech school and the rest of the college can be achieved through I.F.C."

In a statement to the Tech News, Herb Geissler, President of T.I.I.C., agreed with Joe and stated his opinions on the subject.

"The basic problem is a matter of interpretation of the ruling. I'm sure we will eventually reach a solution agreeable to all concerned."

"I personally feel that IFC and TIIC can exist in perfect harmony. We each have our own special interests, and with good coordination, can jointly produce programs that will be beneficial to the campus."

Sigma Phi Omega members do not think membership in IFC is necessary because, "TIIC has been fulfilling all of the needs for a co-ordinating body, while until now, IFC has been inactive." They further feel that "if Tech fraternities were to join IFC, this would lead to confusion and duplication of activities".

Alpha Mu Epsilon, the first Tech fraternity to join IFC has taken the initiative because IFC is similarly a social organization while TIIC is not. A.M.E. President John Del Gobbo believes that it is necessary to maintain contact with the non-Tech fraternities on campus.

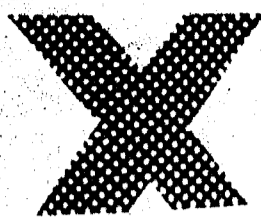
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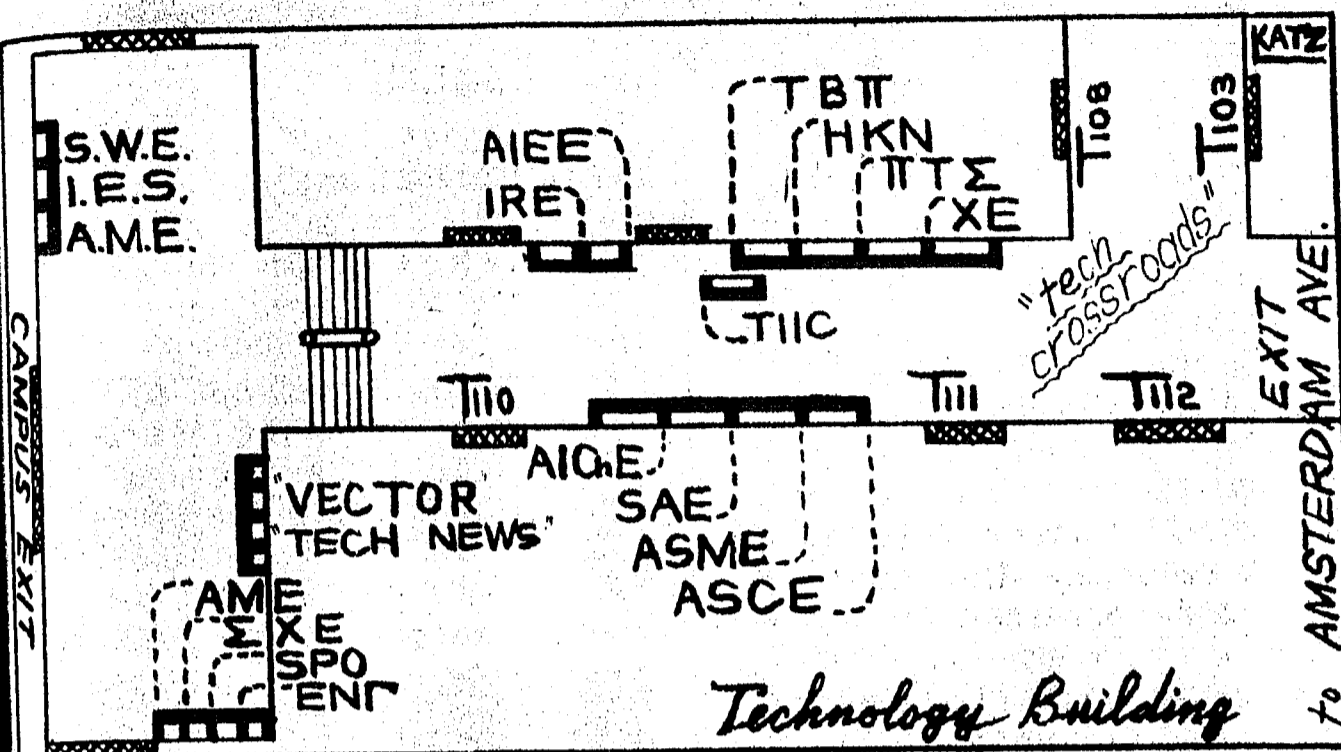
MISS TECHNOLOGY CONTEST

Looking up from his pressure-gauges one day last week an eye sore engineer had a vision. Before him, he saw the hazy outlines of a thinly clad voluptuous maiden. Slowly, seductively she floated across the room toward the entranced, and no-longer eye sore engineer. When within a few feet of him she bent up head down until her lips were even to his that he instinctively knew that no vernier could measure the space between them. Then she spoke: "I'm Miss Technology".

All this to announce the commencement of a Beauty Contest to be sponsored by Tech News in conjunction with TIIC. The winner to be crowned "MISS TECHNOLOGY".

The rules of the contest are simple.

1. Girls must be entered by a C.C.N.Y. engineering student.
2. Engineers may enter as many girls as they dare.
3. Girls need not be CCNY students.
4. Pictures may be dropped in box outside F316 or put in envelope on Tech News Bulletin board at Tech Cross Roads.
5. Information blanks will be available for the entrants.
6. If you don't have a good picture, we will photograph the entrant for you.
7. Every two weeks a winner will be selected and at the end of the term a final winner will be chosen.
8. A prize will be awarded to the winner along with the highly coveted title.



Have you become a bulletin board reader yet? You may laugh at your friends who spend 'precious' time at various bulletin boards but, the way things are, this can well be the most worthwhile way to spend your spare moments.

Did you ever stop to think how many announcements concerning scholarships, fellowships, jobs, awards, and contests remain unnoticed, hidden away on cluttered bulletin boards in dark corners? The ironic thing is that these contests are for you to enter... the awards are there for you to win. There is no question that these opportunities are given inadequate oral publicity. Therefore do the wise thing... keep your eyes open!

How to join: Day & Evening Session Students - Drop into our office Thursday: 12-2 P.M. (Student Center) Finley 316, or fill out form on TN Bulletin Board.

Positions: Writers typists, photographers.

Qualifications: A willingness to work.

Reason for joining: Working for a newspaper is a lot of fun. Besides, WE NEED YOU !!!

COMING EVENTS

Oct. 6, Thursday

ALL SOCIETIES - "Employment Opportunities", Mr. Bonforte

Oct. 13, Thursday

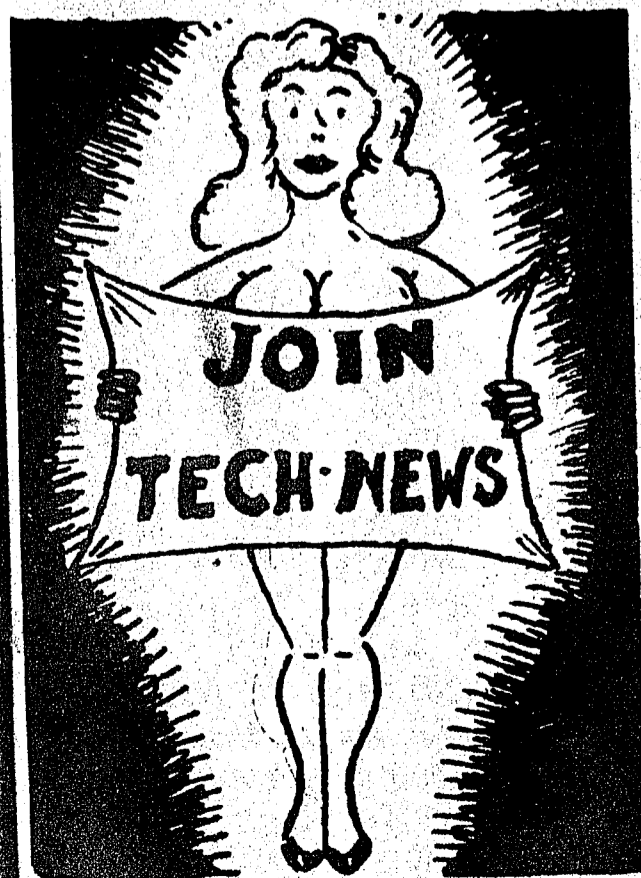
AICHE "Glycerine from Petroleum" Shell Chemical Corp.
SAE "High Speed Flight" - Reaction Motors
AIEE-IRE "Application of Magnetic Amplifiers"

Oct. 17, Monday

ASTE Plant trip

Oct. 20, Thursday

AICHE "Thermo-Dynamics" Prof. M. Zemansky
ASME "Kinematics" - Prof. Rappaport
AIEE-IRE Operational Calculus for Linear Systems - Prof. Jacob Millman Columbia University
ASTE Highway Route-Location Study - R.H. Dodds - 3-D films.



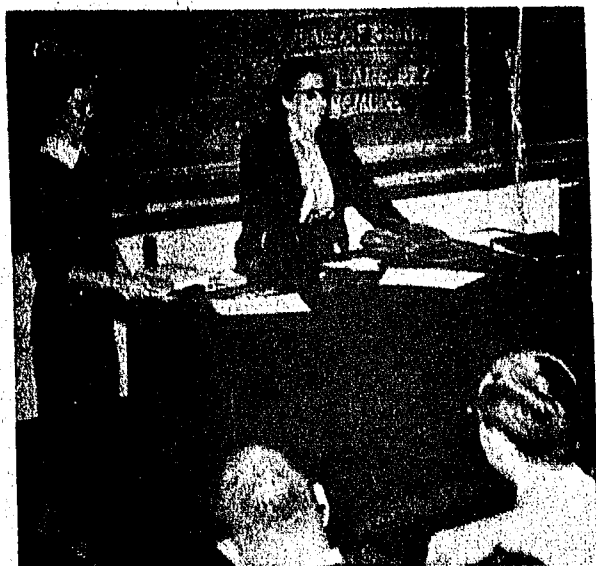
TECH LIFE

AIEE-IRE RECONVENES

Along with a record membership of 250, AIEE-IRE held its first meeting of the term on September 22nd. Speakers at the meeting included Dr. Froehlich, Dean Wolf, Prof. Hunt, and Prof. Hansteen.

Dr. Froehlich, newly-elected Chairman of the Electrical Engineering Department, "welcomed the members and expressed her wishes to all for a very successful term".

Prof. Hansteen added that AIEE-IRE offered them a good opportunity for self-development". He made an urgent appeal for committee membership, stressing the fact that early training in teamwork and cooperation, as provided by the individual committees, is of priceless value to the successful engineer.



Anne Rutka and Thomas Weiss, Presidents of AIEE and IRE respectively, welcomed the members and announced the tentative schedule of lectures for the fall term.

The very promising list includes a lecture on rockets, an orientation tour of the college communications laboratory, a lecture on the "Application of Magnetic Amplifiers", (Oct. 13th) a TIIC - sponsored debate on unions, and a lecture on "Color TV Receivers".

Also planned are an inter-organizational softball game, lectures by Professors Chameides and Taub of the EE department, a lecture on "A. Approximate Operational Calculus for Linear Systems" by Prof. Jacob Millman

AICHE MEETS

The first meeting on AICHE on September 22, proved to be a very fruitful and successful one. The proceedings started with the introduction of this term's officers by President Rick Randall, after which two movies were shown. The first of these films concerned the production and uses of rubber. The second dealt with the growing needs for gasoline and oil in transportation and pointed out the roles played by distillation, alteration and purification in making better products for the increasing needs of the gasoline engine.

The membership of AICHE may prove to be the largest in the history of the organization at the college due to the extensive calendar of events.

ASME, SAE, ASTE COMBINE

The opening meeting of the Mechanical Engineering societies were held Thursday, September 22. The newly elected officers were pleasantly surprised to see the large turnout of students.

Joseph Heindl, president of ASME, outlined some of the term's forthcoming events, which include a plant trip to Worthington Diesel, and a lecture on "Entropy" by Prof. M. Zemansky.

Immediately following, Marty Drapkin, president of SAE commented on four major events planned by his society. The four are: a lecture on high-speed flight by a Reaction Motors Corp. engineer; a special events social; a lecture on the design and building of sports cars, and finally, a tour of Texaco's Fuel and Lubrication Research Lab.

Chep Chesis, president of ASTE, the youngest of the M.E. societies, outlined parts of the organization's calendar. On Oct. 31, a discussion will be held on machinability computers; a plant trip to the Adamas Carbide Corp; and lastly a lecture on "Industrial Engineering" by Prof.

STUDENT CHOSEN BY HKN AS OUTSTANDING EE SOPH.

The 1955 Eta Kappa Nu Outstanding Sophomore Award was given to Irwin Krittman, EE '57, on September 21st. The presentation was made by Howard Hillman, Vice-President of HKN, at the opening meeting of AIEE-IRE. The award consisted of a P. and E. Log Log Pocket Slide Rule.

The award was initiated by the Beta-Pi Chapter of the Eta Kappa Association, national Electrical Engineering Honor Society, in



Howard Hillman (left) Vice-Pres., HKN, with Erwin Krittman

Fall, 1953," to mark in a fitting manner the most promising and deserving EE student". It was intended as both a recognition of the student's work during the first two years, and also as an extra incentive for the continuation of his work throughout the rest of his engineering study.

The Outstanding Sophomore Committee of HKN selected Irwin from a field of four candidates for the Spring, 1955 term. Irwin is currently the Corresponding Secretary of AIEE. He is Chairman of the Sigma Alpha Dinner Committee, and Co-Chairman of the City College Tutorial Society, sponsored by Sigma Alpha, the junior honor and service society. Irwin is also a reporter on the Tech News staff.

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SIX NEW INSTRUCTORS FOR TECH SCHOOL

This term 800 freshman engineers have entered the School of Technology. They came from high schools all over N.Y.C. ready to start anew here at C.C.N.Y. To some, because of older brothers or sisters, the grounds may look familiar. To others the girls may look familiar. But all I'm sure, have that tingle in their throat of hope and expectation that entering a new school brings.



Mr. Sinkoff (left) and Mr. Minor

Those 800 freshmen aren't alone with this feeling. Some of their instructors have it also. Who ever thought an instructor can feel nervous, anxious, excited about his first class wonder what it will be like, and what to say. But it's true!

This term the School of Technology has, in addition to the 800 entering freshmen engineering students, five new E.E. instructors, one C.E. instructor, and one M.E. instructor.

Mr. Sinkoff is one of our own alumni having been graduated from C.C.N.Y. in Feb. 1955, with a degree in B.C.E. As a student at C.C.N.Y., Mr. Sinkoff worked on the C.E. newspaper and Vector, belonged to A.S.C.E., Epsilon Nu Gamma, and was a member of Chi Epsilon, the C.E. honor society. When asked to comment on how it feels to teach at C.C.N.Y., Mr. Sinkoff stated, "It's wonderful to be able to teach fellow City men. In my experience in the engineering field, I realize the great value of the School of Technology at C.C.N.Y."

Mr. Ben Minor of the E.E. department is a twice graduate of C.C.N.Y. receiving his degree in Physics in 1950, and his Masters in E.E. in 1953. While speaking about the past, Mr. Minor recollected that the first class he attended here was in Townsend Harris High School in 1930.

Mr. Carl Shulman of the E.E. department, did his undergraduate work at M.I.T., and his graduate work at Princeton. He has worked in industry at the David Sarnoff Research Center for 13 years. Living in the country most of his life, Mr. Shulman is unaccustomed to the hustle and bustle of N.Y.C., but he says, "it's a fantastic place with great opportunities".

Another instructor added to the E.E. staff is Mr. Manson Javid who comes from Iran. Mr. Javid did his undergraduate work in England, at Birmingham University. He got his masters degree during World War II in Canada, at McGill University. He has been in this country two years, during which time he taught at Illinois U. His major interest is in the field of electronics.



Mr. Whele (left) and Mr. Javid

Mr. Whele, a graduate of City, has served in the tactical television corps. The purpose of this organization was to investigate the possibilities of using television for strategic purposes. Here at City, he can

be found in the Townsend Harris Electrical Engineering Laboratories, dextrously checking equipment. Mr. Whele is glad to see that the laboratory facilities are much better now than they were when he was a student here at City. He is also glad to realize that most of his one time professors are now his colleagues.



Mr. Shulman (left) and Mr. Zeiberg

In the M.E. department is another new instructor to C.C.N.Y. He is Mr. Seymour Zeiberg. Mr. Zeiberg is another prodigal returning home. He received his degree from City last year, and is now taking graduate courses at N.Y.U.

As are most returnees to City, Mr. Zeiberg finds himself lost in the maze of new buildings and names.

Good luck to all the incoming freshmen and especially to our new faculty members.

Gilbert Levitt

Electives

All students who expect to attend the College for the Spring term of 1956 are required to file Election Cards with the Registrar's Office, 115 Shepard Hall, no later than Thursday, October 13.

The normal number of credits to elect for the Spring term is 16; 17 credits may be elected if a C average is maintained.

JOIN YOUR PROFESSIONAL SOCIETY TODAY !

CIUDAD UNIVERSIDAD



Rocks being quarried for Construction

Gershon Furman EE, worked in the International General laboratory near Mexico City this summer. Of the many places he has seen, the new University impressed him the most.

On the southern outskirts of Mexico City in the lava valley near the non-active volcanic mountains, stand the new buildings of Mexico's National University (Ciudad Universidad). These vividly colored structures are built of basalt, aluminum, and glass.

This sudden jump from the old Spanish to ultra modern architecture is typical of Mexico's uneven development: bare-foot straw sombreroed laborers whose homes are primitive adobe huts were seen installing aluminum sheathing.

At the entrance to the university is a huge 100,000 seat amphitheatre, shaped like the



Library Building, the decoration are a primitive calendar

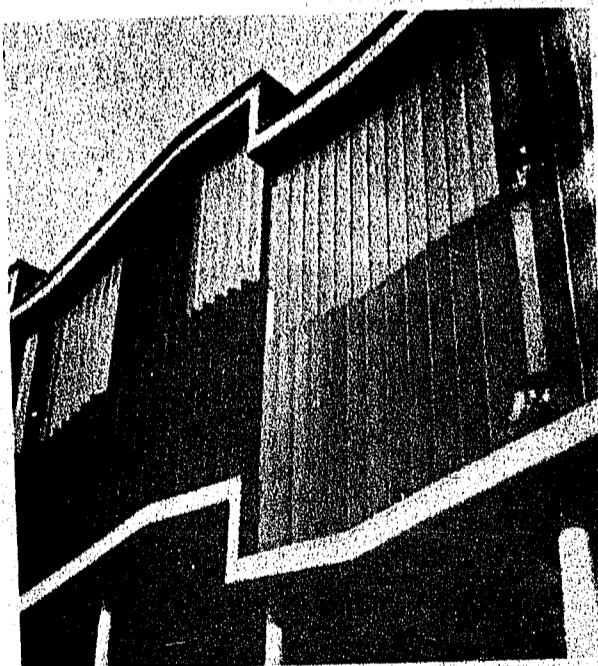
crater of a volcano. On its walls are gray lava reliefs depicting prehispanic Indian sports.

Farther along the road is a three-block long swimming pool with sinuous sides set in a grove of trees.

Across from the pool is the Engineering school: its two four storied buildings and laboratory surround a courtyard. The outside of the classrooms are of glass,



Fathers and Sons



Theatre Building, note modern window vents.

and the furniture of well designed aluminum. Each green wall board has a large parallel attached to it.

I sat in on an integral calculus class and found the curriculum similar to that of City College. Many of the students study architecture because there has been an increase in building activity and a great need for architects has arisen.



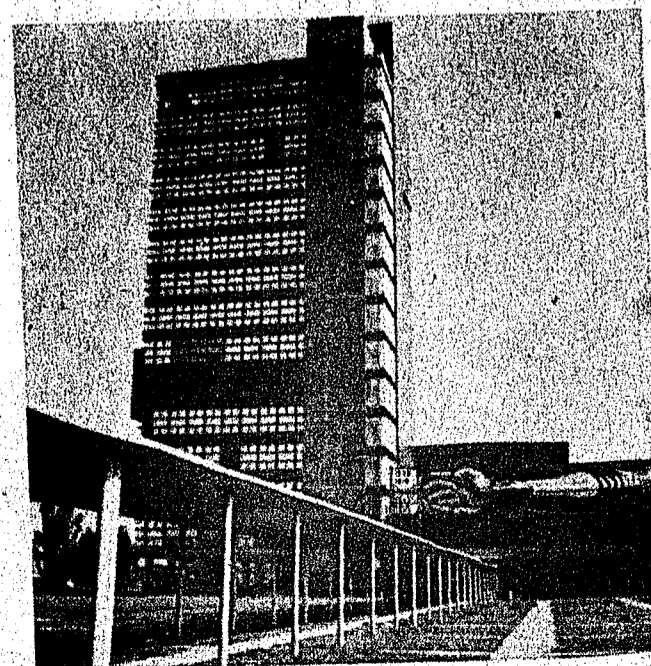
..and being carried to Building site

The twelve floor library building has mosaics on all four sides. The designs were first drawn by O'Gorman and then enlarged to scale with areas marked off as to color. The stones were first assembled on one meter square boards and then put together on the walls.

Some architects find fault with certain features, the three dimensional murals for example; but one thing is certain, C. U. is entirely new and will have a great effect on future designs.

The cost of C.U. has been high for a country of Mexico's size. Many have accused ex-president Aleman of erecting a monument to himself (a 40 foot monolith of him dominates the mall), but I'm sure that the boost of Mexican morale and education is worth the cost.

By Gershon Furman



The Administration Building with three dimensional murals

Why Chancellor Adenauer reads The Reader's Digest



"In my country more than 500,000 people read the Digest in German each month. And they read not only about the people of the United States, but about the people of all nations. The Reader's Digest has forged a new instrument for understanding among men."

In October Reader's Digest don't miss:

ALL ABOUT LOVE. How can we tell the difference between true love and physical attraction? Can we really fall in love "at first sight"? What makes us fall out of love? Scientist Julian Huxley brings you a biologist's view of our most complex emotion.

THOSE CAMPUS MARRIAGES. How do student marriages work out? Are young couples able to cope with studies and household chores? What happens when babies come along? Report on today's collegiates who promise to love, honor—and study.

19-PAGE CONDENSATION FROM \$4.00 BEST-SELLER: "MY PHILADELPHIA FATHER." Whether blue-blood Anthony J. Drexel Biddle was teaching judo to the Marines, singing a dubious tenor in opera, hobnobbing with pugilists or raising alligators in the house, he did everything all out—and then some. Here, told by his daughter, is the laughing, loving life of "America's happiest millionaire."

AMERICA'S TOP LABORITE: GEORGE MEANY. Life and beliefs of the man who may lead 15 million workers when the CIO and AFL merge.

**Get October Reader's Digest
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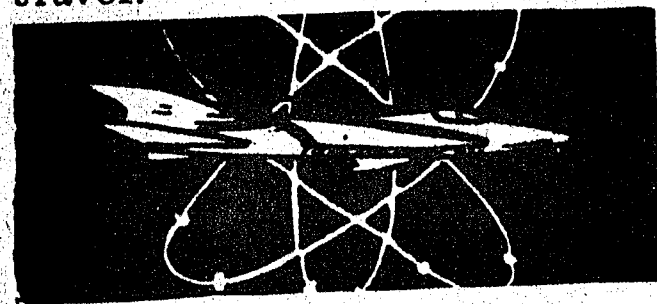
44 articles of lasting interest, including the best from leading magazines and current books, condensed to save your time.

INDUSTRIAL HIGHLIGHTS

ATOMIC PLANE A REALITY

Under the guidance of Dr. Andrew Kalitinsky, past Chief Engineer of the Nuclear Energy for Propulsion Project at Oak Ridge, Tenn., and the present manager of Convair Division of General Dynamics Corporation, the development of an airplane powered by an Atomic aircraft reactor is soon to be achieved.

General Dynamics, the builder of the first nuclear powered submarine, is now engaged in co-operation with General Electric, in the modeling of a B-36 for testing of an installed reactor in the mighty 200-ton bomber. At first, the B-36 will operate under its own 10 jet and piston engines, as the first tests are designed to determine whether a crew can safely ride in a plane which utilizes a power plant exuding deadly radiation. We can only speculate as to the outcome, but perhaps the development of atom powered planes is the key to interplanetary travel.



SOLAR ENERGY USED IN THERMODYNAMICS RESEARCH

These solar furnaces are utilized in the high temperature testing of metals, plastics, ceramics, and other materials used in aircraft and missiles.

The highly polished metal surfaces of the searchlight mirror concentrates the sun's rays into a focus of 0.3 inch diameter; temperature of about 7,000 degrees F. are produced at this point.

With a perfect parabolic mirror and ideal atmosphere conditions, solar furnaces can achieve temperatures in the proximity of 8,500 degrees F.—approximately 85% of the temperature of the sun's surface.

The immense heat at the focal point melts most common materials and even shatters some by shock.



Last term techmen participated in a large and varied sports program which included basketball and bowling leagues, a softball day, student-faculty softball games, and a handball tournament. Here is a synopsis of last term's highlights.

In the basketball league, ASCE, seeking its third straight sliderule championship, won its first three games to run its consecutive winning streak to fifteen games. However, in an extremely exciting final game, a strong AIEE team, rallied in the final minutes to defeat ASCE 44-40 to win their first sliderule title.

The TIIC sponsored bowling league also proved to be a tremendous success with a close race all the way. As in the basketball league ASCE held the lead by virtue of a seventy-two game winning streak, with ASME, AME and AIEE trailing close be-

hind. Again, the final week proved to be ASCE's downfall as ASME swept them in three games to win the championship.

Engineer's softball day drew a large, enthusiastic turnout from all the engineering branches. In two very exciting games ASME defeated AIEE, 7-6, and AICHE downed ASCE, 9-7.

The annual student-faculty softball game, as usual, provided much fun for all. The instructors proved to be no match for the students as the CE's won 11-2, and the EE's won 15-5.

In the coming year TIIC will again sponsor basketball and bowling tournaments, student-faculty softball and bowling games and another softball day.

Bowling will take place at the Bowlmore Alleys, 13 St. and 4th Ave. and trophies will be awarded to the high team and individual high scorers each evening.

JOB LISTINGS - JANUARY GRADS

Date	Company	Location	Degree
Oct. 17-18	Sperry-Rand Corp.	open	EE, ME, M, P
	Remington Rand Division		
Oct. 19	Allied Chem. & Dye	Buffalo, N.Y. &	
	Semet Solvay Div.	KY, & Ohio	ME, C, ChE
Oct. 24	California Oil Co.	New Jersey	ME, ChE, top 1/3
Oct. 25-26	N.Y. Telephone Co.	N.Y.	EE, ME, ChE
Oct. 25-26	Bell Labs.	N.Y. & N.J.	EE, ME, P, top 1/3
Nov. 9	Burroughs Co.	Penna, Mich., N.Y.	EE, ME, M, P

RAPPOLT...
Cont. from Page 1

City of New York. Outside employment did not discontinue with the commencement of teaching duties, however, for Prof. Rappolt only recently put aside his consulting duties which concerned the design of school buildings, industrial plants, and structural investigation.

This popular educator is Chairman of the General Faculty Committee on Intercollegiate

Athletics, the Executive Secretary of the Steinman Fund for needy students, and is active in many other organizations on and off the campus.

The students of engineering and also the faculty associating with Professor Rappolt feel that he is, in every respect, capable and qualified for the trying office of chairman of the Department. He is indeed worthy of the promotion, and we are very fortunate in having him with us.

AL A. GAROO



By Don Shaffer

Al doesn't seem to be in condition for class tomorrow, but after all the fraternity rush of smokers can't last all term and he is sure to sober up during tomorrow's Physics examination.

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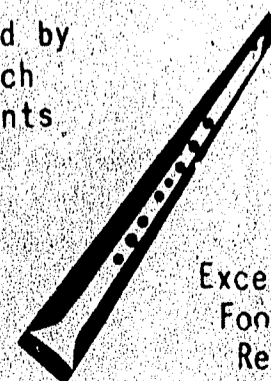
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