

# EXCELLENCE AWARD--AEP

## Founding Fathers Honored On Tech's Eightieth Anniversary

### President's Address And Wreath Placing Highlight Observance

It was exactly eighty years ago on November 11, 1868, that the "Free Institute of Industrial Science", known today as the Worcester Polytechnic Institute, officially opened its doors. To commemorate that important occasion, the Institute celebrates Founder's Day each year as a college holiday.

In observance of Founder's Day, President Cluverius spoke on "Things That Made Worcester Tech Possible" at the third General Assembly on November 10. At eight o'clock of the 11th, President Cluverius, Dean Swan, Jim O'Regan, and Steve Spaneas will place wreaths on the graves of three of the Tech co-founders in Rural Cemetery. The co-founders were David Whitcomb, the Reverend Seth Sweetser, Ichabod Washburn, founder of the American Steel & Wire Co., and Stephen Salisbury, giver of the campus land and generous contributor to building funds and endowments.

## Peddler Sales To Open November 17

### School's Subsidy Makes Colored Photos and Price Reduction Possible

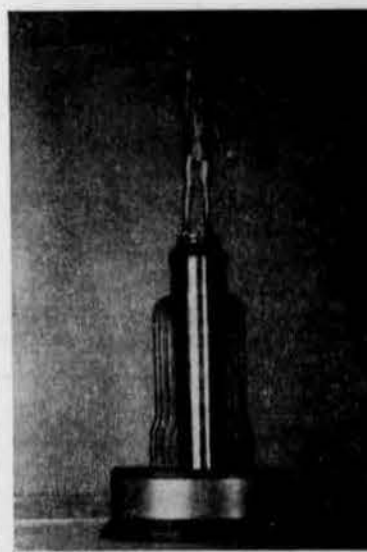
Fraternity life, formal weekends, rope pull, homecoming football games—all these and many more of the most cherished memories of college life are perpetuated in the college yearbook. This book is a veritable encyclopedia of pictorial reminiscences which brings back nostalgic memories of long-departed friends, "hallowed halls," football rallies, the "house". The *Peddler*, our own college publication, will open its sales campaign on Nov. 17, and for these reasons everyone owes it to himself as well as to the hard-working members of the *Peddler* staffs to contribute his financial support in the form of a deposit on one of these fine books. Even those who are not slated to graduate with the Class of '49, will in later years enjoy mentally renewing friendships with upper classmen, or recalling their former prowess as they gaze at the photo (Continued on Page 4, Col. 1)

## Journalistic Society Elects

The Worcester Polytechnic Institute's chapter of Pi Delta Epsilon, national collegiate journalistic-honorary society, announced at this morning's assembly its selections for membership for the 1948-1949 college year. Recognized for outstanding work in college journalism were seniors Francis Joseph Bigda, Walter George Dick, William Allen Julian, Raymond Joseph Remillard, Malcolm Austin Sanborn, Gino Joseph Santandrea, and Donald Weikman.

Fran Bigda holds positions of importance in both the *TECH NEWS* and the *Peddler*, being News Editor of the former, and a Senior Editor on the latter. Walt Dick is an assistant to the Business Manager of the *Peddler* and has done marvelous work in the securing of advertisements for the *Peddler* over the past two years. Bill Julian is, like Bigda, a double threat, being Secretary of the *TECH NEWS*, and Managing Editor of the 1949 *Peddler*. Ray Remillard is the Photography Editor of the 1949 *Peddler*, and is the man who was responsible for the excellent job of setting up the informals in the 1948 *Peddler*.

## Theta Kappa Phi Close Second In Race For Trophy With Lambda Chi Alpha Third



## Alpha Epsilon Pi Takes Top Honors In Scholarship

### Theta Kappa Phi First In Activities Followed By PSK and PGD

The results of the competitive efforts of our nine fraternities during the past academic year have produced a new claimant to the much coveted President's General Excellence Trophy. The newcomer to the ranks of the few with their names inscribed on the trophy is Alpha Epsilon Pi. Previously Phi Sigma Kappa was awarded the trophy and Theta Kappa Phi was the recipient for the past two years. A.E.Pi's fine scholastic standing was one of the most decisive factors in their winning the prize.

A.E.Pi led its nearest competitor for scholastic honors by 1.52 points with an average of 76.41, this ranking entitling them to the one hundred dollar first prize. Lambda Chi Alpha walked off with second honors in scholarship with an average of 74.89, thus winning the seventy-five dollar prize. The other houses followed as listed: TKP 74.47, SAE 74.40, ATO 73.98, SPE 73.78, PSK 73.47, TC 72.71, and PGD 72.20.

The President's Trophy, first presented in 1938 but discontinued during the war, was presented again last year. (Continued on Page 4, Col. 2)

## Pi Delta Epsilon To Sponsor Song Fest November 20

### Dance In Commons Will Follow Competition Among Fraternities

On Saturday night, November 20, the fraternity glee clubs will assemble in Alden Memorial to compete for the recognition of the top songsters on the campus.

Although the selections are still in the tentative stages, a few of the houses have submitted a list of songs which will probably be sung. They are as follows: Phi Gam, "Here's to Good Old Delta" and "Brothers Sing On"; SAE, "The SAE Marching Song" and "Navy Blue and Gold"; Theta Chi, "Dream Girl of Theta Chi" and "Slide Rule Blues"; SPE, "The Sig Ep Canoe Song"; and ATO, "The Sweetheart of ATO".

Each glee club, consisting of from eight to ten men, will sing two songs, one of which must be a fraternity song and the other a song of the fraternity's own choosing. Upon the presentation of the award, the winner of the contest may sing either one of the previous songs or a third song.

The judges will be Mr. F. E. Bouvier, director of music at Holy Cross College; Mr. Stanley Norwood, director of music of Worcester Public Schools; and Mr. Clifford E. Green, director of music at W.P.I. There will also be an applause meter on hand to assist with the judging.

Following the song fest there will be a dance in the Sanford Riley Hall Commons. Music will be supplied by the Boyntonians and dancing will continue until midnight.

## The "Bold Look" For Men New Trend on Campus Cigars and Polka Dots a Must For Joe College

NEW YORK — The college man should now have in his wardrobe at least one each of the following: cloth-of-gold sport shirts with three-quarter length sleeves; brocaded silk pajamas; Picasso pink sweaters with plunging necklines, and polka-dotted suspenders.

So say fashion designers in New York, who decided this fall it was time for a change in men's bib 'n tuckery.

Hand-in-hand with the revolutionary change, the first in fifteen years for the male sex, is predicted a new trend in college smoking habits—the switch to the cigar.

The sudden turn to color, oddly enough, tends to bring out the "beast" and the "best" in man, simultaneously . . . by accentuating what fashion authorities call his "lustiness". A rugged tan glows threateningly under the challenge of pink. Muscles look twice as powerful set off by a masculine polka dot, king size.

The new popularity of cigars is a style note that cropped up less suddenly. It was an outgrowth of

the war, when men grew more robust, needed a more robust smoke.

Dr. Eugene Kahn, professor of psychiatry at Yale University, analyzed it this way: "The lusty are the people with strong appetites, who genuinely and thoroughly enjoy all the good things of the earth, and with them smoking. Lusty men enjoy quantitatively and qualitatively a choice meal, a fine play or concert, a good cigar". The tense type, he adds, turn to cigarettes.

Last spring, when designers first brought out their wardrobe changes, they feared male resistance, so they flattered the gentlemanly ego by hinting it was the "bold look".

Now, the "bold look" is scheduled to continue. Dozens of new gimmicks have been added—including two much-promoted colors for suits, hats and shoes. They are walnut brown and navy, which is a combination of navy and aviation blue.

Suits for winter have lapels that spread an inch wider on either side of the manly chest, each lapel sporting a one-inch welt seam at the edge. Suits are cut easier, with more full-

ness through the chest. Not only suspenders, but ties and garters have taken on polka-dots. Not the feminine type dots. Fashion authorities call them "dubloon dots", because they're a full inch in diameter, and they're patterned against bold, solid color backgrounds.

New shoes are heftier, with black soles and uppers in a new shade called midnight murec (that's a deep reddish-brown). With the black and murec duo, the young man can wear black, brown or grey.

Socks to go with these shoes are extremely wide-ribbed, with large flashy diamonds, or checks "as bold as a gambler's vest." Hats pick up the color of the general ensemble by matching the band around the crown, and the band around the brim, to the color of the suit.

The final note in the college fashion picture—that cigar—has changed too. Not to be outdone by clothing makers, the cigar manufacturers have put into their lines a special collegiate style: a new, smaller edition of the popular panatella designed especially for casual campus smoking!

## Sports Dance Features Boyntonians

Lack of support on the part of the student body prevented the Sports Dance held in Alden Memorial Saturday night, November 6, from being a financial success. Socially, however, the dance lacked nothing.

Everyone of the eighty couples who attended lauded the fine playing of the Boyntonians headed by Ed George. Particularly well done was "Harlem Nocturne", "What's This", and "Solitude". Featured several times during the evening were Ken Parsons on the trombone and Don Dodge on the trumpet.

The purpose of the Sports Dance was to provide funds for the Fall Sports Banquet at which time letters and sweaters will be awarded to members of the football, soccer, and cross country teams.

# TECH NEWS

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## Editorial

Tech's gridiron campaign has ended, football suits will soon be in mothballs but the fighting spirit of the team will be long remembered. True we didn't win many games, only one in fact, but what we lacked in scoring punch we more than made up in spirit. In many games we outfought and outstatisticked our opponent, only to lose out in the scoring column, where ball games are decided.

The caliber of play this year was a decided improvement over that of the past few years. This year's team featured a good attack, excellent line play, heads up ball, and the ability to cross the goal line. If next year's team plays as well, Tech men will have plenty to cheer about.

\* \* \*

It is with deep regret that we note that last Saturday's sports dance was a failure. It had been the Athletic Council's intention to run the dance to help defray the cost of the sports banquet, but so few attended that a profit was not realized. Many Tech students complain about the lack of social activities on the Hill, and yet when the opportunity presents itself they don't take advantage of it.

\* \* \*

The Economics Department wishes to announce that on Tuesday, November 16, there will be a meeting of all students interested in the new class in foreign affairs started among the various colleges in Worcester. This class will be under the direction of Mr. William A. Beltz, Foreign Trade Consultant of the Worcester Chamber of Commerce. This meeting will be held for the sole purpose of arranging places and times for the monthly meetings of this organization.

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## Fraternity News Bits

By NORM BROWN

The shovel may still be damp from laying the football season to rest, but the social season is still forging ahead under full steam.

Sig Ep celebrated our season's farewell game with Arnold by throwing the biggest brawl they've had thus far. A buffet supper started the ball rolling and put everyone in a mellow mood, after which came a wide variety of party games—'nuff said. Following these games, the exhausted brothers were served refreshments by their dates. Sounds as though they need some lessons in technique.

Homecoming was a tremendous success at A.T.O., with the house turning out 100% for the Trinity game, which was followed by a big feed. Their decorations portraying several witches boiling Trinity in the pot inspired plenty of spirit for the game. "Shorty" Wheeler balanced all of his chem equations last week and discovered that Virginia Paquin would be an excellent solvent for his problems. Result: Ginney is proudly displaying a beautiful engagement ring. Ed Knight's feet haven't touched the floor since he hung his pin on "Winnie" Kennet. Bob Ferguson dropped in to see the boys; he's temporarily a math teacher at Orange High School.

Theta Kap is proud to announce that it has received the National T.K.P. efficiency award. This is just one of the many National T.K.P. competitions in which Worcester Chapter has come out on top. The social committee has planned a big shindig for November 13, but the details are strictly hush-hush.

The Worcester County Alumni Association of L.C.A. held its fall luncheon meeting at noon, Saturday, November 6; the majority of those who attended stayed to see the Arnold game. "Fireball" Emerson has performed many experiments in the high speed field with his Auburn, but at present he is engaged in determining the length of time for which the thing can run without water. While he feels that his results to date are inconclusive, quadruple integration of the cosine function indicates that an end point will be reached which, if exceeded, will result in the necessity of removing the engine from the street with a broom.

After the Arnold debacle, which we will avenge next year, the boys from S.A.E. headed for Purgatory Chasm with their dates and all the fixings incidental to a scrumptious barbecue. S.A.E. will hold its Pattie Murphy party on November 13. "Pattie" Murphy is a hypothetical son of Erin who took four over the nine before realizing that the stuff was anti-freeze, resulting in his premature demise. His last rites constitute the theme of the party. The "funeral" procession will pass as many fraternity houses as possible as it winds its way across the campus, and everybody is invited to join in. This is a swell idea, so let's have a big turnout.

## THOSE WERE THE DAYS . . .

By ROLAND BEDARD

Today the Washburn Shops play an important part in Tech life. While most of us are familiar with the various shops, and are gaining much from the courses taught there, many interesting aspects of their history are not widely known. Serving as a source of learning since their construction, they have simultaneously functioned as a commercial enterprise.

Ichabod Washburn, prominent Worcester industrialist, whose deep interest and generosity made the project possible, completely supervised its design and construction. His plan was to erect a machine shop where student apprentices would be instructed in wood and metal work, and gain sufficient skill to carry on a business upon graduation. The original building consisted of a three-story unit containing the iron and woodworking shops, and an ell-shaped wing which housed the two boilers and a steam engine. Attractively styled in pressed brick with an ornamental tower, it was built while Boynton Hall was being erected close by. The project was completed early in 1869.

From the beginning the quality of teaching was high, and the success of the articles manufactured were a credit to Superintendent Milton P. Higgins and his capable staff. One of the first products was an adjustable drawing stand for engineers and artists, which proved popular on the market for many years, and is still

being used today at Tech. The machine shops constructed both engine- and light speed-lathes, as well as screw machines, grinding machines, and drills. Gold medals and first prizes were awarded these drawing stands and lathes at the New York, Baltimore, and Worcester Fairs during the seventies. Further fame for the Institute was earned at the Philadelphia Centennial Exposition in 1876, when our exhibit gained the highest award in its field.

Another outstanding product of the shops was a plunger elevator invented by Superintendent Higgins and Charles Morgan. Several of them were installed in Worcester buildings, and received wide acclaim. As the elevator business grew, our production became more profitable, and long-lift, high-speed, passenger elevators became perfected. During this period, rock drills and cylinder sinking apparatus were also being perfected.

Meanwhile the school had become larger, and expansion of the shops was necessary to accommodate increased enrollment. This demand was met by additions of 33 feet at either end of the main building, which temporarily filled the need. However by 1892 the shops were again overcrowded, and plans for more space were considered. The final solution was the construction of a new building attached to the original shops.

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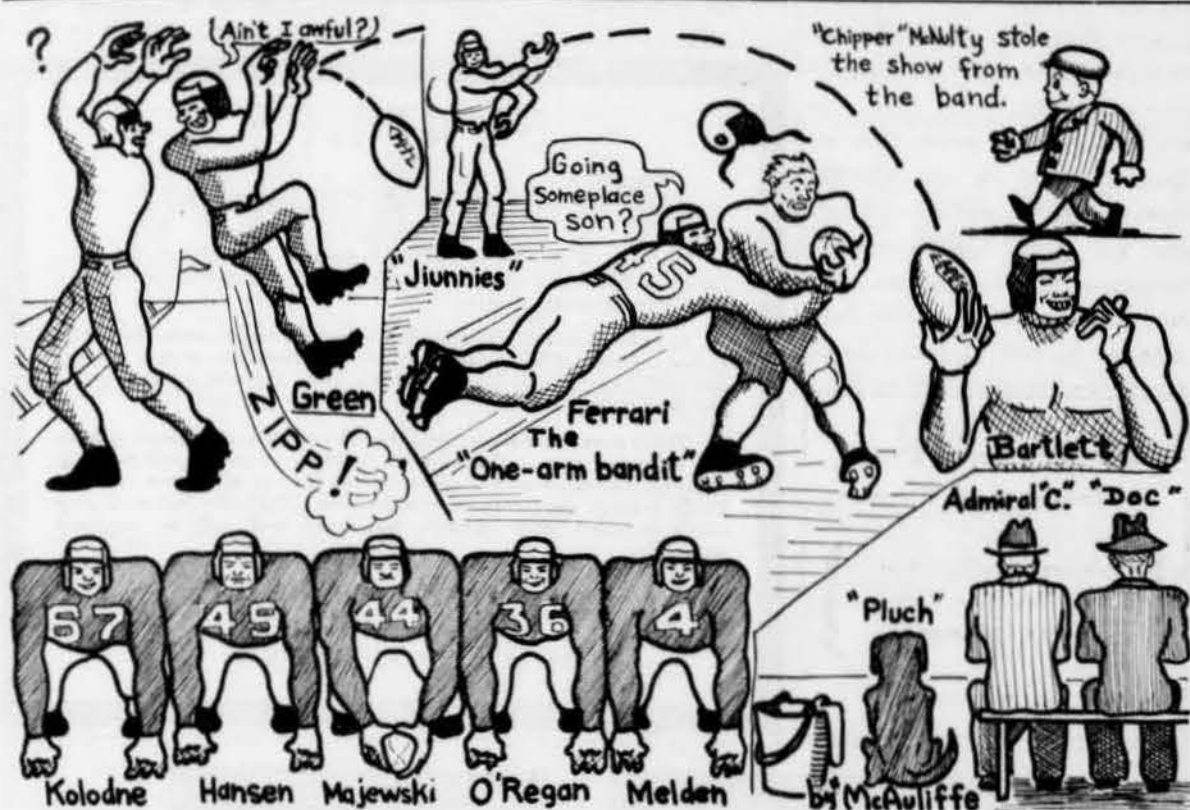
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# SPORTS

November 10, 1948

TECH NEWS

Page Three



## ARNOLD GYMNASTS EDGE ENGINEERS, 7-0

Five Seniors Play Final Game in Season's Finale Against Connecticut Team: Ferrari, Hansen, Green, and Kolodne Stand Out

If you missed Tech's '48 gridiron finale last Saturday, you missed a classic! The fight and guts that the team showed against Arnold, and against every gridiron opponent this year, won't be forgotten for a long time. The final score was against us, 7-0, but it was the only department in which the Red and White Gymnasts topped us.

The home team reeled off 14 first downs against 6 for the visitors, netting 187 yards total by rushing. This plus the 20 yards gained from two Jiunnis passes gave a total yards gained of 207, compared to 152 yards for the Gymnasts. Rick Ferrari, half of Tech's high-stepping one-two punch, gave another of his consistently terrific performances, but we have to take our hats off to the "Scooter", Howie Green. After gaining 28 yards in 9 tries in the first two stanzas, Howie completed a brilliant football career at Tech in the second half by rolling up 73 yards in 7 tries for a sum total of 101 yards in 16 attempts, or 6.3 yards per try. Rick picked up 77 yards in the course of the afternoon, for a 4.5 yard average.

### Arnold Tallies

The Red and White jumped into a quick lead which they maintained for the remainder of the contest when a kick by Tech from their own 21 traveled but three yards up the field, and Arnold took over on the Tech 24. Four plays later, including a 13 yard thrust through the middle by Carmen Tosches, Spinelli scored from the 6. Young kicked the PAT to make the score 7-0, Arnold.

That ended the scoring for the afternoon, but the thrills were yet to come. Two minutes before the end of the first half, the Engineers drove to the opposition 8 yard marker. But on first down a backfield fumble ended the threat as Tosches recovered for Arnold.

### Tech Holds

The second half offered a goal line stand by the Engineers that left the Tech rooters limp. After a kick by Joe Jiunnis had been taken by the Gymnasts on their own 46, they drove to a first down on the 6 yard line of Tech. Here the Tech defense stiffened, and the home team took over the ball on downs 1 yard short of paydirt. This drive by Arnold featured the running of Tosches and Foti, a tremendous scatback. Arnold made 4 first downs, or two-thirds of their afternoon's total, in covering the 54 yards.

### Green Shines

With their backs against their own goal posts, Tech threw their scoring machine into high gear. Howie Green was the spearhead of the assault, covering 51 yards in five plays by himself. However, with the ball on the visitor's 40, Tosches again strangled the Tech threat with his second interception of the afternoon. Tech got their hands on the ball again in four plays on downs, but another interception, by Cesareo,

ended the last hopes of the Tech team as the whistle blew two plays after.

### Senior's Last Game

Five seniors put away their cleats after this their final intercollegiate football contest: co-captains Howie Green and Harry Melden, Jim O'Regan, Joe Winslow, and Harry O'Donoghue. We owe these grand guys a lot for all the time and effort they've put in trying to instill some of the old Tech spirit in the present generation of Tech men, and to regain Tech's prestige in intercollegiate ranks. After a couple of fruitless years, they've succeeded this year in turning out a team that we are all proud of. If they retain this same determination when they leave the hill, they can't miss.

### Hansen, Kolodne Terrific

Al Hansen and Walt Kolodne also come in for their share of praises. It must have been confusing for the Arnold quarterback to pivot and see two strangers in the backfield. And we can't leave you without saying a word or two about Rick's beautiful-to-see flying tackles. Time and again he nailed potential enemy ground gainers before they could get any steam up.

That ends the football season on the Hill for another season. The past two months have brought in their wake a new era of Tech athletic activities. To each and every one of those who gave up their time willingly to help make the season what it was, from all of us—Nice going, guys! Let's not forget to include the great coaching job turned in by our two coaches, Bob Pritchard and Charley McNulty.

## LCA CAPTURES TENNIS TROPHY

Hail the new champions! The Interfraternity Tennis Trophy, which last year reposed in state at SAE, has taken wing and found a new home on the heights of Trowbridge Road under the roof of LCA. As far as tennis was concerned, the Lambda Chi team of Frank Emerson and Verne Russell had all the prerequisites for the course and graduated summa cum laude, with an unblemished record of eight victories.

Definite possession of the coveted silverplate was decided on the final day of the season when LCA met last year's big wheels, SAE. After losing the initial set 3-6, the current laurel bearers surged back to capture the decision and the loot, 6-3, 6-2. Lambda Chi also figured in the match that will undoubtedly win

marathon honors in the current campaign. The other principals involved were SPE, represented by Fred Besselièvre and Pat Skidmore, and very close indeed did they come to driving Lambda Chi's ship of state onto the jagged rocks. After losing the first set in short order, 6-1, the Sig Eps rallied stoutly and had evened the count at 6-6 when the shades of night unceremoniously fell and postponed the match. The next time out the feud was hotly renewed, and it was not until the 24th game that the drawn-out set was decided in SPE's favor, 13-11. But the uphill fight had apparently proved too much, for Frank and Verne went on to reverse the decision in the next set and win the match.

But paradoxically enough, even though the victors are being thumped

on the back, the league is anything but finished. Out of the thirty-six matches originally scheduled, the considerable number of fourteen remain to be played. These hitherto unplayed games are of paramount importance, since their outcome will determine the tennis point-standings of the various houses. Last week, a memorandum to this effect was sent to all the fraternities by Doc Carpenter urging them to arrange these postponed contests as soon as practical. The present dope rates the teams as follows: SAE 4-2, SPE 4-2, PSK 2-2, ATO 1-2, AEP 1-3, PGD 1-2, TKP 1-4, and TX 0-5. In closing, we wish once again to offer our warm congratulations to Lambda Chi Alpha on their championship. Good work!

## COAST GUARD DROWNS ENGINEER RUNNERS AT NEW LONDON 20-35

Misfortune once again hit the Tech harriers as they lost to the Coast Guard last Thursday, 20-35. The long, hilly course of four and eight-tenths miles proved too tough for our inspired runners of a week ago. It was raining so much that the Coast Guard could have sent out their swimmers for the race. However, the New London course was run in nearly 26 minutes, which is good time in the rain. Our star runner, Dick Zeleny, found the going tough over the long hills, being content with a third place and first

place for the Engineers. Dave Brown and Bob Howell took sixth and seventh respectively while Messenger and Desautels finished as our last two men. The meet would have been a close thriller on the Tech home course.

This meet ends the cross country season for this year, but I know Coach Sanella was quite pleased with the up and coming freshmen. The New England championship race is this Monday in which our freshman team should prove to be a close contestant for first place. Best of luck, freshmen.

## SOCCER TEAM LOSES 4-3

Last Saturday the Tech soccer team wound up its season down at Tufts. They lost to Tufts, four to three, in a game that had to be carried into overtime periods.

The Tech booters started off on the right foot. The game was less than five minutes old when Red Shattuck, playing in the forward line, scored from about fifteen yards out. Later in the first period, on a penalty kick, Red Shattuck made his second goal for the day. Three seconds before the half ended Tufts penetrated the Tech defenses and made the score two to one.

The third period saw Shattuck, Li, and Ozbas constantly on the offensive. Finally in the middle of the third quarter Shattuck passed to Ozbas in front of Tufts' goal and Ozbas made it three to one. Early in the fourth period Tufts scored their second goal. Nine minutes before the end of the game they again

(Continued on Page 4)

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### Peddler

(Continued from Page 1, Col. 2)  
of the lowly Frosh being hauled across that well-remembered cove of Institute Park pond.

As for this year's *Peddler*, in addition to a fine advertising campaign on the part of the *Peddler* business staff, the school granted a subsidy amounting to \$1000, in order that the *Peddler* might come to you at the reduced price of \$4, rather than \$6.

In addition to the reduction in price, the *Peddler* staff has endeavored to give you twice as much material for your money. For instance, all the photography, not merely the pictures of the graduates, but also shots of campus and activities (some even in color) will be done by the Mercer Studios, one of Worcester's best.

Once again remember November 17th, the day the campaign begins, so that when your section representative approaches you, be ready with your deposit. Also if you feel you want to give a little more than your financial support, remember comps are still wanted for the business staff of the *Peddler*.

### BASKETBALL TEAM OUT

Coach Charlie McNulty issued the first call for basketball candidates on Monday, November 8, and the Engineers will soon be in the midst of intensive practice sessions in an effort to be ready for the opening game on December 11 against Fort Devens.

#### BASKETBALL SCHEDULE 1948-49

Dec. 11—Fort Devens	Home
Dec. 15—Mass. Univ.	Away
Dec. 18—M.I.T.	Home
Jan. 8—Boston U.	Home
Jan. 12—Fort Devens	Away
Jan. 15—Trinity	Home
Jan. 19—A.I.C.	Away
Jan. 22—Assumption	Home*
Feb. 12—Upsala	Home
Feb. 16—Northeastern	Away
Feb. 19—Hamilton	Home
Feb. 22—Norwich	Away
Feb. 23—Amherst	Away
Feb. 26—Brown	Home
Mar. 2—Tufts	Away
Mar. 5—Clark	Home*

\*Worcester Teams

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### I. F. Awards

(Continued from Page 1, Col. 5)  
ing the war years, is awarded not merely on a basis of scholastic standing, but also on an activities rating.

The combining of the activity and scholastic ratings placed A.E.Pi on top as the outstanding fraternity with T.K.P. running a close second and L.C.A. crowding both in third place. The trophy shall remain in the possession of A.E.Pi throughout the forthcoming school year until it is presented to the winner of this year's competition.

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### Soccer

(Continued from Page 3)  
got through to the Tech goal to tie the score three to three.

Since the regular game had ended in a tie two extra five minute overtime periods had to be played. In the first overtime period Tech immediately went on the offensive. However, the nearest they got to a goal was a shot by Kwan which bounced off of one of the goal posts. Near the end of this period Tufts went up the field to score a quick

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goal. During the last overtime period Tech found it impossible to penetrate the massed Tufts defenses. The game ended with Tufts the victor, four to three.

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We offer a limited quantity of surplus portable microscopes for sale. These are all new, in original cartons and are offered at a fraction of original cost.

Specifications: Overall height 8 inches, turret with three different powers. Will accept auxiliary eye-piece for higher powers desired. Fully adjustable on tiltback base. Optical system: pitch-polished lenses.

These portable microscopes are offered subject to prior sale on the following terms: Price \$9.00, includes shipping and packing charges. Check or money order should be sent with your order or \$2.50 deposit, the microscope to be sent C.O.D. for balance. Any check received after quantity has been sold will be returned promptly.

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**DU PONT** *Digest*  
For Students of Science and Engineering

## They said, "You can't do it!"

But Du Pont scientists developed a synthetic rubber with superior properties

"Synthetic rubber is an impossibility at any price!" declared a noted European scientist a number of years ago. And most people were inclined to agree because for more than a century chemists had been unable to duplicate natural rubber.

Du Pont scientists knew that all rubber had bad qualities as well as good. "Why struggle to duplicate its faults?" they asked. "Why not find a new chemical compound with all the good qualities of rubber, but none of the bad?"

They took as their starting point a discovery by Dr. J. A. Nieuwland of Notre Dame in connection with the polymerization of acetylene. By modifying this process, they made monovinyl acetylene. Adding hydrogen chloride, they made a new chemical compound called chloroprene—a thin, clear liquid at low temperatures. Like isoprene, it polymerized to form a rubber-like substance. But the new material, now known as neoprene, required no sulfur for vulcanization and was superior to rubber under many service conditions.

Today neoprene production is measured in millions of pounds a

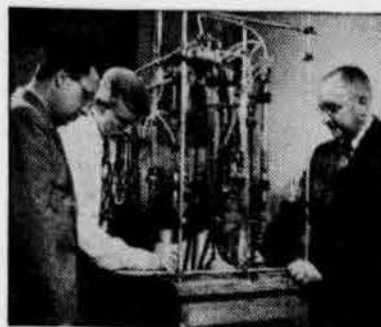
year, even though it is priced higher than natural rubber. Hardly an industry is not now using it, for such good reasons as these: neoprene products resist deterioration by oils and greases. They stand up under exposure to direct sunlight. Their aging and flame-retarding properties also are superior to those of rubber.

#### Three types of Du Pont research

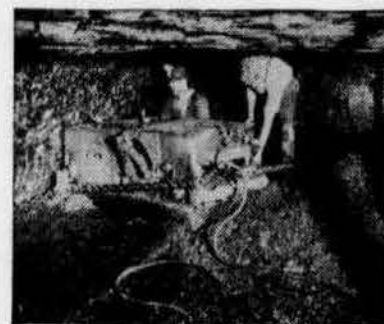
Modern research involves time, money, manpower. To develop neoprene, for example, took six years of laboratory study, a research and development expenditure of millions of dollars, plus the work of skilled research chemists, physicists, engineers, and other scientists.

At Du Pont, research is continuous. Some of it is designed to develop new products or processes; some to improve existing products or processes; and the balance is fundamental research to uncover basic facts without regard to immediate commercial use. Each of ten manufacturing departments has its own research staff and is operated much like a separate company. In addition, the Chemical and Engineering Departments, which are not engaged in manufacturing operations, conduct research in the interests of the Company as a whole.

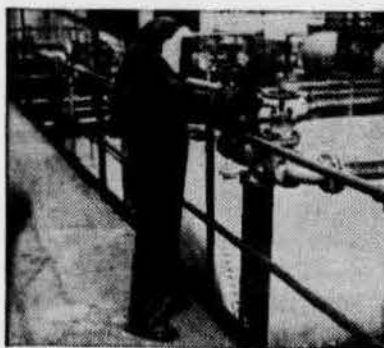
A typical Du Pont research team



The new research man has frequent contact with experienced supervisors. Here M. Hayek, Ph. D., Indiana '47, discusses data obtained in an experiment with F. B. Downing, left, a member of research supervision, and M. B. Sturgis, a research group head.



Neoprene, used in wire, cable and hose jackets, resists abrasion, oil, heat, and sunlight.



Neoprene gloves and protective clothing resist deterioration by chemicals, greases and oils.



Milling and compounding neoprene in the rubber experimental laboratory.

may include physicists, chemists, chemical and mechanical engineers, each of whom brings specialized training to bear on a specific phase of the subject. The man who joins one of these teams finds himself associated with some of the ablest minds in the profession and receives the opportunity and friendly support needed to make fullest use of his capabilities.



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