

## Tech Carnival to be Held Friday, Feb. 27

### Frosh Entertainment, Sophomores - Faculty

On Friday, February 27, the walls of Alden Memorial will echo the laughter of those who will be attending the annual Tech Carnival. Paul Huner will emcee the contest between the Freshmen and Sophomores when they compete for the best skit of the year at Tech. As usual, the faculty will present

skits during weeks of their stay in the crowded rooms of Sanford Riley Hall. As time goes on, the rooms become less crowded and they begin to indulge in many diversified recreations to forget their studies. Brian O'Connell, Pete Martin, Paul Cultrera, Paul Sharon and Vic Castellani will bear the brunt of the major roles for the Freshmen.

The Sophomores, under the direction of Hal Jurst, will present a skit that follows the trend of many Television

## To Be Used By All Tech Departments

Plans for the installation of a pool type reactor at Worcester Tech are proceeding at a rapid pace. The contracts between W.P.I. and General Electric have recently been completed. At present it appears that the reactor will be installed and ready to operate by September, 1959.

The program to be employed is under the supervision of a committee consisting of Prof. Zwiep of the Mechanical Engineering Department, Prof. Hildebrand of the Physics Department, Prof. Kranich of the Chemical Engineering Department, Vice-President Van Arsdale, and Dean Price. Prof. Wilbur, in charge of the facilities, stated that local firms would handle much of the necessary work on the project. A portion of Washburn Shops will have to be reconstructed to accommodate the reactor. Francis J. Harvey and Sons Inc. will be rebuilding the area involved. All but the finishing touches should be completed during the summer.

It is the plan of the committee that all degree granting departments shall reap the benefits of the nuclear reactor at W.P.I. The courses will primarily concern the graduate program. However, there will be several courses available to undergraduates including practical laboratory applications in addition to the theoretical work. It is hoped that in the course of four years undergraduate study that everyone at W.P.I. will have an opportunity to observe the reactor in laboratory work.

With the installation of a nuclear reactor, W.P.I. will have achieved another milestone in its development program; coupled with the competent personnel of W.P.I., the Nuclear Program will be a valuable asset.

## NEW COMPUTER IN STRATTON

Through the magic of electronics and the salesmanship of IBM, the basement of Stratton Hall now echoes the buzz of the math department's newest innovation—and IBM 610 automatic-decimal point computer. The computer, which is rented on a yearly basis from IBM, has resided at the Institute for one month and is already being utilized in excess of forty hours a week.

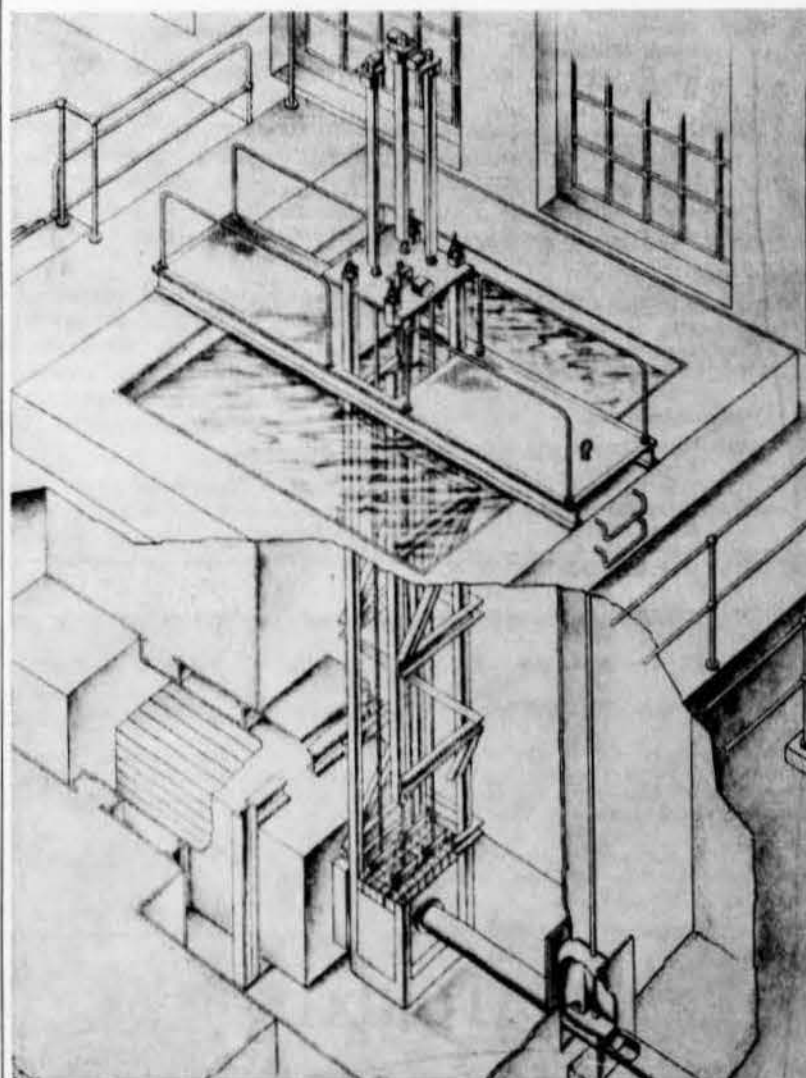
Operating on over 250 tubes, it can multiply two thirty-one digit numbers in three-quarters of a second.

Data may be entered into the computer manually by use of a keyboard or automatically from punched paper tapes or a control panel. A high-speed electric typewriter, operating at eighteen characters per second, provides printed, numerical output. The computer is extremely versatile in that different control panels can be inserted in it to perform an unlimited variety of operations.

Professor Buell is conducting an abbreviated basic course for graduate students and faculty on operating the computer. An advanced course will also be offered.

The 610 is open to the use of all departments, graduate students, and to undergraduates if under the direct supervision of a competent operator.

# REACTOR TO BE INSTALLED BY FALL



Pool Type Reactor

## BOARD OF TRUSTEES HEARS PROGRESS REPORT FROM PRES.

The Worcester Polytechnic Institute Board of Trustees held their winter meeting on Saturday, February 14, in Alden Memorial.

The trustees were told by George W. Smith, Jr., board chairman of DeLaval Steam Turbine Co., that four and one-half million dollars has been raised towards the college's development goal of five and one-half million adopted in 1956. Smith, general chairman of the development program, said that rising costs indicate the goal may have to be raised to six and one-half million dollars to complete it. Unprovided for as yet are a library, field house, renovation of the Salisbury Laboratories for chemistry and chemical engineering and half the needs for the graduate study program.

It was also reported that Morgan Hall, the new dormitory, is occupied; Olin Hall of Physics is under construction; and modernization projects have been completed in Sanford Riley dormitory, Alumni Gymnasium, Stratton Hall, Riley House, and on the campus grounds. The former foundry has been converted to a central maintenance headquarters.

President Arthur B. Bronwell in his report to trustees had the following to say, "The faculty and trustees are keenly aware of the growing national urgency for scientific and engineering education.

"During the last four years, the Institute has undertaken a vigorous program of expansion, not only of its buildings and facilities, but also of its enrollment and its educational programs in an effort to do its share in helping to alleviate the critical national problem.

"The undergraduate enrollment of 1068 students has increased 45 per cent in four years. This has placed a very severe strain on the facilities and has necessitated recruitment of twenty-four new faculty members.

"The enrollment in the daytime graduate program for the first time and a new undergraduate program leading to the bachelor's degree in mathematics is offered."

A recent national survey shows that undergraduate enrollment in engineering in colleges and universities for the 1958-59 school year showed a drop of 4.4 per cent compared with the previous year. A similar comparison of freshmen enrollments in engineering showed a drop of 11 per cent.

President Bronwell further stated that, "despite these national trends, the number of undergraduate student applications at Worcester Tech are currently six per cent higher than a year ago and the Institute is experiencing no difficulty in obtaining highly qualified students."

His report indicated that the job opportunities for placing all students wishing positions are very good.

President Bronwell also said, "Comprehensive studies have been undertaken of the entire undergraduate and graduate curricular programs with the view towards strengthening the basic sciences, of expanding the humanities and social science offerings."

This enlarged educational program has necessarily committed the Institute to substantially increased costs, but it is urgently needed to meet the serious national threat and to serve the educational

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a skit which is sure to be the best of the evening. Then, to complete the evening, there will be dancing to the music of the Hi-Fi's. The price of admission has been set at one dollar for those who go stag. For those who want to make the evening complete by bringing a date, the price will be a dollar fifty.

Rehearsals will begin Monday, February 16, in Alden Memorial, when the Freshmen go through their roles for the first time. Fran Goddu, chairman of the Freshman skit, has written a comedy which depicts the Freshman migration to Tech in the early Fall and the en-

tertainment for the evening. Norman Ginsburg will be narrating the work of Hal and his co-author Larry Israel. Mark Britansky will be one of the many displaying their acting skill when the Sophomores begin their rehearsals on Tuesday, February 17.

The two classes will be competing for the Tech Carnival Cup presented by the Student Service Council of the Tech Senate to the class whose skit is the best original comedy. Coupled with the Faculty skit, and the dancing, the program is guaranteed to provide fine entertainment for the evening.

## U. Mass Dean Speaks to Group

George A. Marston, dean of engineering at University of Massachusetts, was guest speaker at an informal discussion type meeting held on February 13, in Boynton for those students who might be interested in teaching as a career. The meeting was one of the series, sponsored by Dr. Zimmerman of the Economics Dept. with the assistance of Prof. Grogan of the E.E. Dept. and Prof. Scott of the M.E. Dept., designed to encourage the undergraduate student's interest in the teaching profession. As has been the case with previous meetings, many interesting questions were asked the speaker, and a lively and thought-provoking discussion ensued.

Dean Marston spoke on engineering education as a career. He pointed out that a man might not be interested in teaching now but might very well decide later that this profession was just the right job for him. "Interest in subject matter is the primary factor to be considered when trying to decide," explained the dean. "If you are going into college teaching you should be enthusiastic about subject matter." He further stressed the importance of individual effort and initiative on the part of those desiring to become teachers. The dean admitted that the yearly starting pay scale of a man in industry could not be

matched by the teaching profession. However, he contended that there was not as much difference as most people tend to believe and that opportunities for summer employment made it possible for an instructor to come fairly close to his counterpart in industry. He closed his speech with the remark that the teaching profession can be most rewarding with the instructor often taking more satisfaction in the achievement of his pupils than in his own attainments.

Dean Marston was well qualified to speak on education. He was graduated from Tech in 1930, received a professional degree here in 1940, and was recipient of an honorary doctorate degree from W.P.I. in 1958. In addition he has received his master's degree at the University of Iowa, and has done much research and consultation work.

Since the institution of these discussion meetings on teaching there has been a steady rise of interest in them on campus as evidenced by the growing attendance of interested students, underclassmen and seniors alike. All the meetings are of the informal table discussion type and free opportunity is given to all to ask questions or otherwise express their opinions. Those who have even the slightest bit of interest are urged to attend the next meeting as it may prove well worth their while.

# TECH NEWS

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During the College Year by

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## EDITORIALS

# Why?

Do the foolish antics of the class jokers end after High School? Does the enlightenment of facing this cruel world and its problems reach one's mind before entering the colleges and universities? Is one mature enough to realize the differences between right and wrong and does he have a sense of duty when reaching the age of the college student? I don't think so. That is, I don't believe that these questions could be answered by the affirmative for at least half of the persons falling into the prescribed category. In that half you'll find the jokers and smart alecks, the unadjusted individuals, those with the "I don't give a darn!" attitude, and worst of all, the cheater. . . . The CHEATER. Yes, I'm speaking truth. Many of us have been and are aware of the fact that cheating has been going on for a long time. Can we face the fact, however, that not only has it been resorted to on quizzes and exams but also on final exams. How can one instill in the guilty the fact that such acts are extraordinarily unethical and can lead to extreme penalties such as expulsion from school—EXPULSION? Some possible suggestions are for the administration to release some kind of publication explaining to the students the rules of the institute concerning such matters; friends can helpfully talk to them regarding their plight and try to encourage them to stop immediately; if necessary someone may directly inform an instructor about anyone who has been cheating. I'm sure however that no one would, as the common phrase says "squeal" on a friend or fraternity brother or for that matter on anyone. Everyone seems to be, instead, very submissive to the whole thing. In fact some are even proud of the fact that they can get away with it. Remember, gentlemen, one of these days it's going to entrap you and you'll be setting the example for the rest of your cohorts. If you can't face the responsibilities now, while attending school, how will you ever be able to face the many more problems and situations that will so very often arise in industry or elsewhere.

What can the respective teachers do about the exigencies that are becoming more realized by the student body itself? They could do away with the semi-honor system and strictly proctor a group during exam time and they can take it upon themselves to actually severely punish a guilty person instead of just reprimanding him. But this isn't necessary, it shouldn't have to be necessary. In fact none of the suggestions mentioned in this entire writing should have to be necessary. The only sure way to end cheating is for those dominated by the desire to take it upon themselves to do more studying and less "socializing" and to fill their own minds with the advantages of being honest.—L.C.V.

## On Fraternities

According to information available, we have just completed one of the worst terms in the history of Worcester Tech. There were more term failures, especially among freshmen, than ever before.

The causes of this situation may be many and varied. However, the freshmen are blaming it on the fraternities. They contend that with pledging so early, they were made slaves of their fraternity brothers for virtually the entire term, and so were prevented from studying as much as they should have. This obvious attempt to justify their plight has fallen upon the ears of some members of the faculty and administration who are not familiar with fraternities and especially, fraternities at Worcester Tech. A general acceptance of this theory could have serious repercussions upon the fraternities.

As fraternity men, we realize that fraternities can and for the most part do provide a great source of scholastic help. Perhaps, however, this assistance has not been passed on to the freshmen to the degree that it could be. There is a big task to adjust to collegiate life. Most of us have been through it and, therefore, can sympathize with their situation. We, as upperclassmen and fraternity men, are in a position to help the freshmen from what is obviously a dangerous predicament. Perhaps this could best be accomplished by taking a closer look at the scholarship program of our respective fraternities. And in so doing, we will be doing a great service to the fraternity system by proving to the faculty and administration that membership in a fraternity is not a hindrance, but a help to the scholastic and social adjustment of Freddie Freshman.—B.E.S.

## An Invitation

An important part of the function of any college newspaper is to present the views of the readers to the entire student body. The most effective way for the students and the faculty to do this is through "Letters to the Editor."

In the past, Letters to the Editor have been so few and far between as to be essentially negligible. Perhaps this suggests a lack of interest among the students in that which affects them most. We would prefer to think that this was not so and we would like you to prove it to us.

One hears plenty of complaints about various things on campus, but unfortunately, these complaints almost never reach the right ears—they stay within your own group of fellow sympathizers. One of the best ways to bring these things which "bug" you to the attention of the administration is through an appearance in the Tech News. Therefore, we would like to invite your comments, criticisms, gripes, etc. We will guarantee to publish them providing they are in good taste and contain no profanity or obscenity. They should be of reasonable length, typewritten if possible and signed. (Your name will not be printed if you so request.) Address your letters to: Letters to the Editor and put them in the Tech News box in Boynton Hall or mail them to the Tech News, WPI.

## LETTER TO THE EDITOR

TO THE EDITOR OF THE TECH NEWS—

DEAR SIR:

At about this time every year, high school seniors and prospective Tech applicants come to Boynton Hill for interviews and a glimpse of the Institute. These hopefuls number over a thousand, and as many as 25 may invade the campus in one day. The problem of seeing just what could be done to make these young men feel welcome as well as giving them an adequate indication of the facilities, opportunities, and activities here has been brought before the Student Service Council.

Because of the large number of these visitors, it is totally unfeasible to have the Student Service Council members, or the members of any one specific group, act as guides.

The Council, however, urges and encourages each and every member of the student body to make these individuals feel more at ease, by introducing himself and offering to them any assistance possible.

for the Student Service Council,

BERNARD TETREULT

JERRY GIBBS

## Campus World

### Amherst College

The faculty of Amherst College has authorized the administration to experiment with a plan whereby a year's leave of absence will be granted to students whose academic performances appear inconsistent with academic ability.

The purpose of the plan is to stimulate students to benefit more from their work and also give any students on leave of absence a chance to change their perspective with regard to what they want to gain from a college education. The program, it was pointed out, will not be used as a substitute for suspension or flunking. As in the past,

any student who fails to meet the academic requirements will be suspended. On the other hand, a student with even an 83 or 84 average may be asked to leave for the year if he has not been performing up to his potential.

At Amherst the student who is asked to leave will be encouraged to get a "change of place and pace (such as the Army or a job)." Readmission will be based on a subjective judgment of the administration. The program is expected to affect sophomores particularly, though the administration sources have predicted anywhere from 2 to 12 students from each class could be involved under this program each year.

### Williams College

The Williams College administration recently issued new limitations on fraternity hell-week activities. In addition to the non-degradation of pledges rule, established by the Board of Trustees last year, the following three specific rules have been added:

1. No hell-week activities, except in the case of community or college projects, may take place outside the fraternity involved.

2. No pledge may be required to devote more than two hours each day to hell-week activities.

3. No hell-week activities may take place after midnight.

The administration directive said that prohibition of hazing "is not intended to prevent the requirement by fraternities of legitimate pre-initiation activities from pledges. The basic principle in requiring these duties, however, is that they must be worthwhile in themselves."

Last year's non-degradation rule prohibited activities intended to worry, tire, or ridicule pledges; things which might result in injury or loss of time from academic work; and pranks which cause a public nuisance.

### Brooklyn Poly Tech

For the first time, Polytechnic Institute of Brooklyn is offering a course devoted to the contemporary intellectual ideas of Europe and the United States, according to an announcement by Helmut Gruber of the History and Economics department.

The course, "Colloquium Course in the History of Twentieth Century Thought," is an attempt to examine the philosophies, political theories, arts, esthetics, sciences and mass cultures of the modern world. Its primary goal is to acquaint the individual with the intellectual conflicts of the world.

"The reason for the introduction of this course," states Mr. Gruber, "is due to an increased trend in many technical colleges towards the offering of a larger amount of liberal arts courses. This trend is due to the fact that many industrial organizations would like their scientists and engineers to have varied fundamental education in addition to their knowledge of mathematics and science."

This two-credit course is offered to selected juniors and seniors. During the first eight weeks of the semester, six to eight books are read and thoughtfully discussed. The latter part of the semester is devoted to a critique of individual papers written by the students. These papers cover such varied topics as the welfare of determinism and free will in contemporary philosophies of science, existentialism, and the impact of mass culture on art.

## WPI CLUB NEWS

### ROTC Radio Club

The ROTC Radio Club has recently moved its equipment from the basement of Stratton Hall to the garage behind Riley House. This move was made to consolidate the radio lab and instruction facilities near the Military Science Department and in this way facilitate the club's participation in the Military Affiliate Radio System. This organization was established in 1948 to create interest, provide training, and coordinate the procedures and practices of military and amateur radio operations. The club participates under the direction of M/Sgt. McGilvray.

The station's equipment is capable of receiving and transmitting radio teletype, voice and International Morse Code. A new addition to the equipment will be a 10 and 20 meter rotary beam antenna which will soon be installed on two 70-foot poles behind Riley House. This antenna will permit high frequency radio communications.

Members of the club who frequently operate the station include James Sampson, Edward Gardner, Richard Freeman, and Arthur Kamlet.

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By Rhadamanthus Rhussell

The first term is now past and forgotten(?) and the Greeks prepare for a new social season with the formal winter weekends, the J.P., and innumerable parties. With the fun comes the work, preps, cramming, and exams.

On the day of Valentines the ATO pledges culminated their Informal Initiation, better known as "Help Week." Following a buffet supper and the basketball game, the pledges, out of gratitude for a stimulating week, presented the annual Initiation Party for the brothers. During the course of the evening, the neophytes demonstrated their "Pledge Machine" and put on a very amusing skit. The remainder of the party was spent in dancing to the house hi-fi. On Sunday afternoon the following pledges were initiated into the Tau brotherhood: Roger Strickland, Roger Chutter, Spencer Pooley, Walter Wadman, William Borla, Bruce Simmon, Kenneth Homon, Bruce Dudley, John Pitts, John Samborski, Willard Sweetser, Michael Rafferty, Neil Jorgenson, Paul Gelinis, Clifford Engstrom, and Raymond Jason. The initiation was followed by a banquet held at the Hickory House. Correction! Killer did not lose his Cadillac. He claims the Cadillac lost him.

The first few weeks at the P.S.K. temple have been quiet ones as getting back into the swing of things was voted top priority. A party was held with "the Girls" Friday night, however, and Saturday a joint "crush" was made with the Pi's at their pod. Bernie Lally and Skorna Lcean announced, finally, that Bernie had broken down and given away his jewel. Although no one else has confessed, it appears that P. J. Natale misplaced his also, at least that's what a little bird from the South says.

This past weekend Sig Ep held it's annual Sweetheart Weekend. It all started Friday afternoon when the girls took over 11 Boynton street as the brothers moved over to the annex. Friday night found the brothers and their dates dancing to the music of George Gregory out at the Hickory House, after having attended a tremendous banquet at the house. Saturday afternoon found the brothers and their dates skating out at the Worcester Girl's Club camp in Paxton. After attending

the Worcester Tech-Clark basketball game up at the gym, the Sig Eps, fitted out in all sort of attire, returned to the house for a jungle party. The basement of the house was filled with plants and vines, making it difficult to see and to drink that delicious Head Hunter punch which was served in real coconuts. The only outcast in the Jungle was one of New England's finest progressive jazz bands, Boots Mussulli from Milford.

It appears that the finals did little to mar the spirit of the Kap pledges, for, returning to the village they promptly challenged the brothers to—who has more ability in getting a date for a party—pledges or brothers! The challenge was put to the test at the Valentine Party held after the Tech-Merrimac basketball game. In the end the pledges had the better percentage in attendance; the result, an all-brother work party. This past Saturday evening an informal party was held after the basketball game, giving a respite before the "Hard Times" party this weekend.

At SAE, the brothers of the "Lakeside Lodge" continued the spirit of the mid-year recess, which was spent by many of them in the "Great State of New York." Appropriately, on Friday the 13th the brothers had a real swinging time with two Becker dorms, Colton and Morey. On the following evening, Valentine's Day, E. George Duane directing, the Greeks of 6 Humboldt St. held a "Purple Passion Party." During the evening a contest was held; the winner was Jack "Lover" McManus, who "nosed" out all other contenders. Also very noticeable at this party was the absence of Marty Beck's "Inner Tube." Rumor has it that Ed Stet is looking for a ride South for the coming vacation.

Congratulations were in order this past week for Ron Brochu who pinned Terri Brogno, and also to Brothers Bill Palmer and Ted Riley who returned to Tech after a year's leave of absence. Special congratulations were given to Pat Cueroni and Hank Brandt whose wives were visited by the stork . . . within the same week.

The dust from mid-term vacation being whisked from the "Halls of Theta Chi," the Theta Chi men returned to their studies, campus activities, and weekend social life. During

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## HONOR CODE

(Editor's Note: The following Honor Code submitted by the Honor Code Committee at Trinity College, Hartford, Conn., and taken from the Trinity Tripod, is published by the Editors of the Tech News, both for the general information of the students and perhaps as a suggestion to the administration and the Tech Senate.)

### Article One—Definition and Application

Section I. The Honor System is defined as the system under which any written exercise in the classroom is conducted without faculty surveillance, each student pledging himself neither to use nor give aid during the exercise, each student is also honor bound to report to the proper authorities any apparent violation of the system; and also as the system under which any oral or written exercise set by the faculty to be done outside the classroom is conducted without faculty surveillance, each student pledging himself neither to use nor give aid without due acknowledgment, each student also being honor bound to report to the proper authorities any apparent violation of the system.

Section II. While the Honor System does not forbid a student to leave an

examination room, it requires that he write his examination in the room appointed and that during period of examination a student shall recognize no other social, business, or personal interests whatever, except physical necessities. No man shall leave the building in which he is taking an examination, except for physical necessity. All discussions pertaining in any way to the examination shall be avoided during the period of the examination.

Section III. Every person enrolled at Trinity College as an undergraduate shall be subject to the Honor System.

### Article Two—Declaration

Section I. At the conclusion of every and all written exercises students shall write the following pledge:

"I pledge my honor as a gentleman that during this examination I have neither given nor received aid."

Section II. Upon submitting all written work, prepared and completed outside the classroom or examination room (i.e. term papers, lab reports, etc.), students shall be subject to article I, Section I, of this code.

Section III. At the discretion of the instructor, the declaration may be omitted in laboratory reports, essays, or papers, and in written classroom ex-

ercises; but in these cases it is understood that the rules of the Honor System equally apply.

### Article Three—Violations

Section I. Violations of the Honor System shall consist in any attempt to give or receive assistance of any kind, by writing on books, verbally or by any means whatsoever, in any exercise covered by this system, without due acknowledgment.

### Article Four—Enforcement of the Honor System

Section I. The Honor System shall be enforced by the Medusa.

Section II. Upon observing any and all violations of the honor system the observer shall procure a second witness. See HONOR CODE—Page 8

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## Job Interviews For Seniors Are Increasing

President Arthur B. Bronwell in his report on the recent meeting of the Board of Trustees of the Institute, and Mr. William Trask, Director of Placement have said that job opportunities have been greatly increased over last year. Of 214 men in the present senior class, all are expected to be able to find jobs before graduation. During the first term of this year, 66 companies conducted 1290 student interviews. There are eighty-eight companies who will be interviewing on campus in the February-March period. Employment opportunities seem to be more than keeping pace with student enrollment which has increased 45 per cent in the past four years.

Mr. Trask has announced the new recruitment sign-up schedule for seniors. Sign up between March 2nd and 5th for companies recruiting March 9th through 20th; between March 16th and 19th for companies recruiting March 23rd through 27th; between March 24th and 27th for companies recruiting April 6th through 20th.

Seniors should note that there are several changes from the original schedule. The new list can be picked up at the placement office.

Juniors might be interested to know that included on the new list are companies recruiting for summer jobs. However, there are two conditions that should be noted. Recruiters will consider only the top half of the class, and students must reside in the hometown area of the company. Juniors will have to wait until the end of March to sign up for April interviews.

## Engineering Day Program For Frosh

Yesterday, between the hours of eleven and twelve, the professional engineering societies in cooperation with the degree department heads, held an Engineering Day program. The purpose of this special hour was to aid the freshmen students in deciding upon their course of study, since their choices of course must be known before April 6. Each department presented meetings at which the curriculum and opportunities available in these respective fields was discussed and outlined, giving the freshmen a chance to see what is in store for them in a particular chosen field.

The A.I.Ch.E. provided a discussion of the chemical engineering and chemistry led by Dr. W. L. Kranich, who related to the freshmen the opportunities and benefits of the Chemical Engineering profession. After hearing of the many aspects and divisions of chemistry, the group of students were taken on a tour of the chemical engineering laboratories in which heat exchangers and fractionating columns were shown in working operation.

The student chapter of the A.I.E.E. provided something similar in a discussion led by Dr. Richardson and Professor W. R. Grogan. The aspects of electrical engineering and the many areas it covers were talked about. The students asked questions relating to the field of electricity, job prospects, and the type of work available to a good electrical engineer.

The Mechanical Engineering Honor Society and the Student Branch of the A.S.M.E. presented an inquiry entitled: "Are you the type to be a mechanical engineer?" The freshmen received invitations in the form of an objective questionnaire, to attend the A.S.M.E. function today. After a discussion of mechanical engineering in general, the frosh were conducted on a tour which in itself answered many of their questions. In the strength and power laboratories the W.P.I. torsion testing machine

See ENGINEERING—Page 5

## ME SEMINAR HEARS TALK ON REACTOR

The topic of the ME Seminar, held Feb. ninth, was the core calculations of the new WPI reactor. The talk was given by Professor Bernard Hildebrand of the Physics Department.

The purpose of the core calculations was to determine the critical mass of our pool reactor. The critical mass is the mass of  $U_{235}$  required to achieve the condition whereby the fission reaction is completely self sustaining. The fission is the breaking up of a  $U_{235}$  fuel nucleus into two parts upon the absorption of a slow neutron. (The nucleus splits into two parts when hit by a slow neutron.) This process keeps on repeating itself. On the average, about two neutrons are broken off for every fission, but of these neutrons, one is lost to leakage, or is absorbed by control rods or other nonfissionable materials. This leaves one free neutron which will go on to produce another fission. Under "critical conditions" this process keeps repeating itself. The reaction can be accelerated or decelerated by controlling the absorption of neutrons.

The core calculations were used to determine the mass of the fuel so that this chain process would occur under certain specified conditions. The magnitude of the critical mass depends on the types of materials used, and on the geometric arrangement of the materials that make up the reactor. In the case of our own WPI reactor, the materials are highly purified aluminum, highly purified water, and highly enriched uranium.

In making the core calculations, Prof. Hildebrand applied diffusion theory. This is because the neutrons can be treated as a gas in matter. The treatment involves breaking up the neutrons into a fast group and a slow group, and then averaging the properties over these two ranges of energy.

The original core calculations were made by a nuclear engineer at General Electric. Prof. Hildebrand's calculations are in a way a check. However, their importance lies in the fact that with these calculations it is possible for students to design other reactors using other materials and geometries. This is because the calculations were programmed to be run off on the WPI computer, and now that they are programmed, other systems can be checked out by varying certain variables, such as the materials, dimensions, etc.

See ME SEMINAR—Page 5

## NATIONAL SOCIETY ENGINEERS

In the days and years to come, man's greatest test from a scientific and intellectual standpoint will be encountered in the exploration of our and other solar systems. The strides being made in the field of space travel and reconnaissance indicate that America and other nations have embarked on an adventure into the realm of the unknown. This new space era is actually an additional growth of technology and science.

Each year during the week of Washington's Birthday the National Society of Professional Engineers proclaims a "National Engineers Week." During this week the society tries to impress on the minds of the public the importance of education—education in basic mathematics and the physical sciences. The NSPE accomplishes this by conducting conferences, exhibits, guided tours and other activities of an educational nature.

"Engineering for the Age of Space" is the subject for 1959. This theme was selected in conjunction with the part played by engineering and science in the past International Geophysical Year.

In observance of National Engineers Week, the Central Massachusetts Chapter of Professional Engineers is sponsoring a talk by one of the nation's leading authorities in the field of artificial satellites, Mr. Robert J. Davis. Mr. Davis is Project Engineer for the Smithsonian Astrophysical Observatory, and is responsible for the Satellite tracking program which maintains twelve tracking stations around the globe. In conjunction with this he developed and perfected the "crystal clock," an electronic timing device used to synchronize time between these tracking stations. Recently Mr. Davis has been appointed to head the "Space Telescope Project" which will place an astronomical telescope in orbit. This telescope is to send its information back to earth stationed television receivers.

In his address, Mr. Davis will cover topics from their engineering aspects and related problems of experiment in space. Some of the topics Mr. Davis will speak on are: Television Problems to Optics, Thermal Effects, Electronic Development, and Power Sources.

Professor Carl H. Koontz, Head of WPI Civil Engineering Department, cordially invites any faculty member or student to the Hickory House at 8:30 P.M. on Thursday, February 26th, to hear Mr. Davis.

## JOB FACTS FROM DU PONT



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★ ★ ★

DuPont, over the past 25 years, has spent \$1 on research for every \$3 on production facilities.

**CLUBS—From Page 2**  
**P.C.F.**

Last Thursday night, February 19, the members of the Protestant Christian Fellowship had the pleasure of hearing Dr. R. Nunnemacher of Clark University's Department of Biology speak on evolution. At the meeting which was held in the Janet Earl room, Dr. Nunnemacher discussed evolution as seen from a strictly scientific viewpoint. He brought out many facts concerning the subject which the members previously did not know or understand.

Dr. Nunnemacher used slides to help explain his talk, which was also attended by students from Becker Junior College. After the meeting refreshments were served.

The topic and data for the next meeting have not been set as of this date. But the meeting should be a good one as elections of officers for the next year will be held.

**Chess Club**

WPI's gallant warriors of the chess board beat Clark University with a score of three games and one tie to two games and one tie in a match held here at Tech. Individual winners on the Tech team were Larry Israel, Andy Edelman, and Jack McManus. Ralph Guertin, the team's first man, tied his opponent. The chess club has had three matches with other clubs, and has won two of them.

The loss they suffered was to the Worcester Chess Club.

To keep these chess strategists occupied between clashes with other teams, the chess club has set up a tournament within the club. The members are broken up into two divisions, and a round robin is being played within each section. The winners of the most matches from each division will play for the club championship. So far, Larry Israel and Ron Riquier are leading section two, and Ralph Guertin and Jack McManus are leading section one. All of these players are undefeated. There will also be matches played between the second and third place winners from each division.

**Cosmopolitan Club**

The February meeting of the Cosmopolitan was held at the home of Dean Hollows. Guest speaker was Major Doyle, who gave an interesting discourse on Japan supplemented by slides.

The enthusiastic club discussed plans for a joint meeting with other Cosmopolitan clubs in the area. Also plans for an international dinner to be held at the home of President Bronwell were considered. Members of the club would cook various native dishes at this dinner. A nominating committee was picked to choose candidates for the election of officers to be held in March.

**GREEKS—From Page 3**

The first week of the new term, TX pledges were given the opportunity to prove their skills in painting, paper-hanging, floor waxing, and shaping things up in general. The weekend proved to be most eventful and worthwhile, finally being topped off with a party following the basketball game Saturday night. Enjoying a week of rest, the newly initiated Theta Chi members somehow found time to plan a thrill packed evening of fun and entertainment in celebration of their initiation on Saturday, February 14. The latest census finds Al Migneault pinned to Nancy Clark, and Dick "Tiger" Thompson on a leash held by Jane Burret! Not to be outdone is Al Barney who announced his engagement to Carol Markszin. Congratulations to all!

The mid-year vacation found an industrious group of Lambda Chi's redecorating their newly acquired annex on Schussler Road. An impromptu gathering on the Saturday before the beginning of the new term served as a celebration of the completion of their labors.

The Friday night of the new semester was spent with the paying of an old debt to the brothers of AEPi by throwing a stag in their behalf. On the following evening, the Lambda Chi's rolled out the carpet for their "Valentines" at the traditional St. Valentine's Party.

Monday the 16th brought the beginning of "Character Building Week" for the pledges. The week was culminated with a joint party with Clark University LCA chapter after the Tech-Clark basketball game.

The black arm bands are out again, as the elite "Society for the Preservation of Bachelors," announced the loss of two members. The jewelry of ex-bachelors Leo "Benny" Robichaud and Edward "Ted" Sundberg may be found in the possession of Barbara Crasso and Gail Adams, respectively.

Returning back after mid terms the AEPi brothers and pledges started off the new term with a stag on Friday night with the Brothers of Lambda Chi. The next evening Phi Sig jour-

**ENGINEERING—From Page 4**

was demonstrated, showing the properties and qualities of steel. In the Heat and Power labs the effects of a variable compression ratio on an internal combustion engine were performed.

The Physics department under Dr. A. E. Parker also conducted a formative period in Salisbury in which the life of a physicist was portrayed. Dr. Parker described the many research and commercial possibilities of physics as a life's work.

The Mathematics department which, for the first time in the history of W.P.I., will be offering a degree next year, held a discussion hour in which the plans of the department were revealed to the many anxious freshmen who are planning to major in Math.

neyed to Einhorn Road where a real swinging time was had by all.

At last awarding of the Megundi. Stu Kazin walked off with this well deserved honor. However, runner up Dick Adler has vowed that next time it will be a different story. Good luck to both of you.

The Tekes returned to their temple rested and eager to settle down to a more active social life now that the problems of going national are over with. To start things off the Teke Temple went Roman Saturday night, February 14. The House was turned into a Roman Forum, complete with orators, wine, grapes, and dancing girls attired in full Roman garb. For six gay goldfish the party proved to be too much. Tom Poole is still trying to get the purple stain off his feet.

Last Thursday three frosh, one sophomore, and two associates were pledged into the fraternity. They were Bill Reinhart, Haines Boyle, John Tufano, Dana Wilcock, Mr. Warren Talbot, and Dr. Granath. Watch out pledges, the new brothers are restless. Eight of the more courageous fraters have set up kitchen and are endeavoring to learn the culinary arts. Frater Faulk has been having rather hard luck as he had a blowout and a crack up during the Christmas vacation. Anyone for a slightly compressed Chevy—cheap?

**ME SEMINAR—From Page 4**

The programming was done at the WPI Computer Facility by Mr. Don Tompkins, who is a Physics graduate student. The results, after the calculations were run off on the computer, closely checked those of General Electric.

The final proof of the accuracy of these calculations will come when they are checked by performing a critical experiment when the reactor is built. In other words, the first experiment with the reactor will be to add U<sub>235</sub> fuel slowly until the fission process becomes self-sustaining. The amount of U<sub>235</sub> fuel should closely check the calculations.

"Trends in Engineering" was the subject of discussion at the Seminar which was held in lecture room 130, Higgins Laboratory, at 4:30 on Tuesday, Feb. 24. The guest speaker at this time was Mr. Zenas R. Bliss, Provost and Professor of Engineering at Brown University. Mr. Bliss, who has an excellent background in the field of engineering, spoke on the subject of developments in engineering, particularly as they have had a significant impact upon education, both in the field of engineering and outside of it.

Following is a schedule of forthcoming meetings:

Tuesday, March 10—Residual Stresses and Fatigue Strength by Mr. Leo P. Tarasov of Norton Co.

Tuesday, March 24—Machine Tool Dynamometry by Mr. William R. Backer of Norton Co.

Tuesday, April 7—New Horizons in Fluid-film Bearing Research and Design by Prof. Dudley Tuller of Columbia University.

**TRUSTEES—From Page 1**

tional needs of the community. This enlarged educational program will better serve industry in New England and in the Worcester area by increasing the supply of well-educated scientists and engineers capable of providing scientific and technological leadership.

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**Do You Think for Yourself? (ANSWER THESE QUESTIONS AND YOU'LL FIND OUT!\*)**



1. If you get stuck on a crossword puzzle, do you (A) finally refer to a dictionary, or (B) leave the puzzle unfinished?

A  B



5. Would you prefer to play tennis with an opponent you know to be (A) not quite so good as you, or (B) a slightly better player?

A  B



2. Would you rather be (A) the designer of the first successful space vehicle to the moon, or (B) the first man to ride in it?

A  B



6. In deciding whether to see a movie, are you more influenced by (A) what a casual friend tells you about it, or (B) what you know of the cast and story?

A  B



3. If you were faced with two tasks, one pleasant and the other unpleasant, would you first do (A) the unpleasant task, or (B) the pleasant task?

A  B



7. If you were a multimillionaire, would you rather have (A) everyone know it, or (B) only a very few know it?

A  B



4. If you find you aren't doing well in an activity, do you (A) concentrate on it to improve your performance, or (B) devote your attention to things in which you do excel?

A  B



8. Do you take more notice of someone's (A) good looks, or (B) good manners?

A  B

9. When making your choice of a filter cigarette, do you (A) act on the basis of what someone tells you, or (B) think it through for yourself?

A  B

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\*If you checked (A) on three out of the first four questions, and (B) on four out of the last five . . . you really think for yourself!

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## HOCKEY SEXTET LOOKS SHARP SINCE MIDYEAR

Since the vacation break the WPI hockey club has begun to jell and has really impressed us in its last four starts.

On February 10 at the Worcester Arena—Tech handily defeated Fitchburg State Teachers College by a score of 7-2. WPI completely dominated play throughout the entire tilt. Dick Bratt won the opening faceoff, flipped the puck into the Fitchburg zone, and the game was underway. A flurry of shots were unleashed at Le Blanc, the Teacher's goalie, and finally at 6:14 of the period Lee Courtemanche cut down the right boards and blinked the red light to put WPI out in front 1-0.

In the second period the pressure was kept on the Fitchburg defense, and Brad Hosmer (from Dick Bratt) at 2:23, Charlie Ferrari (from Jack Wheeler) at 9:41, and Don Bottomley (from Ralph Smith and Pat Williamson) at 11:07 all scored to make the board read 4-0 at the end of the period. Good backchecking and good defensive work had held Fitchburg scoreless so far.

Tech continued to provide the offensive thrills as the third period began. High-scoring Jack Wheeler took a pass from Mike Gasek and scored at 0:50 and less than four minutes later Courtemanche and Hosmer passed to Bourget to up the score to 6-0. With Freshman and Sophomore reserves gaining valuable experience throughout the remainder of the tilt, Tech scored once more on a goal by Wheeler sandwiched between two Fitchburg tallies to make the final 7-2.

Three days later Tech was jolted and surprised by Dean J.C. and the result was an unsatisfactory 4-4 tie. It was an exciting game, but against an opponent who was not expected to prove very troublesome. The teams exchanged goals in the first period, then Tech moved ahead late in the second period on goals by Wheeler and Gasek. With only a minute-and-a-half left in the period Boyce of Dean Jr. scored unassisted to knot the score 3-3 going into the last 15 minutes of play. Both teams came out on the ice really fired-up for the last period, and it looked like one goal would provide the margin of victory. Suddenly at 9:12 Dean Jr.'s Damon broke in alone on Cohee and flipped a backhand by him to make it 4-3. Tech suddenly came to life and kept the play around the Dean nets until finally at 18:06 Lee Courtemanche provided the equalizer.

Now sporting a 4 won-2 lost-2 tied record, Tech took on arch rival Nichols on Feb. 17 at the Webster Square rink. Nichols had previously tied the crimson and grey at 3-3 and revenge was in order. The largest crowd of the year saw Tech strike fast and furiously and take a 5-1 first period lead on goals by Bourget, Wheeler, Gasek, Steve Rybczyk and Ralph Smith. For Smith and Rybczyk it was their first of the season. Tech continued to outclass the visitors and upped the advantage to 7-2 after

two cantos on scores by Gasek and Dick Bratt.

The third period really saw a change in what to then had been a listless Nichols team. The visitors from Dudley, Mass. suddenly came alive and on two quick goals 54 seconds apart narrowed the score to 7-4. Nichols continued to press, sent Cohee to the side for repairs after a "head save" that needed a stitch, then scored again on Tech at 11 minutes of the period. They kept the pressure up, as the partisan Tech crowd yelled for action from the home forces. Action they got, as a brief fracas sent Jack Wheeler off for five minutes. Despite being shorthanded Tech managed to prevent another score, and the exciting game ended 7-5.

On February 20, only a week after their first meeting, Tech again faced Dean. Bent on revenge for the 4-4 tie, the Engineers were out to win this one.

The first period got off to a rousing start when on the first Tech rush at the enemy goal, Pat Williamson passed to John Wheeler for a score. The time of the goal was 31 seconds. The lead was increased to two goals when just a minute later Wheeler scored again. This time the assist came from Dick Bratt. However, Dean was not to be outdone, and came right back with a goal of their own to cut the lead to one goal. The first period ended with the score 2-1.

Throughout the early stages of the second period the game see-sawed back and forth with neither team being able to dent the twines. Dean had several scoring opportunities but good defensive play and some stellar saves by Frank Cohee prevented any scoring. Wheeler broke the scoring drought when he rammed home a Don (Charlie Brown) Ferrari pass for a score at 11:32. The remainder of the period was as the early stages had been with no further scoring by either team.

In the last period the superiority of the Worcester Tech team began to show. They had several early period rushes with one going for a score. This sounds very repetitious but it was John Wheeler again on a pass from Ferrari to make the score 4-1. Midway through the period Tech put the game on ice with another goal. This time it was Wheeler unassisted as the "Big Gun" belted home his fifth goal of the evening. Dean tallied a goal later in the period but to no avail as the final score was 5-3. The highlight of the evening was John Wheeler's one man show.

The season's record now stands at six wins, two losses, and two ties. By virtue of this fine record the team is in first place in the greater Worcester hockey league. Against league competition Tech is undefeated. The two losses have come against teams outside the league.

At this time an expression of appreciation is due for the men from Tech who volunteered between each period to scrape the ice. This shows good school spirit and is greatly appreciated by the players, since it gives them a chance to rest between periods.

## Fraternities Get Ready To Start I.F. Basketball

Soon after the end of the intercollegiate basketball season at Tech, the facilities of the gymnasium will be taken over by the I.F. Basketball League. The teams which comprise the league may not possess the finesse which the varsity teams at Tech have acquired but what they lack is more than made up for by driving spirit and keen competition between the several teams.

The league is famous for hard but good basketball. I.F. games feature all the fine points of basketball but tend to be on the rough side due to the competitive spirit between the teams. It is a league where the will and heart to win prove to be as equally important as the skill of the game.

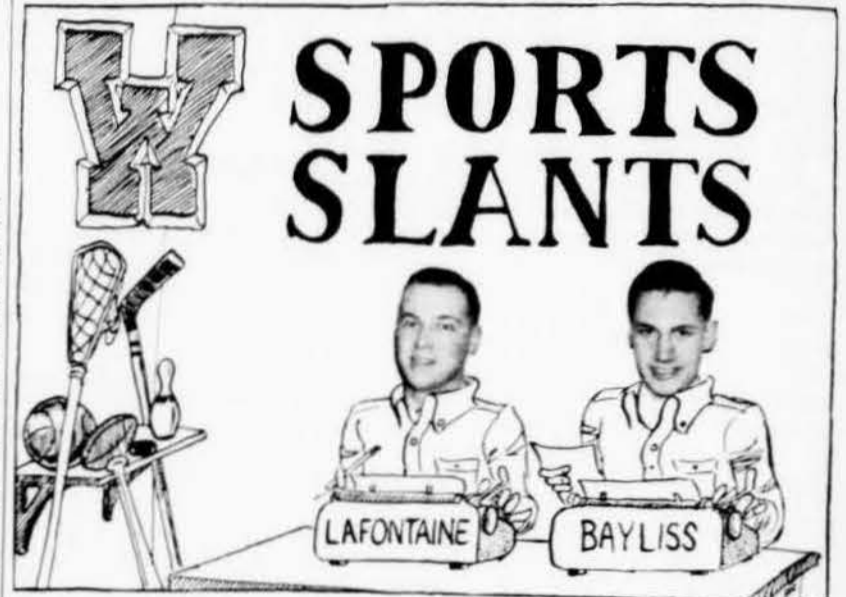
Along with providing competition for those who have the know how and the instinct to take an active part in the games, the league also provides the most colorful and exciting segment of I.F. competition. There is always keen competition for the first place trophy which signifies fraternity basketball supremacy. This is one of the most coveted and sought after honors in I.F. competition. In quest of this honor the teams in the league have been holding practices and are now in the process of polishing their style of play for the opening of the league season. Main competition for first place honors will be between Theta Kappa Phi, Phi Sigma Kappa and Sigma Alpha Epsilon, but at this time it looks like T.K.P., paced by the old squad they had last year plus a few more, will take first place in the final standings. Whatever the outcome, we are assured of many very exciting and competitive games again this season.

## Two Weeks Left In I.F. Bowling; A.E.P. Leads

With only two weeks left until the season ends, there is a nip and tuck battle for first place in the I.F. bowling loop. A.E.P., the league leader, is being pushed hard by a strong T.C. team, which, incidentally, places three men in the top five bowlers. The way things look now, the three teams leading the league will stay there, but in what positions, only time will tell.

The league leaders are Goodfader of A.E.P. with a 97.4 high, Pekrul of TC has downed 96.6 pins a game, Allen of TC, 94.5, DiPalma of LCA 93.4, and Bernier of TC with a 92.9 average. The high triple is held again by Goodfader of A.E.P. with a 315. Highest single honors go to Ara Tatumjian of SPE with 124, and TC, the team that is really pushing, has the highest team triple with a 419.

The three league leaders will well be worth watching in the next two weeks as they are grouped closely and have some top notch bowlers.



We the new sports editors hope that you will be reading and enjoying our comments in this column throughout the coming year.

We might first note that another step forward has been taken in Tech's athletic program. As you all know much of Tech's athletic representation comes from competing groups which are not recognized officially by the athletic department as teams, they function instead as clubs. The differences between team and club status are many and somewhat complex and we don't wish to go into them at this time. The difference which we do wish to point out is the matter of recognition. Everyone is familiar with the sweater and letter given as award for playing a varsity sport. Clubs had previously received nothing in this respect, and the fellows who had taken part in these "club sports" had given their time and energies just as their varsity counterparts had. The Athletic Department felt this need for more "club sport" recognition and has now set up a system of awards for "club sports." These awards will be in the form of a 6 in grey "W" much like those given as varsity awards. This club award will also have a maroon "C" superimposed on the grey "W." This award will be accompanied by a certificate for participation in the sport involved. To be eligible for this award the club in question must have been in satisfactory operation for at least three years. The eligibility requirements for the individual players will be determined specifically for each sport. This is a step toward the much needed recognition our clubs deserve.

One of the first clubs that comes to mind when we mention these awards is the Hockey Club, which is having one of its finest seasons in recent years now sporting a 6-2-2 record. There are many reasons for this success, two of them being the plays of John Wheeler and Mike Gasek. Many of the same boys are back this year that played last year and this experience has made itself known in many instances. Depth is also another contributing factor with freshmen providing much of this depth. This depth is pointed up by the fact that four men, Andrews, Rybczyk, Carlson, and Smith are fighting it out for the third line and improving fast as they gain more experience. The boys have a real test coming up Saturday when they meet MIT in Boston at 2 P.M. The team winds up its home season March 3 against Assumption. The basketball team pulled off another exciting win this time over Clark to take the city small college championship. The boys showed little drive and spirit throughout the first half as the shooting of Andy Edelman and Fred DiPippo just wasn't up to par. The boys just didn't seem to be talking it up or making any noise out there. The second half was another story as Edelman came out of the shooting slump which had plagued him since the Northeastern game. It appears to us that the two soft games against MIT and Merrimac might have taken the edge off the team for lack of strong competition. DiPippo also showed well in the second half by thoroughly outplaying Clark's St. Pierre. The J.V.'s also continued their fine record at home by trouncing the Clark cubs. Special recognition should be given to Harry Rapelje for his fine performance in holding Clark's Epstein to three field goals well below his previous marks which had been in excess of 35 points. While sparkling on defense Rapelje led the attack with 21 points. The crowd at this game was large as all the home game crowds have been and once more pointed out the need for expanded facilities in Alumni Gym. The facilities of the gym are now in constant use by organized teams leaving no space for the individual student to work off his excess energy.

Tech will once again be host to the Easterns for small college track. We have one of the finest small college tracks although our dressing facilities are limited. This again should give the school considerable prestige in the realm of athletics.

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## ENGINEER FIVE TAKES THREE OF LAST FOUR

On February 12 the M.I.T. cagers invaded Alumni Gym to take up once more their annual battle with Worcester Tech. They might have been better off to have forgotten about it this year. The Worcester men wasted no time in putting the game on ice. In the first half of the game, the M.I.T. shooting eyes were way off, as they could scarcely buy a basket. Moreover, tight Tech defenses were forcing them into careless play and hurried shots. Even when they were able to work the ball in for a layup, it seemed to roll out of the basket. Meanwhile, the Engineers were operating like a well oiled machine. Hot hands at the outset gave them a 30 to 12 lead very early in the game. It was inevitable though that two such extreme paces should level off somewhat. M.I.T. came back a little to play their opponents almost even for the rest of the half. Worcester left the floor at the half with a rather overwhelming 41 to 22 lead. It proved to be a lead that was never to be seriously challenged for the rest of the game.

five minutes to go in the first half. Tech had built up a 30 to 11 bulge. Here the reserves began to see action for Tech, and a ten point blitz by Al St. Germain gave the Worcester cagers a 19 point lead at the half, the score being 46 to 27. The start of the second half saw the regulars for Tech back in action. They were even more devastating to the Merrimack chances than they had been in the opening moments of the game. In ten minutes they poured 32 points through the nets. This came as the result of deadly outside shooting by DiPippo, Biddle, and Edelman, while Lutze and Frant came through with some pretty baskets from in close. The reserves played the rest of the game from this point. The only contest now was to see whether or not they could hit that magic 100 mark. They could not have come any closer and still missed, but nobody really cared. The final score was 99 to 67. It would be hard to pick a really outstanding scorer, because five of the players hit for double figures. These were DiPippo, Grant, Biddle,

## J.V. Basketball Five Wins Two Of Last Three

Worcester Tech's J.V. basketball team continues to have a fine season. Out of their last three games they have won two. They beat the Merrimack J.V. team, the Clark University J.V. team but lost to the Northeastern University J.V. team.

Against Merrimack, the Tech J.V.'s nearly reached the century mark in winning 96-44. Far outplaying Merrimack in the first half, the Tech J.V.'s went into the second half on the long end of a 45-18 score. Outstanding scorers for Tech were Paul Engstrom with 18 points, Harry Rapelje with 17 points, and Brad Booker with 14 points.

Then last Thursday night, the Engineers ran into a formidable Northeastern University team at Boston. The Northeastern Univ. J.V.'s proved to be a little too strong for our J.V. team as the Northeastern Univ. team handed our J.V. team a 67-59 loss. The half time score showed Tech behind 24-34. Paul Engstrom led our team with 21 points while Harry Rapelje contributed 11 points.

On last Saturday night, the Engineer J.V. team again rolled in fine fashion beating the Clark University J.V. team in Alumni Gym. Playing well from the opening whistle, our J.V.'s came out of the first half with a 28-14 lead after a nip and tuck first ten minutes. Midway through the second half Tech increased its lead to 47-28. The final score showed the W.P.I. team out in front by a 17 point margin 63-46. Leading the J.V. scorers were Harry Rapelje with 21 points, Paul Engstrom with 12 points, and Roger Curtis with 10 points.

## Wrestling Team Ends Season With Improvement

Though the W.P.I. Wrestling Club hasn't got the most impressive record, they are "up and coming" and will, no doubt, improve with each year. Their record for this year is one tie and seven losses; however, we must remember that they are a new club on campus, being formed last year through the combined efforts of Sophomore Moe Rees and Professor Raymond Scott of the mathematics department. Their last match was with the University of Massachusetts. Here is the rundown: The 123 pound class was won by WPI on a forfeit. UMass then took the second match (130 pound class) by the same forfeit route. Tech's Jon Fox then was pinned by Steve Murphy of the Redmen in the 137 pound class. The Statemen then continued their dominance as Don Kiely pinned Dick Jewell in 4:00 of their match. In the 157 pound class Bill Harris of UMass pinned Tech's Charley Mello. Tech's captain Moe Rees then showed the way to the home team as he pinned Ben Doherty in 2:42 of their match. UMass then cleaned up for the day as Fran Allaire pinned Dick Davis in the 177 pound class and Pete Noddin decisioned Tech's heavyweight Bruce Willbrandt. The final score stood UMass 28-Tech 10.

One of the more outstanding wrestlers of the club is Captain Moe Rees. His season record is seven wins and one loss. At this point we'll borrow Professor Scott's words, "Moe had an off night at Springfield." More than likely Rees will represent the club in the New England Tournament which is going to be held at Springfield College March six and seven. Two other members of the club that have compiled good records are Sophomore John Lewis and Freshman Dick Jewell. Lewis, who has just started to wrestle, has a four and four record, while Jewell has won three and lost two. Mention should also be made of Hap Weaver, a transfer from Coast Guard Academy, who has helped the club out by coaching this year.

## Tech's Swimming Team Loses To Trinity

Tech's swimming team, hampered by mid-term failures, lost a meet to the men of Trinity in Hartford on February 11. Having only seven members left on the team, Frank Grant's swimmers tried in vain to stem the tide but Trinity was in command throughout the meet.

MacDonald did his usually fine job in the Diving event and took Tech's only first place. Others scoring points were: Ekman in the 100 yard Butterfly, Lochwood in the 60 yard and 100

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Edelman Leads Tech Drive

In the opening minutes of the second half, the M.I.T. five finally found their shooting touch. The two teams traded baskets at a brisk pace for a while, but then Worcester began to pull ahead again. It soon became a certainty that the Mass. Tech boys would never come close to the Worcester Engineers in this one. Coach McNulty had already begun to move his reserves into the action. They took up where the first stringers had left off. When the final buzzer sounded the Engineers had fashioned an overpowering 85 to 58 victory for themselves. Four men hit in double figures for Tech. DiPippo had 20 points for the winners. Biddle and Edelman each added 14, and Fred Lutze tossed in 13 more. Miles Grant did his usual fine job off the boards. Bob Polutchko of M.I.T. was the game's high scorer with 25.

The following Saturday the Engineers had an even easier time when Merrimack came to town. By the time the game was over the Tech cagers had rolled up a total of 99 points for a new high scoring record. The Engineers wasted no time in getting started on their march to the century mark. In the first few minutes they jumped out in front by a 13 to 2 advantage. Miles Grant controlled both the offensive and defensive boards, and as a result the Engineers were able to take the shots that they needed to score, while the Merrimack five had to be content with just one pop at the hoop. With about

Edelman, and St. Germain, with DiPippo as usual the high man. Grant, Gustafson, and Lutze all did a fine job off the boards.

It is odd how a team can go from so good to so bad in two consecutive games, but this is what happened to the Engineers for the game with Northeastern. This was a game that the Worcester hoopsters were favored to win. In previous starts the Tech team had been functioning like a team that was designed to completely annihilate their opposition. They lost all their touch in this one, though. They just could not find the scoring magic that had sailed them to so many victories earlier. The usual tight defenses broke down, too. The normally effective man to man could not contain the smoothly operating Northeastern cagers. By the way, the fact that Tech was off takes nothing away from the Northeastern team. They put out a fine effort in this game, probably their best of the year. The setback dropped the season's record to ten wins and five losses. The team arrived home a very downhearted bunch after their poor showing. Chalk it up to experience, men.

Last Saturday night Worcester's arch intra-city rivals from Clark came to Tech. As was expected, the Engineers won the game, but for a while the game took on unusual shape. In the first half it looked like the Tech men still had some of the bug that they had caught

## Lacrosse And Track Announce First Workouts

On Tuesday, March 3, at 4:00 P.M. in room 109, Higgins, a meeting will be held for all candidates for the 1959 varsity lacrosse team. Anyone who wishes to play lacrosse this year must attend this meeting. No previous lacrosse experience is necessary; every beginner will be welcomed and taught how to play. Freshmen and sophomores are particularly urged to attend. Lacrosse is an action-packed, challenging game for red-blooded fellows who like to run, play hard, and compete. Some of the greatest lacrosse players have been "little guys," and so nobody should let lack of size deter him from trying the sport.

The meeting on March 3 will be short but you must be there.

Coach Krashes

Pre-spring track will begin March 2. Workouts will be held every Monday, Wednesday, and Friday in the gym. Freshmen are welcome since no previous experience is necessary. However, men with experience are urged to attend.

Coach Norcross

Meeting of STUDENT WIFE'S CLUB on March 11, at 8:00 P.M. in Janet Earle Room

See BASKETBALL—Page 8

yard Freestyle, Mackenzie in the 220 yard and 440 yard Freestyle. The final score of the meet was Tech 14, Trinity 73.

The next matches are with Coast Guard Academy, February 21, and Massachusetts Institute of Technology on February 28.

## Basketball Game February 28 Tech vs. Suffolk

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ACROSS FROM DINER

## ASME Sponsors Student Paper

On March 10, at eight o'clock in Higgins 109 the W.P.I. chapter of the A.S.M.E. will sponsor the 1959 Student Papers Contest. As in years past the contest is expected to arouse quite a bit of interest here on campus. The purpose of this contest is to choose a candidate to represent Worcester Tech in the regional contest, to be held here on April 17th through April 18th. Winners of the April contest will receive an expense-paid trip to St. Louis to compete at the A.S.M.E. semi-annual meeting as well as receiving cash prizes. Tech has had a very good record in these regional contests, having placed either 2nd or 3rd for the past five years. It is the hope of all concerned that a Techman may make that trip to St. Louis this year.

In order to compete in the local contest next month, a student must be en-

rolled in any approved engineering course and must be a member of the A.S.M.E. Membership details may be obtained from Mr. Ray Hagglund of the M.E. department. Thus far the following men have indicated that they plan to submit papers: Peter K. Bertsch, M.E. '59, Richard L. Bratt, M.E. '59, David A. Evensen, M.E. '59, Walter M. Gasek, M.E. '59, Chester F. Jacobson, M.E. '59, Allan P. Sherman, M.E. '61. Any others interested are asked to contact any member of the M.E. department as soon as possible for further information.

Papers will be judged by six judges: three professional men chosen from industry and three students selected from the senior class. From the industrial field will be Mr. J. A. Holbrook of Morgan Construction Co., Worcester, Mass., Mr. Edwin L. Pace of General Electric Co., Fitchburg, Mass., and Mr. Addison Waddell of Riley Stoker Corp., Worcester, Mass., and from the senior class will be: Robert J. Agricola, M.E. '59, Robert W. Bosma, M.E. '59, and John

R. Mack, M.E. '59. Information regarding length of papers, contents, criteria for judging, etc., may be obtained from the notices posted on the bulletin boards throughout the school concerning the contest or from any member of the M.E. department.

To each man entering the March 10 contest will go a K&E pocket slide rule. The winner of the local contest will receive his choice of any engineering handbook. Considering the necessary efforts this contest provides an excellent opportunity for the engineering student to put some of his knowledge and ingenuity to work and perhaps come out on top with a very useful and worthwhile prize.

Read the TECH NEWS

**BASKETBALL—From Page 7**  
at Northeastern. Their play was erratic as they continually threw the ball away, missed opportunities, and were unable to find the basket from any distance. With a little over one quarter gone, Clark was rolling along with a six point lead, 21 to 15. Tech fought back and when the half ended they had struggled to a 26 to 23 edge. But as soon as the second half started, Clark came through with two quick baskets for a one point advantage. Here the roof fell in for Clark. Suddenly the Engineers began to play the brand of basketball that everyone knew they were capable of. DiPippo started things off with a one hander. Then Edelman, who had been held scoreless in the first half (one good reason that the goings had been so tough) came through with a free throw and a very pretty lay up. While big Miles Grant dominated the backboards, the combination of DiPippo and Edelman continued to raise havoc with the Clark hopes for victory. Seventeen uninterrupted points swished through

the Clark nets, and when the smoke had cleared, the Engineers were out in front with a 43 to 27 lead. They continued on their merry way, and the final score was 68 to 44. Tech hit for a fantastic fifty per cent from the floor in this second half. The victory was the 36th out of 45 in this old rivalry.

### HONOR CODE—From Page 3

Together they shall approach the offender, inform him of their observations, and request that the offender report himself to the Medusa within 24 hours. After this period, either or both the witnesses shall be expected to inform the Medusa of their observation.

Section III. The Medusa shall have sole authority to consider all charges and examine all students charged with violations of the Honor System. It shall summon any accused student, state the charges to him, take testimony pro and con, summon witnesses, and investigate the case thoroughly.

Section IV. The Medusa shall convene secretly for its final action and render a recommendation to the committee of administration (the dean) of a just and proper penalty for each violation.

### Article Five—Enactment of this Code

Section I. This code shall go into effect at the beginning of the first semester, following its acceptance by the college.

## CLASS MEETINGS HELD ON FEB. 18

On Wednesday, February 18, the class meetings were held during the assembly period. Many new and old projects were discussed by the respective classes.

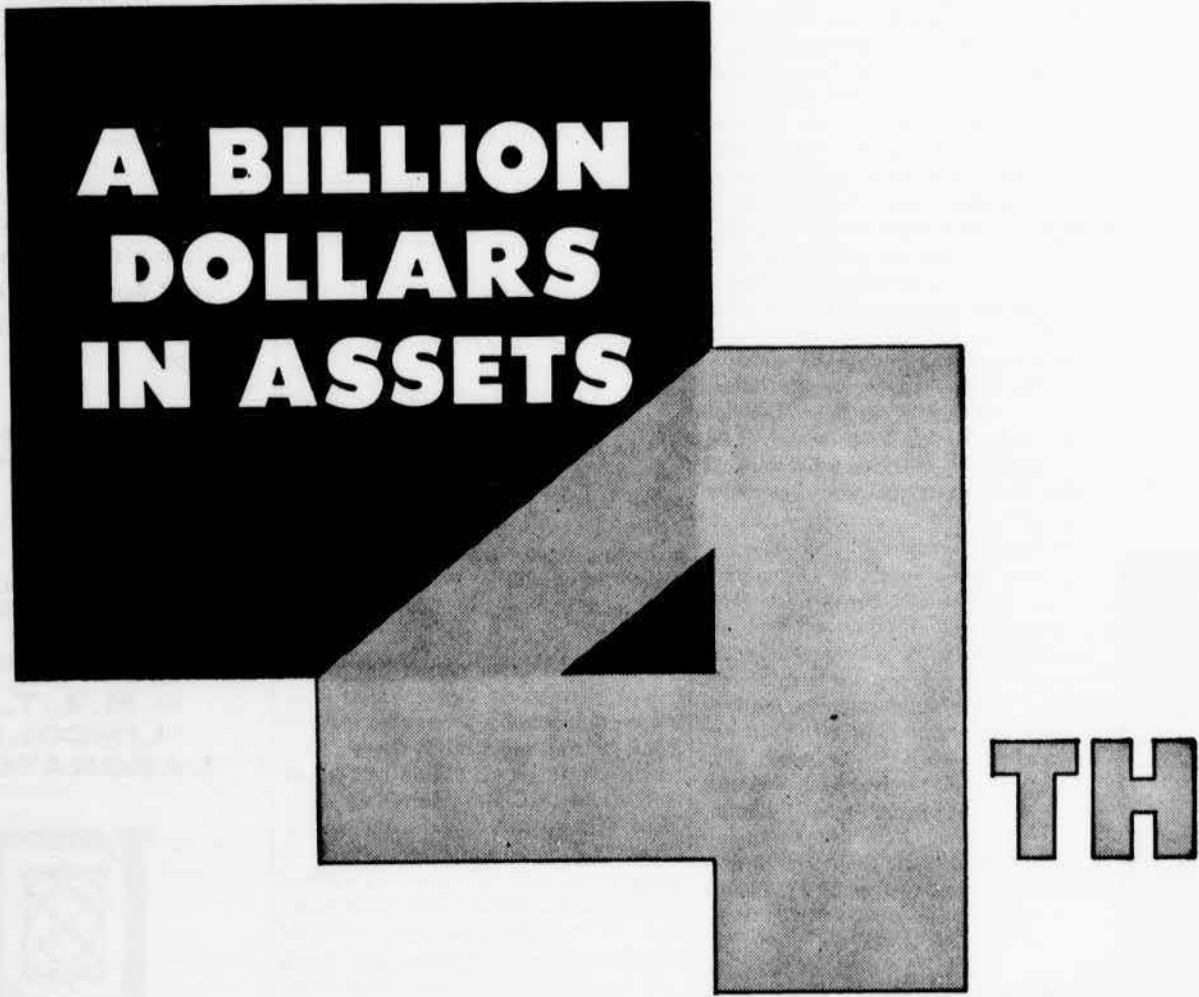
Members of the Senior class were given an opportunity to sign up for one of the many Senior committees. The committees being organized are as follows: senior stag, senior dinner dance, program committee, class day, class tree, and class gift. Chairmen for these committees will be picked by next meeting. It was suggested that all seniors keep in touch with the Tech Journal after graduation.

It was announced in the Junior class meeting that a band has been obtained for the Junior Prom. A report was made outlining the coordination of the decoration committee. Also the hiring of ushers and ticket takers was discussed. Fred DiPippo announced that class rings will be in on February 25. Orders for rings will be taken at this time.

Class numerals were awarded in the Sophomore class meeting to the members who were on a winning team in the Freshman-Sophomore rivalry. Only the men who have their dues up to date received the numerals.

The Freshman class accepted a constitution in their class meeting. Phil Puddington explained the complicated preferential voting system contained in this constitution. The class voted to appropriate money to finance a dance to be held March 21, in Morgan Hall. Those nominated as committee chairmen by the dorm committee are as follows: Band—Pete Albertini, Jon Sauter; Decorations and Clean Up—Joe Healy; Tickets—Paul Sharon, John Rupprecht; Refreshments—Bill Fado; Publicity—Vic Castellani, Fran Goddu; Checking—Bill Christopher, Dave France.

If you wish to help, see one of the committee chairmen above. It was announced that class elections will be held on March 17.



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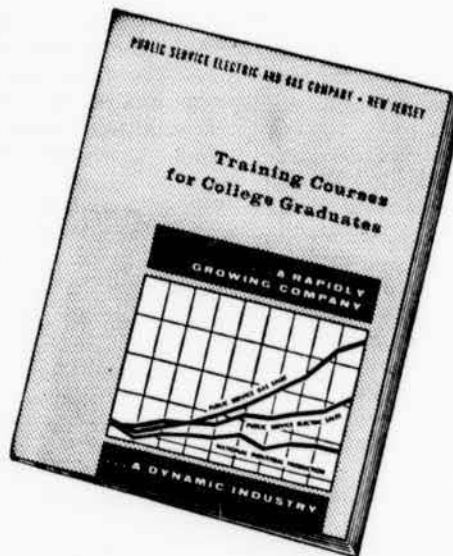
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