

TECH



NEWS

SCHOOL OF TECHNOLOGY

Vol. III No. 7

Monday, December 19, 1955

By Student Fees

WILLIG TO HEAD RICHMOND COLLEGE



Prof. Willig selected President of Staten Island Community College. School's operating costs to be shared by State, City, and students. Anticipated tuition \$125/semester.

The trustees of the State University of N.Y. and the BHE have chosen Professor Walter L. Willig, now Asst. Dean and Chairman of the Dept. of Civil Engineering in the School of Technology of the City College, to the post of President of the new community college on Staten Island. This selection parallels the appointment of President Theobald of Queens College from his post of Dean of the CCNY School of Technology.

Our own Prof. Willig has had wide academic and administrative experience. His professional work and the quality of his teaching have made him a prominent member of various professional societies, including the ASCE, the N.Y. State Society of Professional Engineers, the American Society for Engineering Education and Tau Beta Pi. Since 1950 Prof. Willig has had administrative charge of the graduate program of the School of Technology and of its coordi-

Continued on Page 5

GALLAGHER REAFFIRMS NEED FOR SOCIAL AWARENESS IN SCIENTISTS

COLLEGE PRESIDENT ADDRESSES TAU BETA PI AT INDUCTION DINNER

N.Y. Eta's intensive activities this term reached a high point at its recent induction dinner. It celebrated the initiation of its thousandth student member and the popular Professor Chameides. The banquet was graced with the attendance of several honored guests, including President Gallagher, Dean Allan, and Gloria Kingsly, President of Student Government.

President Gallagher emphasized that we "live in a world where a man must realize the social significance of any scientific endeavor". He noted "that an engineer must not live in the narrow sphere of experimentation for science.

Breadth of interest, and a deep understanding of the economic, social, political, and aesthetic spheres around us is a necessity in the individual who will create from pure science tools for mankind's use". He then told the members, both new and old, "that they received their membership, and keys as a recognition not of what they had done but what they would do in the future; and that they may accept his congratulations in that sense only".

Dean Allan related the history of the Tau Beta Pi Chapter at City, giving credit to Prof. Willig, its founder, and Prof. Pistrang, its advisor.

Leo Katz, the president of TBP, who was not born in the United States, said that only here has he found the freedom and right to rise to a position that was determined only by his capabilities, unhampered by class



President Gallagher and social restrictions. With evident feeling he proceeded to discuss the importance of the individual. He noted that in the striving for increased mechanization, the importance of the individual's development of his inner qualities is lost. He stated "that it is time to realize that the individual comes first, ...not in a narrow, egotistical sense, but in a realization that personal creativity will make for a happier and more genuinely productive personality". This he feels "would give life a real meaning".

Professor Chameides discussed the rewards a teaching profession offers. Discounting the tribulations facing a teacher he told of the satisfaction in knowing that one's passing along a part of himself to future generations manifests his desire for continuity many times in physical means. But the teacher derives deeper satisfaction from knowing that in creating an understanding in the pupil, he has done something lasting.

By Robert Berlin

TECH



NEWS

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RESPONSIBILITY...

One of the very important questions which have arisen this semester is: "What is the role of a campus newspaper?" As such a paper, we are vitally concerned with this subject. Our opinion, while idealistic, is an honest one; we believe that a publication exists to serve its readers.

Therefore, we feel that school organizations have a right to expect adequate publicity, and

the newspapers have a responsibility to the student body which pays for their existence. Moreover, any space which is allocated to personal feuds or appeals is wasted, at the expense of more valid material.

Tech News is guided by this opinion, and we think that this is the only way a newspaper can properly function.

CONFER ON NEW
TECH BUILDING

Plans for the new Tech building are undergoing new refinements. Since Thanksgiving, the architect from Lorimer and Pose, has been in almost daily attendance around the college.

According to Dean Allan this points up the fact that the blueprints are nearing completion. It is expected that specifications will be presented to the City very soon.

Present plans allow for six floors to the building with the main entrance leading to the second floor facing St. Nicholas Terrace. The lower two levels will be shared by the C.E. and M.E. departments, the M.E.'s taking the majority of the space with their heavier machinery. The main floor will be shared by the C.E. and Chem.E. departments. The second floor will be exclusively used by the Chem.E. department. The third floor will be shared by the E.E. and Chem.E. departments, with the E.E. department utilizing the fourth floor.

The building will house a Tech Library with a seating capacity of approximately 200 persons. There will be an audition and an escalator system starting on the Main Floor.

PLACEMENT OFFICE
REQUEST NOTICE

All January 1956 graduates are advised to make up their minds about the jobs they do or do not want, and so advise the companies they had interviews with. Students are asked to notify the placement office of their decision, including the following information: The companies they received offers from, the salary offered, indicate also the one accepted.

All students graduating in June and August are urged to attend the orientation meetings being held by Mr. Brenner. The final meeting will be held on December 22, at 12:30 in M 126, for EE's. All others interested should attend.

JOYCE KANE

The winner of the Tech Contest, News and state Alpha Omega Fraternity Joyce Kane '58, blue-eyed blonde, the Phi Tau Alpha is majoring in plans to teach when she graduates. The contest, M. Levin, had a first, to succeed to represent the WUS Miss second, to raise Muscular Dystrophy second and this was Barbara Boris.

Joyce will Miss World coronation the School of hoped that Tech lovely queen pockets while World University

WUS D

The World University is holding its 14th through all-out effort great number tions to col most worthwhile derived during used to improve facilities and of underprivileged students. A further develop interest among students.

Various events stimulate interest; there is a contest that is very exciting. December spark the auction of Alpha Rho, Dec. 21st, the society will sponsor a contest, a WUS show Aud., "Around and Dance", Randall, cu production A Miss World sponsored by on Dec. 20th

Monday, December 19, 1955

JOYCE KANE CHOSEN MISS TECHNOLOGY

CONTEST NETS \$30 FOR MUSCULAR DYSTROPHY

The winner of the first Miss Tech Contest, sponsored by Tech News and staffed by the Tau Alpha Omega Fraternity, is Miss Joyce Kane '58, a tall, shapely, blue-eyed blonde. A member of the Phi Tau Alpha Sorority, Joyce is majoring in Education and plans to teach elementary school when she graduates.

The contest, originated by Don M. Levin, had a two-fold purpose: first, to select a lovely CCNY coed to represent Tech School in the WUS Miss World contest and second, to raise funds for the Muscular Dystrophy drive. Close second and third in the contest was Barbara Breskin and Mary Boris.

Joyce will be entered in the Miss World contest representing the School of Technology. It is hoped that Techmen support their lovely queen by emptying their pockets while donating to the World University Service.

WUS DRIVE ON

The World University Service is holding its drive December 14th through 23rd. This marks an all-out effort on the part of a great number of campus organizations to collect funds for a most worthwhile cause. The funds derived during this week will be used to improve the educational facilities and living standards of underprivileged foreign students. A further purpose is to develop international understanding among students the world over.

Various events are planned to stimulate interest and contributions; therefore it is anticipated that the week will prove very exciting.

December 20th will serve to spark the activities with a WUS Auction of Promises by Sigma Alpha Rho, Rm. 348, 3 P.M. on Dec. 21st, the Webb Service Society will sponsor a pipe smoking contest; Dec. 22nd features a WUS show in Townsend Harris Aud., "Around the World in Song and Dance", with guest star Tony Randall, currently in the B'way production of *Inherit the Wind*. A Miss World Contest will be sponsored by CCNY organizations on Dec. 20th-22nd.



Joyce Kane Miss Technology

COMING EVENTS

Dec. 22: ASME Elections H 017
ASCE: Picture of Term's Events

Dec. 23: AICHE: Smoker and Student Paper

Dec. 27: AIEE: Plant Trip to Sperry Rand in Philadelphia

Jan. 5:
AICHE: Elections H 103
AIEE-IRE: Elections S 306
SAE: Elections H 017

Jan. 12:
ASCE Elections

STUDENT LIFE TO DISTRIBUTE REPRINTED IN ARTICLE TO FRESIMEN

Mr. Zades of the Department of Student Life has informed Tech News that an article concerning the vital importance of non-technical courses in the engineering curriculum which was published in one of our last semester's issues has been selected for distribution to the CCNY Freshman.

The article entitled "A Matter of Life and Death", is being multigraphed and distributed at freshmen assemblies. Mr. Zades feels that this article stresses an important part of the new students' education and should be absorbed by all future engineers. In this manner he states they will be enabled to approach their liberal arts sequence with a firmer understanding of its purposes.

TECH -ROADS

A TOUGH JOB WELL DONE

It is inherent in the operation of a department like Student Life, through its consistent close contact with the student body, to suffer much abuse. This term with the movement to the Finley Center, the job of satisfying everyone by supplying adequate facilities—whether there is sufficient equipment or not—is a difficult one. The administration has received much criticism because of many so-called inefficiencies of the Center's operation. It should be remembered that this to a great degree can not be helped as they are simply trying to comply with the numerous immediate overwhelming requirements at the Center.

We of Tech News appreciate the situation and feel that it is about time someone said thank you to Dean Peace, David Newton, and Stamos Zades for a tough job well done!

WINTER BLISS

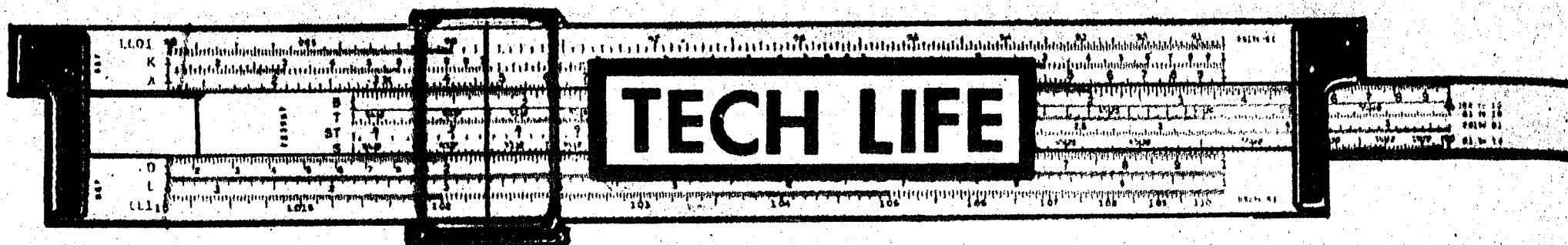
Robert Fischel, E.E.; Jan '56 announced his engagement to Ruth Udelsman, graduate of Queens College.

Arnie Ockens, E.E. '56 member of Tau Beta Pi and HKN, announced his engagement to Myrna Weinstein.

Rounding out the trio is our own Jerold P. Goldberg, Jan. '56, Editor-in-Chief of Tech News, who quietly made mention of his recent engagement to Sandra Glicker, June '56, Pre-Med. student at CCNY.

FAMOUS DESIGNER SPEAKS

Raymond Loewy, known in the Technical World as the "Father of Industrial Design", spoke before the Tech School at a meeting sponsored by TIIC, in Doremus Hall on Dec. 15th. He illustrated his lecture entitled "Automobiles of the Future" with slides showing many daring proposed changes in styling the modern auto.



ASTE VISITS HOMELITE CO.

On November 11, 1955 ASTE visited the Homelite Co., manufacturers of chain saws, generators and pumps.

The group of 20 students and Profs. Tracy and Vincze were conducted on a tour which followed the production of a hand saw from the development stage to final shipping. Each department head depicted the role his department played in the manufacture of the saw.

Some of the highlights of the tour were in the production department. There of particular interest were the many safety precautions used in the machining of the combustible magnesium castings. It was pointed out that there is a direct hook-up within the factory to the main Fire Dep't; and even if a hose is just lifted, the Fire Dep't is thereby notified.

At the conclusion of the tour Mr. R.C. McDonald, Vice-President in charge of manufacturing told a little about the history of the company; how it started as a hobby to become a leader in the small gas engine field. Particularly interesting was the lecture by Mr. William Reber, Chief Tool Engineer, on the design of a new product from the idea to the production phase. Used for illustration purposes was a die casting of a crank case. An initial sand casting is made for experimental and research purposes, after which a single die casting is made. The cost for the new mold was \$25,000. After this part is die cast, to insure proper performance, there are 19 additional machining operations.

The general consensus at the end of the tour offered an interesting comparison between the theoretical and the practical applications of industry.



**GOOD LUCK
on
FINALS!**

PETRO - CHEMICALS DISCUSSED AT AICHE MEETING

On December 1st, the AICHE featured Mr. Olmsted of National Petro-Chemicals Corporation, who gave a lecture about the overwhelming number of substances made from petroleum and natural gas, known as petro-chemicals.

In this country one percent of crude oil and natural gas is used to produce petrochemicals. This apparently small figure accounts for the production of 24% of all chemicals made or 30 million tons yearly. Thus it is not surprising to find that a host of industries, such as the textile, the plastic, and the automobile industries benefited from petrochemicals. We could not have had our powerful cars today had it not been for improvements and reduction in cost of gasoline, fuels and tires, made pos-

sible through Petrochemicals. Just imagine the performance of your new sports car without tetraethyl lead in your gasoline or without anti-freeze in winter.

The production of petrochemicals stems from about half a dozen raw material, the C-1 to C-4 hydrocarbons mainly. Methane is used as a source of hydrogen and as the raw material for making methanol, chlorinated hydrocarbons and HCN. Ethylene, made from ethane and propane, is used to manufacture ethyl alcohol, ethylene glycol (permanent anti-freeze), polyethylene, styrene for synthetic rubber and ethyl chloride for TEL. Propylene's largest use is iso-propyl alcohol, with synthetic glycerin on the rise.

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THIRTY

JEROLD P. GOLDBERG, EDITOR-IN-CHIEF, FALL 1955

I have had the privilege of growing with City College. A growth from the dreary halls of Finley and Army Hall to the spacious South Campus, from cramped libraries and laboratories to a realization of a modern Tech Building and Library. Yes, these have been the privileged years, but if I may, I should like to talk about one of the problems that has developed with our steady expansion.

The strong shift in enrollment into the Engineering School has stimulated many so called Liberal Arts spokesmen to adopt a rather curious way of thinking. These immature student leaders rather than recognize the attributes of their own and the Technical Education have created a label for the engineer. They continuously maintain that it is fashionable to insinuate that the CCNY engineer is un-integrated, is uncultured, is uncouth, etc. etc., and so on onto infinity.

It is time for the sensible recognition by both the engineering and arts student of the inherent advantages in both educational systems. The Liberal Arts education carries with it the factor of the general development in depth of the individual. This naturally occurs through contact with varied academic experiences and (most important) association with fellow students of varied interests.

However, because of a failure to associate with a considerable number of tech students, the arts major finds himself apathetically allowing the creation in his mind of the engineer as the "slide rule pushing automaton". To those who do not know better, this stereotype seems reasonable. After all, the Tech student does tend to be more academically minded. On the other hand the advantages of the Technical curriculum lies in its rigorous nature. Effectively a method of *critical analysis* is developed which cannot only be applied in the approach to scientific problems, but in living as well and in the ability to make firm logical decisions. The very nature of this leads to the development of the mature mind.

Now under the same situations the Tech student forms his stereotype of the Liberal Arts major. This individual who inhabits the greener pastures of the South Campus is of course of a "flippant sort" whose object is to have a good time at college doing as little serious study as possible. Thus the opinions form, the "slide rule pusher" and the "social bee", along for a four year college joyride.

Most assuredly we of the Tech School realize the limitations of our curriculum. However, a number of the arts students seem to be embroiled in a jealous fear of being engulfed in a world which today recognizes the engineer as one of its most valuable citizens. They band together and through their incessant clamoring create friction between schools.

Are we not all City College students, why drive us asunder!?

Our present curriculum can be advantageously revised. The Humanities and Social Studies courses, which are superior to the regimented History and English Literature subjects now being taught to the Liberal Arts student, should be made the basic sequence for all students. Elimination of the arts subjects which are repetitious and should have been learned in High School would remove the present distinct segregation of students. In a new basic sequence taken together the root of the dissension between schools can be eliminated and the full development of the student body through the association of all its members can be achieved.

In short the quality of all the students of CCNY, members of one of the greatest institutions of learning in the world through a reaffirmed strength and **RESPECT FOR EACH OTHER** will soar to even greater heights.

Well I have had my fling; I've imposed upon you long enough and now it's time to say goodbye to my fellow students, the members of my staff, to my fine instructors, who have labored hard to make me a

A.I.E.E. HOLDS STUDENT-FACULTY CHESS TOURNAMENT

Thursday, Dec. 1, marked the first student-faculty chess tournament. The event was sponsored by AIEE-IRE and more are expected in the not too distant future.

The faculty was represented by seven men (Brenner, Eitzer, Hunt, Javid, Politis, Schillinger and Stein), as compared to ten for the students (M. Arm, W. Arm, Bock, Freides, Globus, Klugman, Maleh, Schniebolk, Schore, and Shapiro). In all, 12 matches were held resulting in a 6-6 tie. The only player to win two games was Moses Arm, who did so with a great display of mental dexterity.

Refreshments were served and an enjoyable evening was had by all.

WINNERS

FACULTY WON		STUDENTS WON	
Brenner	1	M. Arm	2
Eitzer	1	Bock	1
Hunt	1	Globus	1
Politis	1	Schore	1
Schillinger	1	Shapiro	1
Stein	1		
	6		6

PROFESSOR WILLIG ...

Continued from Page 1

nation with the other graduate programs under the Board of Higher Education. At the request of the Board, Prof. Willig with the Hon. Arleigh Williamson, Staten Island member of the Board, surveyed the needs and desires of Richmond's high school graduates. In April, 1955 they reported their findings with a proposal for the establishment of a college as part of the State University community college plan, which calls for cooperation between local communities and the State.

better man, and to these walls about us whose spirit I shall never forget. Goodby City and thank you for allowing one of your sons to acquire an education that if not for you would never have been possible.



THIRTY

ANNE RUTKA, FORMER MANAGING EDITOR

CCNY has been for me perhaps the most profound occurrence in my life. My reasons for coming to college were the same as those of most others - an innate desire for knowledge - the hope of a better job - the experience alone.

Here at CCNY you find the greatest cross section of people to be found at any college. Such surroundings were strange to me and it took the better part of two and one half years before I "found" myself, and then a college education began to mean something to me. To add to the general freshman mayhem I was an engineer - a noble profession to be sure - but I belonged to that peculiar category - the female engineer. Since the question "What made you become an engineer?" has been put to me so many times let me answer it here and now, once and for all.

I wanted to become an engineer for exactly the same reason that just about every other tech student does - I loved math and science, and mechanical devices fascinated me. Ergo engineering seemed a logical answer; it spelled for me the chance to be part of an ever growing and interesting profession. Contrary to a popular trend of thought, women engineers are not characters out of Wagner operas or creatures from the upper Amazon who plan to spend the rest of their life mixing cement mortar and who have already specified that a sliderule replace the traditional lily in their palms when they are finally laid to rest.

Much has been said about equality of the sexes. Equality is fine as far as it goes. I believe that if a woman is capable of doing a job usually held by a man she is entitled to the same recognition and privileges. I have encountered my share of stubborn males who would resign all women to the kitchen and deny the simple souls any intelligent development. To them I have but one thing to say - beware gentlemen, lest one day you find some arsenic in the stew that comes forth from that kitchen.

It seems ridiculous to me that any girl should choose a liberal arts career solely for the reason that it is a "girls" job. There are innumerable aspects of engineering for which women are well suited. I cannot see, however, the reason for any woman surrendering her femininity; there is simply no need for it. I just as most other young women hope to be married someday. I consider it the greatest privilege in life to work with God in the creation of a new life. But you also have the right to follow things that interest you no matter how "different" they may seem to most, and this in no way contradicts your basic nature.

CCNY has been the instrument which has helped me realize my ambition to become an engineer. I have little quarrel with the calibre of education I have received here. At the risk of being repetitious let me say that much of what you get out of college is directly proportional to what you put in. The figure that stands before the class has quite a bit to do with it also. I'm sure each one of us has had truly inspiring profs. Certain of these instructors stand out in my mind - the one who had enough faith in the integrity of the student to give exams on the honor system - the one who looked within himself for the answers when students had difficulty under-

SOCIETIES SEE DANCE RECITAL

The recent program of Hindu and Modern American dances sponsored by Tau Beta Pi well rewarded the 125 City students and outside guests, who filled Townsend Harris Auditorium. Praiseworthy performances were given by Indrani and Miss Carol Bondy, who thrilled and entertained with such numbers as the Hindu "Invocational Fire Dance", "Radha Dance", etc. and the American "Serenata" and "Passional". Both artists generously gave of their time and talents.

After the final strains of music had died away and the last pulsation of dance had ended, the audience took advantage of the discussion period to besiege the two dancers with questions. It was brought out that modern dance was a very personal and abstract movement to express feelings, emotions and ideas, while Hindu dancing drew upon the philosophy of Hinduism, to find the goals of life.

standing a point - the one who had the patience of a saint even though at times he bellowed like a monster. The bad ones have left their impression but I prefer to think they merely contributed the necessary bitter to the sweet.

The thing that has made me grow as a person is the extra curricular activities of which I have been a part. I have been fortunate enough to work with some of the greatest guys anyone could hope to know. They have made me feel welcome - one of the crew - and yet always respected. Words here seem very inadequate; for to them I am eternally grateful and I value their friendship most highly.

Now the time approaches when I must bid farewell to all this. I would not change a single moment, each has had its lesson and I think I am a wiser person for having learned them.

David following years at Technic and edit book and the Isra

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ISRAELI TECHNICAL EDUCATION

David Sabih, the writer of the following article studied three years at the Technion, the only Technical University in Israel and edited its newspaper, year-book and various publications of the Israel Student Union.

The Technion was established in 1912 with funds contributed by Jacob Schiff, but due to World War I did not open its doors until 1924. From an initial enrollment of 30 students the Technion today offers courses in M.E., C.E., Ch.E., E.E., A.E., Agr.E., Architecture and Sciences to a student body of 2329 students.

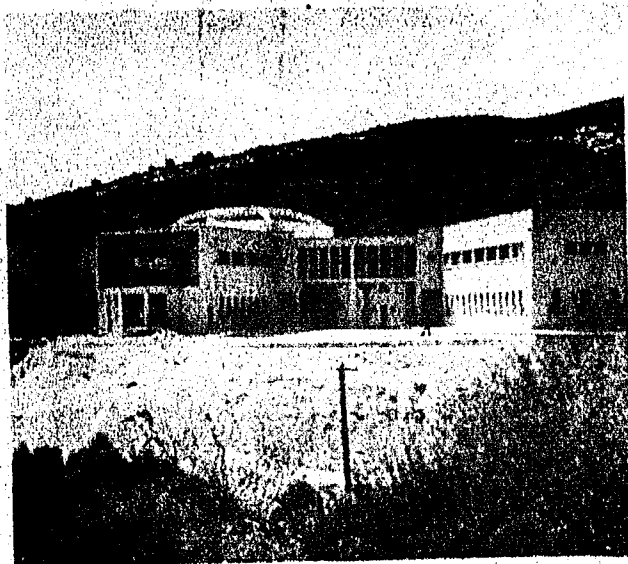
Being situated in a new nation exposed to unlimited immigration, developing its industrial and agricultural resources, the Technion's vital importance is self-evident. Apart from the few engineers who have immigrated, the Technion is the only supplier of engineers, who are immediately absorbed into the nation's economy. The Technion is organically linked with the rebirth of Israel, both in the fields of industry and agriculture as well as that of security, i.e. light arms' manufacture and heavy military repair work. Indeed, had it not been for our country's technological superiority we could not have continued the battle of so few against so many.

The revival of modern Hebrew owes much to the Technion, for it has offered its more than two hundred technical courses in Hebrew, thus adapting this Biblical and most ancient language to the terminology of technical and scientific terms.

Intended originally to accommodate 300 students, the present 2329 students would suggest overcrowding, to say the least, and since there are plans to admit 600 students every year the need for a new campus is being met with the Greater Technion. In 1952 the American Technion Soci-

ety and its many friends in the free world have been engaged in raising a \$20,000,000 capital fund, of which \$5,000,000 have already been contributed and five of the buildings completed. The Israeli government has provided 1500 acres of land on the slopes of historical Mt. Carmel overlooking Haifa Bay.

Among the members of the senior teaching staff are scientists and engineers of worldwide renown, who have held high positions in the U.S. and other parts of the world. Outstanding among them is Professor Sidney Goldstein, who is rated as the world's foremost aerodynamicist and previously served as chairman of the British Aeronautical Research Council. Professor Franz Ollendorf is recognized through-



Technion Aviation Building

out the world for his outstanding scientific papers on electronics, while every advanced electrodynamics' student is familiar with the famous Ollendorff formulae. Amongst those from America are Professors Nathan Rosen (nuclear physics, assistant to Albert Einstein), Markus Reiner (founder of Rheology which is science of solid's flow, of Princeton University) and Dr. Lowdermilk (UN expert on irrigation).

An indication of the Technion's standards may be obtain-

ed from the fact that it only admits 300 students every year, who must present calculus and higher algebra for admission. The Institute emphasizes chiefly theory, in fact, second year courses already include the Theory of Relativity and Maxwell's Electromagnetic Theory. The teacher is merely expected to deliver the subject matter in lectures, thus inciting the student to consult many different textbooks and to develop his real knowledge and deepen his fundamentals.

The Technion's students are governed by their own Association, the power of whose authority was shown when in 1954 it successfully called a general strike against the administration and the Government until its demand for increased financial funds were fulfilled.

The Technion community is inspired by the challenge of integrating hundreds of thousands of immigrants, of developing atomic and solar energy, and making its creative contribution to the well-being and peace of the Middle East.

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TIIC SPORTS PLAQUE UNVEILED

The Technology Intersociety Interfraternity Council proudly unveiled its Sports Plaque in



TIIC Officials, Bernard Roth and Joseph Heindl unveil Plaque.

Goethls Hall on Friday, December 9th. The plaque mounted in Cross-roads symbolizes the competitive athletic spirit which has made the TIIC Bowling and Basketball Leagues so successful. It was purchased by TIIC on behalf of its 19 member organizations whose combined membership encompasses over 1800 engineering students.

CLASSIFIED ADS

Student Advertising rate: 4 cents a word. Inquiries may be addressed to Tech News, Box 12, and left in the College Mail Room, (121 Main Building).

NEED HELP? FOR HELP IN PHYSICS OR MATH. CALL NI 8-3086. PRICED REASONABLY.

ASME WINS BOWLING TOURNEY

ASME took this term's TIIC sponsored bowling championship by just edging out ASCE and AICHE. The final standings are as follows:

	WON	LOST	%
ASME	16	5	.763
ASCE	15	6	.714
AIChE	14	7	.668
SPO	9	12	.428
ENG	9	12	.428

Members of the ASME team, all of whom will receive a bowling trophy, include Marty Novack, Vince Antonetti, Bob Herner, Marty Lerner and Stan Reines.

Here are the important statistics from this season's play. Individual high three games:

1. Stan Fafinski	577	ASCE
2. Marty Lerner	527	ASME
3. Marty Novack	513	ASME

Individual high single game:

1. Stan Fafinski	242	ASCE
2. Marty Novack	212	ASME
3. Bert Langfur	207	ASCE

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