

SPE WINS GENERAL EXCELLENCE PRIZE

Five fraternity prizes were awarded today in Alden Memorial by Professor Claude K. Scheifley. The recipients of these awards were Alpha Epsilon Pi, Lambda Chi Alpha, Sigma Alpha Epsilon, Sigma Phi Epsilon and Tau Kappa Epsilon. In all cases, a sizeable cash presentation was made to the winning fraternity.

The brothers of Sig Ep, however, stole the show when they walked off with the General Excellence Prize for the second time in as many years. The award comprises part of a \$125.00 gift which was presented to that fraternity's representative during this morning's assembly. In addition, the Boynton Street fraternity will maintain possession of the President's Trophy for another year in accordance with the rules.

The runner-up for this award was Alpha Tau Omega whose 4.78 points toward the prize was a close second to Sig Eps winning total of 4.85.

Sigma Alpha Epsilon had the highest house scholarship average for the academic year of 1959-1960. However, Lambda Chi Alpha's 2.477 weighted house average per man was sufficiently close enough to S.A.E.'s 2.479 to necessitate the awarding of two first prizes. Both fraternities therefore, received \$100 each. Alpha Epsilon Pi, third in scholarship, thus benefited as it garnered second prize money amounting to \$75.

Tech's newest fraternity, Tau Kappa Epsilon won the Improvement Prize of \$75. The award which was presented to TKE is given each year to that fraternity not winning the First or Second Prize, that has shown the greatest improvement over the preceding year in scholarship. The statue, given concurrently with the prize money each year has been replaced. This figure of a man deep in thought, known affectionately as the Thinker, will give way to a new memento donated by Sigma Phi Epsilon.

All the prize money that was distributed today was given to the Awards Committee by George F. Fuller. Mr. Fuller is an Honorary Chairman of the Board at Wyman-Gordon Co. in Worcester.

New Addition to Gymnasium Will Be Started Soon

The expansion of the WPI Alumni Gymnasium has been in the planning stage since the Spring of 1960. All bids for construction will be in by October 14 and the contract announcement will be made soon after October 22. The modern addition will be one story high and will include a recreation basement. The building will be fifty-five feet wide, one hundred and seventeen feet long, and will be located on the West end of the Alumni Gym.

The new section will contain locker rooms accommodating faculty, coaches, athletes, and students. The present student locker room will be expanded to accommodate 1,400 students. In addition, all locker rooms will be artificially ventilated. A number of modern shower rooms will also be installed. On the first floor there will be a new Doctor's Office, an official's room, a trainer's room, and an equipment room.

In the new basement of the extension, six ten-pin lanes will be installed and will be equipped with the most up to date equipment available. The expansion of Alumni Gymnasium will not be completed until late next spring at the very earliest but will surely be in operation when school begins in September next year.

Assembly Program Under Way Today

On Wednesday during the hour from eleven to twelve o'clock every week, a period has been set aside for assemblies sponsored by the Tech Senate and President Bronwell. These assemblies have a twofold purpose: a deviation from the rigors of study; and to help supplement a student's interest in other fields besides engineering.

The assemblies for the following four weeks are listed as follows:

- October 5—Fraternity Awards
- October 12—Class Meetings
- October 19—Honors Assembly
- October 26—College Day

Freshmen should pay particular attention to their class meeting which will be held in Alden Auditorium. At this time a class chairman and two Tech Senate representatives will be elected to represent them during the coming year. This meeting is exceedingly important if the freshmen are to have the representatives they want. The upperclassmen should also attend their respective class meetings since each class has important topics to discuss. The Sophomores have the class competition, the Juniors have the "Prom", and the Seniors have the class gift selection.

Next week's TECH NEWS will carry a more complete schedule for the year.

W. P. I. TRUSTEES VOTE FOR TUITION INCREASE

Rush Program to Begin this Friday

The fraternity rush program is well under way. All four scheduled smokers have been held, the last on this past Sunday evening, October 2nd. These smokers gave the freshmen, and the upperclassmen, a chance to become acquainted on an informal basis. Campus rushing has also started and affords added opportunity to make friendly contacts.

The formal rush periods begin this Friday evening from 7 to 9 o'clock. First rush will continue on subsequent Friday evenings and Sunday afternoons for six weekends with the exception of Homecoming Weekend. The dates for first rush are October 7, 9, 14, 16, 30 and November 4, 6, and 11. First rush, as in former years, will consist mainly in tours of the fraternity houses and short discussions with the fraternity men.

Second rush will take place during the week following first rush, and will be on succeeding weekday evenings, between 6 and 9 o'clock. This period includes a dinner and, usually, a short skit put on by the brothers. The dates for second rush are Wednesday, Thursday and Friday, November 16, 17 and 18. The freshmen will indicate their choices to Professor Claude Scheifley on Friday night. Pledging will be on the following day, November 19th.

TECH'S PRESIDENT EXPLAINS NEED FOR NEW TUITION RISE

The administration announced last week that the trustees have approved a tuition rise to \$1350 for the academic year beginning September 1961.

The announcement appeared at approximately the same time as an article published in the October 3 issue of *Life* magazine. The article expressed the fears of experts that the colleges are not ready for the "flood of Grown-up Post-war babies." In reviewing 50 colleges, the article showed that the quality of the school was directly related to the cost per year, since schools with higher incomes could afford to attract a better faculty and maintain better facilities.

For these reasons WPI has found it necessary to raise the tuition. The maintenance of a first class faculty to continue WPI's tradition has made it necessary to raise the tuition from \$650 to \$1,350 in the past seven years.

In his letter to all the parents, President Bronwell made it clear that Tech's "rather generous scholarship and loan program will still be able to assist practically all students who are experiencing financial difficulty." He further noted that "the Institute is a member of the Tuition Plan whereby the tuition can be paid by installments." Any information concerning loans, scholarships and the Tuition Plan can be obtained from the office of the Dean of students.

To explain the need for the rise, he confirmed the administration's intentions to continue its "policy to attract and develop a faculty of highest professional and educational competence so that Worcester Tech can maintain its distinctive position among the better science and engineering colleges in

the country." He clarified the administration's desire to achieve the goal that will provide reasonable expansion of its physical plant in order to provide superior educational facilities. He pointed out in earnest gratefulness that the entire cost of the new buildings and the remodeling of the old has been paid from gifts from alumni, corporations and foundations to our development fund.

He continued, "The cost of education per student is considerably higher than the tuition rate. This of course leaves a rather substantial deficit which is made up out of individual gifts and endowment income."

He concluded by saying that he regrets that circumstances have made the readjustment necessary.

The Student Activity Fee of thirty dollars which was previously assessed will be included in the \$1,350. The rise therefore represents a total increase of \$220. The administration has made it clear that even with the amalgamated total that the Council of Presidents will still have the function of approving the budgets of the various organizations.

WEEKEND BREAK IS REPORTED BY TECH BOOKSTORE

Sometime during the week end of September 25 the Tech Bookstore was broken into and robbed. Mrs. Geraldine Ross, manager of the store, said that the intruder must have entered sometime between closing time, 6:00 p.m., Friday, and Monday at 8:00 a.m. when the break was discovered.

Although inventory is still being taken it is known that two brief cases and eight slide rules, six Post's and two K & E's, were taken. In a few days it will be known whether any other merchandise, in particular drawing sets, were taken. Other than what was taken, the store was not ransacked at all. The cardboard boxes which contained the slide rules along with the instruction books and belt clips were all found crumpled in a pile on the floor. Evidently the brief cases were taken to carry the slide rules, which after being removed from their boxes would fit in the cases quite nicely. Probably the intruder also took a handful of triangles, since a few triangles were found on the floor. Total value of merchandise known to have been taken is about \$107.

Entrance was gained by breaking a side window and releasing the lock. However, when the Bookstore was opened on Monday morning the side door was found ajar. It is possible that after entering by a window the intruder left by the door, perhaps in too much of a hurry to make sure it was closed.

The police are working on the case now, but they have very little to go on until some of the merchandise turns up.

PROFESSOR YANKEE TO LEAD WPI HOCKEY CLUB



HERBERT W. YANKEE

Worcester Tech's Hockey Club will be under a new coach when they return to winter practice this year. Herbert Warren Yankee, Assistant Professor of Mechanical Engineering will replace Waino Gustafson as coach of hockey.

Mr. Gustafson has been coaching hockey for Tech since the team was formed a few years ago. He has given up many hours of his own time, and has played an important part in molding the fine hockey teams which have developed in this relatively new sport on campus. Al Andrews, President of the Worcester Tech Hockey Club, stated that on behalf of all the players, managers and assistants who have worked and skated under Waino, he wished to express his sincere gratitude to Waino Gustafson.

Professor Yankee, who announced his acceptance of the post last week, has much valuable experience to rely on. He has played hockey during his high school years in the Bay State League. He took part in three years of college hockey while attending Fitchburg State Teachers College, and after graduation, played semi-pro hockey for the Fitchburg Maroons of the Eastern Hockey League and also for the Boston Junior Olympics. Besides this, during his college years at Fitchburg, he was both manager and coach of the hockey team.

Coach Yankee, in observing the WPI Hockey Club last year at the Worcester Arena, noted much team spirit and willingness to work hard out on the ice. He said that he was happy to note that all of last year's team is returning with the exception of one defenseman. However, he expects and welcomes any freshman who wishes to play hockey, to come out for the team, as there is always room for improvement.

M.E. COLLOQUIA BEGIN FOR SEASON

WPI's Mechanical Engineering Department begins its Mechanical Engineering Colloquium on October 4, 1960. The Colloquium is open to the public free of charge. Meetings are held in room 130 in Higgins Laboratory at 4:30 p.m. Each meeting is preceded by an informal coffee period.

The first meeting on October 4, will consist of a talk illustrated with color slides given by Samuel S. Rickley. Mr. Rickley received his B.S. in Mechanical Engineering at Carnegie Tech in 1942. During the years of 1942 to 1945 he served a term in the United States Navy. After leaving the Navy he went to work for the Superior Steel Co. where he worked his way up to Chief Engineer. In 1951 he came to work for the Morgan Construction Co. here in Worcester and is now Chief Engineer. Mr. Rickley's talk will be on Mergoill

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EDITORIAL TUITION HIKE

In the past week the Board of Trustees of the Institute released the announcement that the tuition for the school year of 1961-62 will be raised to thirteen hundred and fifty dollars and is to include the activity tax. It has been the feeling of this editor that the student body, parents, and friends of the school should be informed as to the justification for this increase. As we all realize, the cost of education as well as the cost of living is continually increasing and as a result the Institute must adjust accordingly. Perhaps few of you recognize the fact that the cost of an individual's education here at Tech is well over the amount of the tuition paid by the student. Funds are in existence which help to compensate for the difference between the amount paid by the student and the actual cost of the education. These funds are kept in existence by the alumni and friends of the Institute. It is quite apparent therefore that the donations have not been adequate enough to stem off the raising of the tuition, and therefore we are faced with this two hundred twenty dollar increase. Certainly, we will all agree that this is a far better solution to the problem than lowering the standards of the Institute, as have so many of the schools across the nation by expanding way out of proportion and allowing graduate students to teach the freshmen and sophomores. Perhaps it should be added that the tuitions at several of these schools, which seem to be specializing in graduate rather than undergraduate work, is now fifteen hundred dollars and still going up.

Let us consider these factors before trying to pass any rash judgment upon the Institute and sympathize with the Board of Trustees who are looking out for our best interests.

W. E. P.

HAZING SYSTEM CRITICIZED

Freshman orientation and some form of freshman hazing are traditions at most colleges in America today. W.P.I. also has its traditions of freshman orientation and hazing, traditions which have built up and changed through the years until we have the system of hazing which is supposedly taking place now.

In order to see this hazing, or orientation, in its true perspective, it is interesting to look into its history. A freshman-sophomore rivalry has been in existence at W.P.I. for many years, and its very beginnings are of little importance. What is important, however, is the segment of its history which helped formulate our present "tradition" of battling for the right to use Earle Bridge.

Rear Admiral W. F. Cluverius, a former president of the Institute, was the man who probably did the most towards having Earle Bridge erected, spanning West Street. Logically enough, the bridge was built for the protection of students crossing West Street. When, the following year, the sophomore class decided to ban the freshman class from using the new bridge, President Cluverius was justly upset, and asked the sophomores to change this rule. This they did, to the first part of rule 9 of the present freshman rules: that is, to use Earle Bridge at all times when crossing West Street.

These seventeen rules for freshman conduct, while perhaps a little humorous, have all one basic principle in common: to help the freshman adjust to Tech life. When these rules are adhered to by the freshmen, they serve to emphasize the various aspects of W.P.I. and to give the freshman a sense of pride in his school and his class. None of these rules by itself is ridiculous or unreasonable. Why is it then, that the freshmen are told to use Earle Bridge, and then those who

comply are barred from crossing? Wouldn't it be more sensible for the sophomores to concentrate their energies on those who do not conform, those who do not cross the bridge, those who do not wear their signs, as they did when rule 9 was introduced? If it is the thrill of a little contact or rough competition which the sophomores want, why wasn't the Paddle Rush held at the first home game as prescribed by the Tech Bible?

As many juniors and seniors will remember, the emphasis in past years was on singing songs, cheering, and reciting rules. The scuffle at the bridge was used to bring the freshmen together. The freshmen would then be allowed to pass only when singing the Alma Mater or some appropriate school song. Because of a foul-up last year by the present juniors, bow-ties were not distributed, and a great deal of the former tradition was overlooked.

Freshman hazing is actually a continuation of freshman orientation. A war for Earle Bridge may seem fun at the time, but it is neither in accordance with the true purpose of hazing, nor is it in accordance with reason. The danger of personal fights and resulting enmities, coupled with the danger of serious injury to some freshman or sophomore is too great to let this "tradition" continue, especially to the extent to which it was carried on at the beginning of this semester. The blame certainly doesn't rest with the present sophomores alone, but a little common sense is in order before our free rein is officially curtailed by Institute policy.

R. P. W.

LETTER TO THE EDITOR

During the half time of the Bates football game this Saturday, the Sophomores will meet the Freshmen in the traditional Paddle Rush. We of the class of '63 are positive that we can repeat last year's performance, and give the freshmen the paddling of their lives. With this victory under our belts, our class will be well on its way to winning the Goat's Head. The secret to our success will be the participation of every member of the Class of '63. The sophomore paddle rush committee, is counting on the help of the complete student body, at least the quarter that graduates in 1963. So, sophomores, tell your girl she'll have to sit by herself at the game this Saturday, during half time anyway. Just remember that obnoxious little freshman you wanted to show just where he belonged (we're not saying where that is). Rumor has it that this freshman class is the weakest class in W.P.I. history, so what have you to fear? With there being a mere 325 boys in the class of '64, if 100 men from the sophomore class show up ready to defend the Honor of '63 the sides should be just about even. When the horn ending the first half sounds this October 8, we hope to see every sophomore file out of the stands to do his share of paddling, and keep alive the Spirit of '63.

Sophomore Paddle Rush Committee

Campus World

A new system in computing grade listings has been adopted at the University of Nebraska, according to an announcement by Dean of Student Affairs J. P. Colbert. The listing is not made according to numerical grade order but by grade groups.

The top scholarship group includes all groups rating a 6.000 or above; group two includes ratings of 5.500 to 5.999; group three includes grade points of 5.000 to 5.499; and group four includes all listings below 4.999.

Dean Colbert explained that administrative officials feel such a system gives a better picture of house standings because there is usually a difference of only .5 grade point between the top house and low house rating in the grade grouping. If listed numerically, a house might be listed as eleventh and actually be only .3 to .4 grade points from the top average.

He also said his office has made a survey of the grade listings for the last eight semesters and found that the same houses usually remained in the top group from semester to semester.

* * * *

College students, as a group, are extremely well behaved, judging from a study of disciplinary action involving undergraduates at Cornell University during a six year period. The study, made by Hadley DePuy, assistant dean of men, reveals that in an average year there are about 25 student violations of non-academic rules per 1000 undergraduates. Few of these infractions are of a serious nature. Most of them are traffic violations or the results of student pranks.

The survey reveals that the number of students involved in any form of misconduct resulting in disciplinary action at Cornell averaged 193 students per year. The average undergraduate enrollment during the six year period, September 1953-June 1959, was 8077.

The study also confirms a widely held belief that women are less apt to break rules in college than men. Throughout

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TECH SENATE BRIEFS

The first meeting of the Tech Senate for the school year 1960-1961 was called to order by President Adler in the Green Room of Alden Memorial on September 26.

The minutes of the last meeting were not available.

The president of the sophomore class of Assumption College has requested that they be allowed to borrow the rope in order to initiate a Rope Pull of their own during their inter-class rivalry. In future years they plan to buy their own rope. The discussion that followed centered around the danger of the rope being destroyed as it was here several years ago. It was pointed out that it was our own negligence, or you might say spirit, that resulted in the rope being chopped up for lack of a better way to remove it from the Holy Cross Athletic Field before game time. It seems that in that year someone, somehow, was able to transport the rope all the way across town and then write WPI with it on the Holy Cross Athletic Field. Since the rope was destroyed due to our own negligence, and since much good will and publicity could result from our lending the rope to Assumption College, a motion was made and passed that the rope be lent on the same conditions that are enacted at Tech. Those being that the losing class pay a fee of \$30 in order to maintain and replace the rope when needed. The safe return of the rope was guaranteed.

The Senate decided to put Dick DiBuono in charge of the Rope Pull here at Tech this year, and Vic Castellani in charge of the scheduling and coordination of School Ring sales.

The Class of '62 will hold a special election in order to fill the position of a Tech Senate Representative, which was vacated due to a failure.

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TECH NEWS

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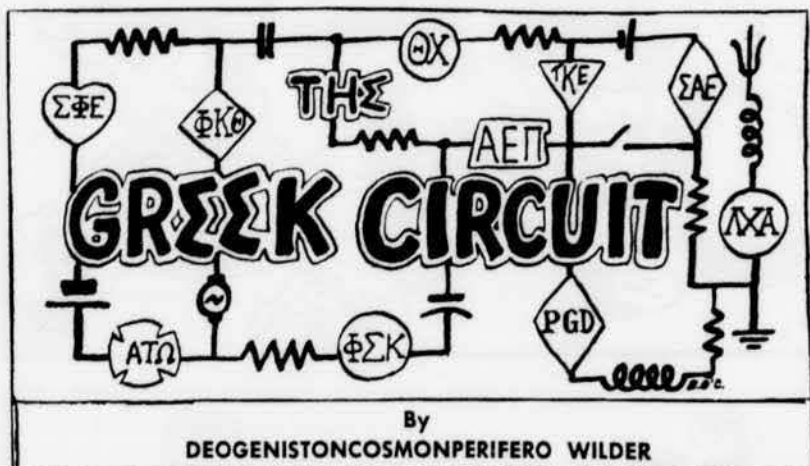
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By DEOGENISTONCOSMONPERIFERO WILDER

Last Friday night found many of the Greeks enjoying the Art Society's first film of the year, "Battle Cry". After the show, several of the houses sponsored mixers. With the team away at Middlebury the campus was a bit quiet Saturday. Many of our eager lovers used this opportunity to round out their lists of contacts for the coming year. The grapevine has it that Becker is the place this year. Being securely tied down myself, however, I'm sure I am in no position to agree or disagree.

The brothers of the KAP are once more eating regularly with the hiring of our new cook. Paul was head cook at the dorm last year, and is doing an excellent job in keeping the brothers plump and happy. That little guy with the red hair has once again stolen the spotlight by teaming up with several of our Sig Ep half-brothers for a harmless little frolic. Brother "Stick" came through in great style Saturday night with a bang-up party in the Grotto. A little close quarters, perhaps, but no one seemed too concerned.

With things finally organized at Sig Ep's annex, the party season got under way with an Open House on Friday and a more subdued gathering of the Brothers on Saturday night. Apparently Jim Kachadorian enjoyed the party Friday so much that he wants to pretend that it's still going on. That is the reason for the dark glasses, isn't it, Jim? Congratulations to Brothers Hummelman, Fratus and Anderson who were recently initiated. The Brothers would also like to welcome another new member to the house, Spook. Spook, it seems, hasn't realized yet that he's a kitten and is supposed to act as such. He thinks he's a dog and has mastered the art of fetching and rolling over. As soon as Spook learns to bark, he'll be initiated as a full-fledged dog and Don Bottomley will be able to play in his sandbox again.

Where's the fire? The cry of Tau Kappa Epsilon now that it has acquired a fire engine. This 1929 Reo truck made its first run in the football rally. Many brothers deserve credit for the work and time that they put in on it. Last spring the pumps were tested at the Alden Hydraulics Laboratories. Many renovations were made in the Teke Temple this fall. Almost all the rooms have been repainted and in many rooms radical changes have been made. Chef Joe has a new stove which can do justice to his great talents. Congratulations are in order for Roger Faulk who recently lost his pin. Where did it turn up? On Joannie Carlson—who else? Best wishes also go to Chick Roessler who gave a diamond to Miss Anne Gooding. Two more good Tekes bite the dust.

The brothers of Alpha Tau Omega began their social season by christening the new gameroom with a party with the girls from Becker. Bill Sweetser and Paul Gelinis drew all kinds of praise for the professional type job they did, but maybe they had their heart in their work. All the brothers enjoyed themselves and some found dates for the Varsity Club dance coming up this weekend. On Wednesday night, half the brotherhood descended upon Morey, not on one of those frowned-upon party raids, but instead a Becker dorm initiation. Everybody had a great time, except for the freshman girls. I noticed that several of the brothers were particularly interested in the art of proposing.

Eighty-five Dean Street is back to

normal now with the Brothers of Theta Chi fully recovered from the past Saturday night's blast with several BJC dorms. The evening was highlighted by varied selections from "Big Nick" Novaco on his electric guitar, accompanied by the "Frat Rats". This past weekend saw our Executive Committee on a trip to Middlebury College to visit our Beta Mu Chapter there. The purpose of this trip was to hold a conference with the leaders of the chapter. Late summer news . . . Brother Don Foly has left the ranks of the unattached after being pinned to Miss Penny Hoffman. Good luck from all of us.

A.S.M.E. Meetings Begin October 11

On Tuesday, October 11th, the WPI Student Section of the American Society of Mechanical Engineers will hold its first meeting of the 1960-61 school year. The main feature of the program will be a talk on "The Mechanical Engineer in Industry" by Mr. Henry Hut-

ton, the recruiting manager for General Electric in the northeast. Mr. Hutton is a graduate of Michigan State University and has worked for G.E. since 1931. In his present position he is responsible for co-ordinating General Electric's extensive technical recruiting in the region encompassing the New England and upper New York State colleges and universities. With this background he is well qualified to discuss the various types of jobs the Mechanical Engineer performs in industry. In addition to this, his talk will also touch on such subjects as training programs, salaries and provisions for advancement. The meeting, which will be held in Room 109 of the Higgins Laboratories,

will start at 7:15 and conclude at approximately 9:30 with refreshments.

All M.E.'s and freshmen considering Mechanical Engineering as a future profession are urged to attend. In addition to being helpful to freshmen by giving them a deeper insight into Mechanical Engineering this program will aid M.E. upperclassmen in deciding future electives and in choosing the type of job they will pursue after graduation.

The meeting, which will be held in Room 109 of the Higgins Laboratories,

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BETTER THINGS FOR BETTER LIVING...THROUGH CHEMISTRY

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GRIDMEN DEFEATED IN SEASON'S SECOND GAME

For the fourth time in four years, Worcester Tech has lost another hotly contested game to the Panthers of Middlebury College. Middlebury, up for their game on their Homecoming Weekend, staged a last minute rally and eclipsed the Engineers, 14-7.

Moe Rees of Worcester kicked the ball to Craig Stewart of Middlebury who carried it back to the 33-yard line where he was stopped by a swarm of Tech tacklers led by Les Cornell. Middlebury's possession of the ball was shortlived as Stewart of Middlebury fumbled. Mike Littizzio snagged the ball in the air and scooted 31 yards for a touchdown. As is customary, Worcester chose to kick with Moe Rees making the score 7-0.

It was not long, however, before Middlebury got back in the game with a 60-yard pass from Morse to Penantino for a touchdown. Middlebury went for the two points and made it via a jump pass to Gil Owren, the right end.

From this point on, the game was touch and go. Middlebury drove the ball well but once within WPI territory, they were halted time and again by an aggressive Tech line.

The second period was highlighted by two long drives, both of which failed to materialize for either team. Starting on their own 25, the Panthers started a drive that was to end on Tech's 33. Two long gains were made on passes, however, both were nullified by penalties. Middlebury at the outset was successful in running the ends, but WPI fortified its flanks and Middlebury backs found the going rougher. Many times, Jack Pisinski came from the opposite side of the field to smash a Middlebury back to the ground as he turned the end. Nevertheless, Middlebury continued to eke out enough yardage for the first down. Finally, on the Engineer's 33-yard line, Paul Sledzik fell on Gordon Van Ness's fumble to

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Jim MacKechnie Doing Fine Job As Soccer Coach

While most people think of football when they talk about fall sports another fall sport which is becoming increasingly popular in the United States is soccer. Although soccer is not played as extensively in this country as it is in Europe, especially in the British Isles, there are nevertheless many private and college soccer teams which are developing as time goes on. Worcester Tech is one of these colleges.

Each fall the team has a schedule of about ten games for which they have limited time to prepare. The job of preparing the best team possible out of the available candidates falls into the able hands of the two soccer coaches. While Alan King is well known around school, Jim MacKechnie is one of those many persons on the Tech Staff who does a lot of work with very little credit.

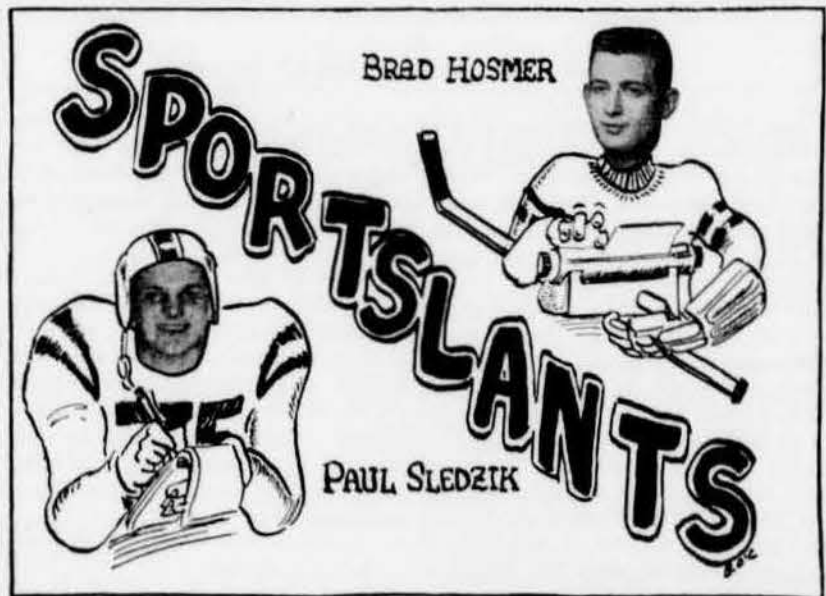


COACH JIM MacKECHNIE

Jim was born in Paisley, Scotland in 1915. One of a family of nine including five sisters and three brothers. He spent most of his life in this country. Jim has picked up the desire and skill of soccer which one can only get if he has been around the sport all his life. When Jim first came to this country at the age of twelve he had already had several years of priceless experience as a left full back for his grammar school team. After settling in Springfield, Massachusetts, Jim worked at a variety of trades and attended junior high school. His main interest was soccer. Changing to his favorite position of inside left, he played for various leagues and clubs around the Springfield area. By the time Jim returned to Scotland for six months in 1938, he had enough experience and finesse to play for such teams at St Mgrae and Ayre United. These teams compare to a Class A or B minor league baseball team.

Jim loves to talk about soccer, and between describing a game played in Springfield to telling of the feeling of playing in a large sports event in Scotland, one can easily see that he has a wealth of experience to draw from. Although he won't say must about it, it is easy to conceive that Jim must have a large number of well-deserved trophies and other souvenirs at his home. As an example, just during the past war years after Jim moved to Worcester in 1939—and spent six years in the Navy—he played for the Boston Dis-

See SOCCER COACH—Page 6



The large number of new men on the football team has made it impossible for coach Pritchard to effect a full offense as of yet. There are still eight or ten new plays which will be taught the team within the next few weeks. This should give the team a more varied offense and some plays that scouts of the previous week have not seen.

There are two reasons for the increase in passing by the football team this season. First, Fred Duval, quarterback, has three seasons of experience under his belt and this season, as a senior, Fred has poise and skill which are vital to any passing quarterback. The other reason for the increase in passing is the improved line play on pass plays. Coach Pat Biscaglia, an expert on line play, has taught the linemen many tricks of the trade so that the pass protection will be better. With improved pass protection the passer has more time to throw thus insuring a more accurate pass.

There are two backs on the team that the Tech fans have not had a look at thus far this season. One is a former North High back, Ron Gemma, who was probably the top back in the city last year. He has an injured leg right now and it is uncertain when he will be able to play. George Oldham is a transfer from Coast Guard who is unable to play this year due to his transferring from that school. George will, according to Prof. Pritchard, be a sound backfield prospect for next year.

The football coaching staff's work week starts on Sunday night at about six o'clock when the films from the previous day's game come in. These films are reviewed until about midnight and important details noted so that corrections may be made in the coming week of practice. The film is left in the projector all week and players with free periods come in and look at them. On the average the films are run for about forty to fifty hours a week. Nearly all colleges and many high schools take pictures of their games in order to pick out mistakes which have been made. Some of the bigger teams in the nation take two angles at the same time. This makes it possible to pick out details which may be obscured from one of the cameras but visible to the other.

Prof. Roy Bourgault of the M.E. department takes all of the Worcester Tech football pictures. He uses two cameras which gulp a total of about one thousand feet of film per game at a cost of seventy-five to eighty dollars.

Coach Al King of the soccer team tried some new strategy when the team clashed with MIT last Saturday. The team was employed in a strong defensive manner with the line broken up and shifted around to provide the greatest all around strength. The strategy was to hold the powerful opponent's offense down, and if this were accomplished to then strengthen the Tech offense in an effort to get goals. The plan seemed to work out well as the close three to two score would indicate. Bob Clark and Pete Borden booted in the two Tech goals. A few breaks would have made it a victory instead of a loss.

The IF volleyball league will be starting soon. The ten fraternities and the independents will form the league which plays a round robin schedule for the championship. In past years the league has run very successfully with hard play and good sportsmanship profusely shown by all teams. Generally the championship is not decided until the final handful of games, with upsets the rule rather than the exception. The players are generally very serious about the game and play as if life and death were at stake. Unfortunately at times the refereeing becomes a little lax. True, it is boring to referee game after game, but it seems that the officials whoever they be, should strive to miss not a call, though that be impossible, through inattentiveness. They should have complete understanding of what is going on and keep from making gross errors like some of past years. These errors cause arguments which spoil the game and disrupt play.

SOCCKER TEAM DISPLAYS SPIRIT IN INITIAL GAME

Last Saturday afternoon was one of those rare fall days that everyone dreams about. On this beautiful day, the Worcester Tech Soccer Team was host to M.I.T.

The game got under way at 2:30, due to the M.I.T. bus drivers having trouble locating the school.

Although play was dominated by M.I.T. for the first five or ten minutes, Tech made good use of its chances and converted their second shot for a goal and a one to nothing lead. It was a pretty length-of-field play ending when

Nations." As far as moving the ball out of their zone and into M.I.T.'s, Tech seemed to have little trouble. Once they encountered the M.I.T. defense their scoring punch seemed to slack off. After M.I.T. had built up a three to one lead on two scores and one free shot Worcester Tech ended the scoring when Bobby Clark kicked a free shot past the M.I.T. goalie. This, however, was with only four seconds left to go and the game ended with Tech on the losing end of a three to two score.



FAST ACTION IN CLOSE CONTEST

Pete Bordon kicked in the loose ball. From then on, the game see-sawed from one end of the field to another. It was apparent that the M.I.T. players had that little extra finesse which was noticeable in the close plays. This was due to their largely foreign team and as one Tech player put it, "It looks as though we are playing the United

In review, it was a very exciting game to the fans who turned out to watch. As usual there were some spirited moments of play. At one particular time Bob Clark of Tech and a M.I.T. player went up in the air to head a ball with the result that their heads not only met the ball but each other's

See SOCCER GAME—Page 6

DEAN'S LIST ANNOUNCED

WPI Registrar Athena Pappas announced the following statistics from the Dean's List for the second term of the school year, 1959-1960. Out of a total of 994 students, 98 men made high honors while 171 garnered honors for a total 27.06 per cent of the total enrollment. In comparison, the first term Dean's List boasted a total of 76 students having high honors and 146 with honors or 21.92 per cent of the college enrollment of 1013. In the case of the freshman class, there were 23 freshmen with high honors and 41 with honors for a total of 24.62 per cent of 260 men registered. This represents a slight increase over the first term figure of 22.51 per cent of 271 freshmen. Also, 37.90 per cent of the seniors, 24.69 per cent of the junior class, and 23.48 per cent of the sophomores appeared on the honor roll. The following is the Dean's List for the second term of the school year, 1959-1960.

CIVIL ENGINEERING DEPARTMENT

High Honors

SENIORS

Beebe, George S.
Carlson, Ronald A.
Kerr, William A.
Legall, Arthur E., Jr.
Sarajoti, Amphorn
Zimmie, Thomas F.

JUNIORS

Kachadorian, James
Pickens, Leonard E.
Rowe, Pierce E.
Wilson, Stanley L.

Honors

SENIORS

DiZoglio, Harry F.
Honer, Paul E.
Matson, Kenneth L.
Panananda, Anan
Remmer, Norton S.
Tetreault, Bernard L.
Willbrant, Bruce G.

JUNIORS

Beaudry, Robert R.
Blanchard, Kenneth J.
Crawford, Robert C.
Gladstone, Douglass D.
Migneault, Alfred J.

SOPHOMORES

Hosmer, Richard B.
Luoma, David A.
Martin, Peter J.
Rafferty, Michael E.
Sharon, Paul A.
Woodward, Herbert P.
Zamost, Jerry

FRESHMAN

Zoli, Theodore P., Jr.

CHEMICAL ENGINEERING AND CHEMISTRY DEPARTMENT

High Honors

SENIOR CHEMICAL ENGINEERS

DiPalma, John
Gibbs, Jerry B.
Kowalewski, Alexander J.
Loring, Richard A.

SENIOR CHEMISTS

Condrate, Robert A.
Harding, Richard P.

JUNIOR CHEMICAL ENGINEERS

Christopher, Harold A.
Faucher, Joseph E., Jr.

JUNIOR CHEMISTS

Parker, Gordon M.
Wilkes, Charles E.

SOPHOMORE CHEMICAL ENGRS.

Gordon, Michael E.
Meister, Bernard J.

SOPHOMORE CHEMISTS

Cramer, Marvin B.
Grocki, John J.

Honors

SENIOR CHEMICAL ENGINEERS

Bryant, Douglas E.
Ganz, Manuel
Haley, David B.
Leonard, Joel I.
LoVetere, Arthur J.
Russell, Edward J.
Schneider, Peter H.
Schoppe, Bruce E.
Venuti, Joseph E., Jr.

SENIOR CHEMISTS

Gould, Paul R.
Wester, Richard T.

JUNIOR CHEMICAL ENGINEERS

Cushing, Bradford S.
Ogorzalek, John F.

JUNIOR CHEMISTS

Carlson, David P.
Swaine, James W., Jr.

SOPHOMORE CHEMICAL ENGR.

Forsberg, George H.

SOPHOMORE CHEMIST

Hall, Bruce T.

FRESHMAN CHEMIST

Barss, Peter

ELECTRICAL ENGINEERING DEPARTMENT

High Honors

SENIORS

Arnold, Ernest W., Jr.
Berger, Lawrence C.
Driscoll, Carleton D.
Hackendorf, James G.
Mudgett, David A.
Powers, Edward J., Jr.
Roberts, Stuart P.
Strzelecki, Leonard S.
Teixeira, James F.

JUNIORS

Alatalo, Harold W.
Dunklee, Alfred L.
Fay, James E.
Johnson, Richard W.
Postma, Thomas E.
Pottala, Erik W.

SOPHOMORES

Baruzzi, Ronald F.
Berthiaume, Adrien H.
Brosnahan, Daniel F., Jr.
Fado, William R.
Herrick, Ralph A.
McIntosh, Robert E., Jr.
Newton, Richard J.

FRESHMAN

Lloyd, Kenneth J.

Honors

SENIORS

Abraham, Raymond P.
Abramowitz, Mark H.
Alpern, Joshua C.
Bayliss, Paul W.
Chang, Robert L.
Fenwick, William C.
Ferro, Armand P.
Goodfader, Robert W.
Jacobs, Irwin
Kloiber, Frederic W.

Honors

Lund, Walter S.
Morris, Derek S.
Reed, Alan T.
Seastrom, Bernard J.
Stanhope, Chester W.
Stefanini, Edward J.
Talbot, Thomas J., Jr.
Young, Paul R.

JUNIORS

Carpentiere, Joseph P.
Freeman, Howard R.
Ginsburg, Norman I.
Gordon, Martin S.
Israel, Lawrence L.
Johnson, Allen L.
Kamlet, Arthur S.
Kroll, Arthur W.
Lewis, John B.
Roseen, Alan C.
Ryerson, John L.
Wilmot, Donald W.
Wrubel, Joseph N.

SOPHOMORES

Abelson, Sheldon S.
Fitzpatrick, Joseph W.
Furhovden, Terry
Gagne, Ronald C.
Giroux, Joseph R.
Heald, Roswell J.
Jorgensen, Neil J.
King, John E.
Pooley Franklin S., Jr.
Rapelje, Harry T.
Rheault, Eugene A.
Wolenski, Joseph H.

MATHEMATICS DEPARTMENT

High Honors

SOPHOMORES

McDonnell, John J.
McGuinness, David J.

Honors

SOPHOMORES

Beauregard, Laurent A.
Engstrom, Paul E.

MECHANICAL ENGINEERING DEPARTMENT

High Honors

SENIORS

Byron, Paul M.
Cadwell, George H., Jr.
Harper, Donald L.
Hildick, William K.
Morgan, Benjamin B.
Wiot, Edward R.

JUNIORS

Bingham, Peter K.
Economou, Michael V.
Jalil, Asjed A.
O'Brien, Frederick T.
Peirce, William B.
Zidziunas, Rimantas A.

SOPHOMORES

Peistrup, James N.
Reynolds, Harold C., Jr.

Honors

SENIORS

Augeri, Francis G.
Brandt, Henry W.
Chechile, Robert A.
Doyle, Paul J., Jr.
Geoffroy, David R.

Hester, William F.
Houston, Thomas
Kasprow, Robert F.
Lindberg, Edward E.
Macomber, Stuart W.
Poole, Thomas A.
Sappet, Edward J.
Weaver, Elbert K.

JUNIORS

Anthony, William L., Jr.
Dowling, Edward F.
Eitel, Frederick G.
Federico, Richard H.
Finlayson, David F.
Herron, John H.
Marra, Frank
Root, Donald C.

SOPHOMORES

Anusavice, Kenneth J.
Booker, Bradford J.
Chiavaroli, Neil L.
Forand, James L., Jr.
Hall, Robert H.
Pyle, Edmund B., III
Reinert, William H.
Sanger, Donald F.
Simmon, Bruce A.
Szwarc, Anthony F.
Wakefield, J. Lee
Weber, Edwin, Jr.

FRESHMAN

Parker, James A., Jr.

PHYSICS DEPARTMENT

High Honors

SENIORS

Bearse, Robert C.
Hayden, William L.

JUNIORS

Guertin, Ralph F.
Lerman, Steven H.
O'Shea, Richard L.
Seamon, Robert E.
Storti, George M.
Uotinen, Veikko O.

SOPHOMORES

Belanger, Charles F., Jr.
Carosella, Carmine A.

Krikorian, Kenneth C.
Reynolds, John H.

Honors

SENIORS

Husisian, Leon, Jr.
Jebens, Robert W.
Letteney, Ronald L.
Rago, Leonard F.
Richard, Ronald J.

JUNIORS

DiGiallonardo, Joseph A.
Foxhall, George F.
Nordborg, Paul E.
St. Onge, David L.

SOPHOMORES

Friedman, Jay R.
Laliberte, Kenneth J.
Quirk, James D.
Tunney, William J.

FRESHMEN

High Honors

Backer, Kenneth A.
Bascom, Laurence N.
Behn, Robert D.
Bierlmaier, Hans A.
Chutoransky, Peter Jr.
Desmond, Robert M.
Dunklee, David E., Jr.
Goodale, Bruce G.
Gowdy, Robert M.
Hoffman, Allen H.
Kaminsky, Jay
Kubick, Frederick L.
McGee, Roger C.
Machonis, John, Jr.
Pender, Daniel, Jr.
Pickett, Robert A.
Porter, Robert P.
St. Onge, Richard N.
Schroeder, Henry B., Jr.
Sistare, John H.
Spring, Francis E., Jr.
Stebbins, Peter G.
Winans, Roger M.

Honors

Allegrezza, Anthony E., Jr.
Barrett, Alfred H.
See DEAN'S LIST—Page 6



Cheerless leader

Not a "rah rah" left in him! He's just discovered there's no more Coke. And a cheer leader without Coke is as sad as a soap opera. To put the sparkle back in his eye—somebody!—bring him a sparkling cold Coca-Cola!



BE REALLY REFRESHED

Bottled under authority of The Coca-Cola Company by COCA-COLA BOTTLING COMPANY OF WORCESTER

A TOAST TO THE FAMISHED ENGINEER!
He can expound for hours on cubes and powers solve complex equations on molecular abrasions; And when he craves calories despite depleted salaries, he's welcome to meander down to the HIGHLANDER where our food is much, much better than our verse.

"VARIETY IS THE SPICE OF LIFE"
THE HIGHLANDER
MEAL TICKETS OFFER VARIETY AND SAVINGS plus

Open daily from 5:30 A.M. Around the clock to 2:00 A.M.

FOOTBALL GAME—From Page 4
halt the Panther's march in that period.

Tech's offense met the same success. Time and again the Engineers would drive into Middlebury's territory only to be thwarted by pass interceptions and fumbles. Tech's deepest penetration carried the ball to Middlebury's 24. The Tech backfield, however, had difficulty holding on to the pigskin and no score resulted.

In the third period, the Worcester team again had two big chances to score. The first big break came with Jack Pisinski's chance to become a hero. Jack grabbed the fumble in mid-air and chugged 52 yards to the Middlebury 15-yard line. The ball never got any further as Worcester fumbled on the first play in scrimmage. Middlebury carried the ball to their own 20-yard line, where in the course of three plays the ball changed hands two times, momentarily affording Tech another opportunity to score.

The sea-saw ritual continued for the rest of the third quarter and the greater part of the fourth. It was not until the last seconds of the game that Middlebury finally got over the goal line for a second TD. Even then, it took Middlebury four plays to score from the two-yard line. This in itself is a

tribute to the fine WPI line. Middlebury failed on the conversion attempt and the game ended 14-7.

As usual, Pisinski and Rees were standouts for Tech. Very bright performances were also given by a trio who will no doubt have a place in Worcester's football future. Bill Shields, of Worcester, played an aggressive game at tackle and guard and could possibly be the cork needed to plug the hole in the Worcester Tech dike. Paul Vajcovec and Dick Ryzek also turned in stellar performances.

SOCCKER COACH—From Page 4

trict League, the Swedish American Club and The Scandinavian Club. All of these teams won various trophies such as the State Cup, the Grievias Cup and their respective league trophies.

Briefly discussing American and European soccer Jim said that although most European teams have more finesse than those from the states, it's the running and conditioning of the European teams that finally wins out. He is a firm believer that running and conditioning are two-thirds of the game and that "if you can outrun the other fellow by a foot you have him".

At present, Jim is working for Norton Company where he has been since 1939 with the exception of six years in the Navy.

While in the service, he became an aviation machinist first class. He lives with his wife, Eileen, whom he met in Worcester, and married on June 27, 1942. His hobbies include fly fishing for which he ties his own flies and both Jim and Eileen have an occasional hand at gardening. The big project now is being a patient worker in remodeling the rooms of their home. Jim likes all sports but of course his first love is soccer.

He has been a coach here at Tech for about twelve years, during which time he has come to really enjoy coaching and Worcester Tech in general. One of the main things that Jim likes about Tech is that studies are put ahead of sports in the student's planning. Also in these twelve years Tech has come to know and like Jim MacKechnie as well as appreciate the work which he has done.

SOCCKER GAME—From Page 4

and both players were shaken up. The performance of the Tech eleven was by no means discouraging.

The players did seem to bunch up in certain places and thus leave men open. This fault is something which can be overcome with a little special work in the coming week's practice. No one person can be singled out as the game's outstanding player, but it can be said

that all of the lettermen played well. Freshman goalie Tom Ganley turned in a fine job, kicking out several good M.I.T. shots. With Ganley and a few other new freshmen prospects to bolster the veterans the team should have little trouble in winning its share of games this year.

SEMINAR—From Page 1

Bearing Testing and will include a description of "Morgoil" bearings, operating conditions, and the design of a full scale bearing test machine.

The schedule for the first term is:

Tuesday, October 4
"Morgoil Bearing Testing"
Tuesday, October 18
"Systems Engineering—What Is It?"
Tuesday, November 1
"Systems Engineering—What Is It?"
Tuesday, November 15
"Experimental Machine Design"
Tuesday, November 29
"The Behavior of Metals Under Cyclic Strain"
Tuesday, December 13
"Mathematics For Engineers in the Present Age"
Tuesday, January 10
"The Principle of Minimum Entropy Production"
Tuesday, January 24
"Orbital Motion"

TECH SENATE—From Page 2

A discussion followed as to an appropriate place to hang the plaque listing winners of the Tech Senate Award. The Tech Senate Awards are presented each year to between three and seven men in the senior class who prove themselves to be the most outstanding men of the class. For several years now the plaque has not been displayed for lack of a place to hang it. George Foxhall will contact Dean Downing in order to get any ideas he might have.

Dick Adler suggested that a trophy be presented each year in the name of Percy Carpenter, deceased Athletic Director. The trophy would be presented to the senior best sportsman with the stipulation that it not be the same person who receives the Best Athlete Award. Moe Rees will see Prof. Pritchard for his suggestions and see what types of trophies might be suitable.

An Assemblies Committee composed of Brad Hosmer, Vic Castellani, and Denny Snay was formed. During the October 12 Assembly period Class Meetings will be held. At this time the president of the Junior Class will officiate the Freshmen Class meeting in order to direct the election of a Class Chairman and two non-voting Tech Senate Representatives.

It was brought to the attention of the Senate that although the Speaker of the Council of Presidents represents almost the whole student body he is only a non-voting member of the Senate. A motion was made and passed that the revised writing of the Tech Senate constitution contain provisions for the Speaker of the Council of Presidents to have a vote in Senate meetings. George Foxhall will be in charge of revising the old constitution.

DEAN'S LIST—From Page 5

Beaulac, Joseph V.
Beck, Charles M., II
Benton, Kenneth C.
Bizzigotti, Peter A.
Borden, Carleton W., Jr.
Bova, David P.
Budzyrna, Walter J.
Campbell, Alexander B.
Dale, Allen S.
DellOrfano, Richard M.
Donahue, Stephen D., Jr.
Flood, Roger D.
Garvais, Richard A.
Gerson, Michael
Goselin, John H.
Howe, Philip M.
Hoyen, Harry A., Jr.
Kalinowski, Edward J.
Kashnow, Richard A.
Kennedy, Francis E.
Kuehn, Roland B.
Kulig, Michael A.
Lewis, William E.
Maddocks, Roger H.
Malbon, Robert M.
Mozden, Stephen P.
Murphy, Robert E.
Nagy, Stephen W.
Norton, Richard J.
Olsen, Kenneth
Ong, Peter Y.
Person, Russell E.
Platow, Edward A.
Polewarczyk, Edward J.
Reynolds, Frank S.
Ryan, Terrence G.
Ware, Gordon M.
Waxman, Gerald D.
Wright, Harold H.

CAMPUS WORLD—From Page 2

the six year period the rate of women disciplined was less than the number of men, and the six year average shows that while 26 men per thousand find themselves disciplined for breaking the rules, the average among women is only 18.

NEW HOCKEY COACH—From Page 1

Coach Yankee has stated that no sweeping changes will be made in the style of Tech's hockey during the coming year. However more emphasis will be placed on hard and faster skating and also on power and position hockey. Coach Yankee says that he is looking forward to a promising year due to returning veterans, and by the increased interest in hockey here on campus. He invites all the students and faculty to follow Worcester Tech's Hockey Club down at the Worcester Arena during the coming year.



Telephone engineer Bill Pigott, left, and helicopter pilot plan aerial exploration for microwave tower sites.

"I ENGINEERED MICROWAVE TOWER LOCATIONS ON MY FIRST ASSIGNMENT"

When Bill Pigott knocked on the door of Pacific Telephone, he had two big assets. One was an electrical engineering degree from Seattle University. The other was a craving to jump right into vital engineering problems.

It was not long before Bill was exploring Washington's rugged Cascade Range in a helicopter to find sites for microwave relay towers—part of a multimillion dollar telephone construction job. Today, it's considerable satisfaction to him to see these towers spanning the mountains, knowing that his planning helped put them there.

Other important assignments followed: engineering maritime radio systems, SAGE systems—figuring engineering costs for Air Force Titan missile bases.

"Our people respect a man's engineering training—you really get a chance to show what you've got on the ball," Bill says. "I was up to my neck in tough engineering problems right from the start."

If you want a job where you put your training to work from the day you hang up your hat—you'll want to visit your Placement Office for literature and additional information.



"Our number one aim is to have in all management jobs the most vital, intelligent, positive and imaginative men we can possibly find."

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