

Juniors and Seniors all be present at Assembly Friday for TAU BETA PI pledging

Z 320

# TECH NEWS

Juniors and Seniors all be present at Assembly Friday for TAU BETA PI pledging

VOL. XXIX

WORCESTER, MASS., TUESDAY, NOVEMBER 9, 1937

No. 6

## TECH DEFEATS RENSSELAER IN FINAL GAME OF SEASON 14-0

### Dean Jerome W. Howe Pleads For Strong National Feeling In Address On "Patriotism"

Criticizes "News" Editorial On Peace as "Stupid and Uncomplimentary"

SCORES "DEBUNKING"

Major Howe Claims That Loyalty To Government is Basis of National Strength

On Monday, November 8th, Dean Jerome W. Howe presented a talk before a large chapel audience on the subject of "Patriotism."

Since Armistice Day comes very shortly I feel that this is an appropriate subject for my talk this morning. I had come to the decision to talk upon this subject and had sketched out my several ideas about it before I read the editorial in last week's TECH NEWS, which labelled me and a few million others of my generation as "suckers" for engaging in the World War. I confess I got pretty mad over that editorial. It was beyond my comprehension that college students could be guilty of such stupid, uncritical, not to say uncomplimentary, lumping of all the causes—and there were many, all the heroes—and they were not few, all the terrible strain and tragedy of those fateful War years, into a few glib denunciations and a complacent word of ridicule. I am not willing to believe that cowardly care for his own precious skin is typical of today's college man any more than it was of the college man of 1917, and so I shall dismiss the matter of this editorial with the sole remark that it was quite unfair to the college which the TECH NEWS is expected to represent, and I hope it was unfair to the true spirit and soul of the writer. And so I will get on to my task, which is to point out a few of the influences that tend to weaken the patriotism of well meaning and intelligent nationals. Please understand that throughout, in my reference to patriotism, I use the term in its best and finest sense. I have no use for eagle-screaming.

The first of these weakening influences is dissatisfaction with our country, with its government and its institutions, associated often with disgust at its factionalisms and partisan politics. Let me say about this dissatisfaction and disgust at the outset that there is nothing new about it. We are not the first to be dissatisfied and disgusted. In the middle of the last century, dissatisfaction was so widespread and intense, that only a long and terrible Civil War saved the Union. Then right after this war, in 1869, we find Henry Adams writing: "The whole government, from top to bottom, was rotten, etc., etc." There is not more dissatisfaction or disgust today than formerly; probably there is much less. We must keep in mind that human

(Continued on Page 3, Col. 3)

### Water Supply Problem Solved At Alden Labs

Prof. Charles Alden and Staff Conduct Tests on Model Of Aqueduct

Two methods of decreasing the velocity of water issuing from a diversion tunnel have been given severe tests by the staff of the Alden Hydraulic Laboratory to solve a problem connected with the new Delaware Aqueduct that is being constructed by the New York City Board of Water Supply. The experiments are being conducted under the direction of Walter E. Spear, chief engineer of the Board, and Professor Charles Alden.

The diversion tunnel is one of the links in the new aqueduct that is being built to meet the increased demands for water by the manufacturing industries in New York City and vicinity. The Delaware project will supplement the Catskill Aqueduct which at present furnishes New York with water. When completed, it will stretch eighty-five miles into the Catskill's to the reservoir.

In order to erect the reservoir dam a diversion tunnel is to be built to bypass the water from a dam up stream

(Continued on Page 3, Col. 4)

### Interfraternity Council To Meet At A.T.O. Nov. 9

Complete Plans For Rush Week is Scheduled For Tuesday Meeting

The Interfraternity Council will meet at Alpha Tau Omega on Tuesday, November the ninth. This will be the final meeting before the start of Rush Week. Dinner will be served to the delegates at six o'clock, and following this a regular meeting will be held during which plans for the November 17 rushing will be completed.

Preliminary arrangements for the Interfraternity Ball to be held in December, will also be discussed.

Delegates will be appointed to attend the National Interfraternity Conference to be held in New York on November 26. At this conference will be representatives from practically every college in the country which has the Fraternity system. Discussions will be given on the different systems of rushing, and on inter-fraternity relations at the various colleges.

### First Meeting Of Cosmo Club Held at Y.W.C.A.

Club's Objectives Described By Pres. Haynes; More Members Wanted

Tuesday, the Cosmopolitan Club of W. P. I. held its initial meeting of the season 1937-38 in the Y. W. C. A. The event was in the nature of an informal get-acquainted dinner. In the past the first meeting dinners had been an an-



nual occurrence as it was Dean Coombs' customary procedure to finance, personally, a banquet for the Cosmopolitans. The club decided to carry on the spirit of the retired Dean's goodwill in its own affair.

After the food had been duly dealt with, President Howard Haynes called the informal meeting to order. He described a little of the past and a

(Continued on Page 4, Col. 1)

### Grid Team Takes Final Tilt From RPI in Game Marked By Open Play of Both Teams

### New "Collegiate Review" To Be Released Wed.

Will Include Full Page of Tech Photos and Current News of W.P.I.

The first issue of the new intercollegiate publication, "Collegiate Review," will be off the presses Wednesday of this week. Many special features are planned for this first big issue of 96 pages.

A special press release states that a whole page of Tech photographs will be included as well as news of sports, and some social news. Already sixty copies have been purchased at W. P. I. for this first number and more sales are expected after the first issue has been seen. Those of you who have not had a chance to subscribe should get in touch with one of the following: Clark Goodchild, Stan Kimball at PSK, Robert Swift at SAE, Bill Swasey at LXA, Henry Paulsen at TX, Ralston Bates at ATO, Art Malboeuf at TKP, Carl Fritch or Walter Lang at PGD, R. Johnston at LXA and Charlie Amidon at Theta Chi.

Charlie Amidon has done a full page of cartooning for this first issue in addition to having designed the cover. Charlie is well known from his work

(Continued on Page 4, Col. 3)

### H. T. Wrobel '37 Is Chosen For G.E. Training

Selected From Field of 200 As One of 35 to Take Advanced Course

Following a competitive examination, H. T. Wrobel, '37, former chairman of the student branch A. I. E. E. at Tech, was selected as one of thirty-five to take the advanced course offered by the General Electric Company. Last spring the company chose some six hundred students from engineering schools all over the country to take their regular course. Among these were seven W. P. I. men. The A group of thirty-five men was narrowed down from two hundred men having the initiative to take the examinations. Membership of Wrobel in this select group will quite possibly lead to his rapid promotion as well as involving him in more responsible work.

The General Electric Company is already in the field for applicants for next year, having distributed application blanks to the seniors in M. E. and E. E. departments.

Leach, Elliott, and Toubman Wind Up Football Career With Brilliant Play

GUSTAFSON STARS

Elliott Takes Forkey's Pass On Ten-Yard Line to Score Initial Touchdown

Shading Rensselaer in virtually every department of the game, Worcester Tech's gridster's, winding up their campaign, overpowered the Cherry and White warriors, 14 to 0, Saturday in the 31st edition of their annual series.

To gain the triumph, the Boynton Hillers were forced to stem on four occasions a pile-driving Trojan offense. Though Rensselaer smashed through the Tech frontier with its furious overland onslaughts, the Engineers reared up and braced when under the shadow of their goal posts to smother all opposition maneuvers.

The Troymen, on the other hand, couldn't ward off the Biglermen when they scented touchdowns for they capitalized their opportunities. Twice they tallied and were well on the road to a third at the close.

Both on the ground and via the air lanes, the Worcester representatives topped their foes, but those that paid the dividends were the flings into the ozone by Ray Forkey. It was his perfect peg to Co-Captain Dick Elliott that produced the first touchdown. And then in the final heat, bullseye heaves set the stage for the other, recorded by Ben Lambert. Forkey gained the scoring column twice with conversions.

Trojans Threaten Early

In the early moments of the fracas, it appeared that the Trojans would pulverize their rivals. Starting from their 47, they marched to Tech's three-yard stripe before they were halted. Shortly afterwards, they were again touchdown bound.

Tech Scores

Midway in the second quarter came the initial tally, Forkey zoomed one of his tremendous punts down to the Trojans' 11-yarder where Bill Abbe was downed in his tracks. The latter booted back, but his effort was partially blocked, and Tech gained the ball on the 33. Frankie Gustafson picked up a couple of yards on a cut-back and then Forkey passed to Al Raslavsky, who was knocked out of bounds on the 21. After another pass fizzled, Forkey's chuck to the right was nabbed by Co-Captain Elliott who scored unmolested when Al Bellos, with a neat block, chopped down the Rensselaer safety man.

In the third stanza, the Troymen once more threatened. A Boynton hill advance was cut short when Don

(Continued on Page 3, Col. 4)

NEXT DORM DANCE - SAT., NOV. 20

# TECH NEWS

REPRESENTED FOR NATIONAL ADVERTISING BY  
**National Advertising Service, Inc.**  
 College Publishers Representative  
 420 MADISON AVE. NEW YORK, N. Y.  
 CHICAGO - BOSTON - LOS ANGELES - SAN FRANCISCO

1937 Member 1938  
**Associated Collegiate Press**

Distributor of  
**Collegiate Digest**

Published every Tuesday of the College Year by  
**The Tech News Association of the Worcester Polytechnic Institute**

EDITOR-IN-CHIEF  
 Charles C. Bonin, '38

MANAGING EDITOR  
 C. John Lindegren, Jr., '38

NEWS EDITOR  
 Allen R. Deschere, '38

SECRETARY  
 Byron H. Wilson, '38

BUSINESS MANAGER  
 Robert M. Taft, '38

SPORTS EDITOR  
 Everett W. Leach, '38

CIRCULATION MANAGER  
 Robert B. Abbe, '38

JUNIOR EDITORS  
 Henry S. Blauvelt, '39 O. John Karna, '39 Carl W. Lewin, '39  
 Robert V. Bergstrom, '39 Paul W. Keating, '39 Robert S. Lloyd, '39

ASSISTANT BUSINESS MANAGERS

Jack F. Boyd, '39

Walter H. Sodano

REPORTERS

Thomas S. Wingardner, '40

W. Clark Goodchild, '40

Charles McDonald, '40

NEWS PHONES } Editorial 3-9094  
 Business 3-9411

## TERMS

Subscriptions per year, \$2.00; single copies \$0.10. Make all checks payable to Business Manager. Entered as second class matter, September 21, 1910, at the post office in Worcester, Mass., under the Act of March 3, 1879.

All subscriptions expire at the close of the college year.

THE HEFFERNAN PRESS  
 Worcester, Mass.

## — editorials —

### a call to service

On Armistice Day the annual Red Cross Roll Call and membership drive, which continues through Thanksgiving, will again get under way. To us in college this is the call of the Red Cross to those who will be its future leaders to join the organization now and begin to prepare for the work of coming years. After graduation the student will find that there are many calls for college trained men in all phases of the work of the American Red Cross.

Last year the Red Cross cooperated in about 128 disasters—floods, fires, tornadoes, shipwrecks, epidemics of diseases, hurricanes and storms. Throughout all of these this organization has need of college trained men—men whose body and mind are geared to quick thinking and effective action. Furthermore there is need for the clear thinker who will be a valuable member of the civic group which meets in advance of possible disasters to map the community action which would be taken in an emergency.

A program of health and safety education supplements the Red Cross services of relief and rehabilitation, and volunteers can find work here that will be valuable to the community and of great benefit to their own careers.

Courses of instruction are given in first aid and life saving, and with the nation-wide interest centered in programs now under way which are planned to cut down the high total of fatalities through accidents on the highways, in industry and in the homes, graduates who volunteer in these fields will find ample opportunity to use their trained brains and hands.

Membership in the Red Cross keeps the student in touch with the world-wide activities of that organization and may be the key which will open a wide door of opportunity for service in the future.

The college student who pins on the Red Cross membership button in this year's annual membership Roll Call links himself with an organization he remembers at home or sees in projects of relief and rehabilitation throughout the country.

### democracy at its best

Sometimes there is something which everybody just takes for granted and doesn't bother about until someone else tries to take it away. One of these things is democracy with all its ramifications and privileges. If we don't watch we never see it, but if we look we see its evidences everywhere.

Major Howe's chapel talk on the front page of this issue offers an excellent example of a principal stronghold of our Democracy. Here is freedom of speech, press and thought at its best. The editorial policy of the TECH NEWS and the ideas of the Dean of the Institute are in direct opposition yet, on the Dean's part, no attempt was made to penalize the NEWS for this disagreement and, on this publication's part, we freely accepted and emphasized this opposing view so that all might compare and decide for themselves. Certainly this is the finest type of liberty one could ask for.

On Broadway, at the present moment, a play is being presented in which not only is the present administration being made the point of a great many good laughs, but there is not even the pretense of fictitious names to hide the outright ridicule. In democratic government, such as ours is, could any politician try to stop this presentation? If he were to try, it would be a pure case of political suicide for he would be laughed out of public life. This country has no Gestapo to spirit away critics of the government, no OGPU to employ machine-guns and rifles to make certain that such things will not recur—this country recognizes the right of every citizen, and even non-citizens to a certain extent, to air his opinions so long as they are not deliberately slanderous or libelous.

An occasional bit of reflection on this subject should lead every right-thinking person to the obvious conclusion: thank God for our system of government.

**FRESHMAN - SOPHOMORE  
 SOCCER, FOOTBALL  
 SATURDAY, NOVEMBER 13**

## Department Notes

### Physics Department

At the Physics Colloquium on November 2 Dr. R. A. Beth talked on "The Atomic Nucleus and What May Happen to It." At present there are some 600 known transformations of the nucleus, which may be grouped in a variety of type reactions.

Prof. W. E. Lawton will address the Physics Colloquium November 9 on "Various Photo-Electric Effects."

Two articles on Cosmic Rays by R. T. Young have appeared in a recent issue of the Physical Review. These are based on measurements taken in Peru and on the top of Mt. Evans in Colorado.

### Chemistry Department

The senior class in conjunction with the Worcester Chemists' Club will visit the Merrimac Chemical Company of Everett, Mass., on Friday afternoon, November 12. Following the inspection trip the men will attend the meeting of the Northeastern Section of the American Chemical Society at the American Academy of Arts and Sciences in Boston.

The Skeptical Chymists are to hold a meeting on Tuesday, November 9, when they will view a motion picture film entitled "From Mountain to Cement Sack." A talk on "Manufacture of Sulfuric Acid from Refining Gases," by Edward Roszko, '39, will precede the serving of refreshments.

Compliments of  
**ARKUS PHARMACY**  
 107 Highland St.  
 Corner N. Ashland

## Dean-Emeritus Zelotes W. Coombs To Speak Before Fuller Assembly Subject To Be "The Constitution of the United States of America" in Address on Friday

### Professor Who Retired Last Year is Known to All Upperclassmen

Zelotes Woods Coombs, Dean Emeritus and Professor Emeritus of Worcester Tech will be the honored speaker for the second Fuller Lecture of the year to be held Friday of this week, Nov. 12, at 11:00 A. M. His subject will be "The Constitution of the United States of America."

Dean Coombs has been connected with W. P. I. in some capacity since 1890 when he became clerk and assistant in languages here. Since then he has held positions as instructor in modern languages, professor of French, English and modern languages, secretary of the Faculty, professor of English, Chairman of Admissions and Dean of Admissions. In addition to these positions, he has been a member of many committees connected with the Institute and with the City of Worcester. He is a foremost historian of both Worcester and W. P. I. It is said that he knows more about Tech than any other one man.

Until his retirement last June, Prof. Coombs gave a special series of Chapel talks on the founding and the history

of W. P. I. during each year. This year's Freshman class is losing one of the most valuable series of talks ever given by anyone connected with and about Tech.

"Coombsie," as he is popularly known, has known more W. P. I. men than any other instructor of the Institute. He has on many occasions shown his remarkable memory at recalling names as any alumnus within the last forty-five years will assert.

It is a distinct privilege that W. P. I. has such a man willing to come back and honor us with one of his justly noted talks. Regardless of subject or material, Coombsie's talks are always interesting, entertaining and informative to the highest degree, attained through years of public speaking.

Prof. Coombs, when personally interviewed, said that he very much disliked leaving Worcester Tech and "will certainly miss knowing all the boys."

At this assembly the Worcester Tech chapter of Tau Beta Pi, the national Engineering honorary fraternity paralleling Phi Beta Kappa of Liberal Arts schools, will announce its new pledges. These men will be from the upper quarter of the Senior Class and from the upper eighth of the present Junior Class.

Established 1821 Incorporated 1918

## Elwood Adams, Inc.

154-156 Main Street  
 WORCESTER, MASS.

Hardware, Tools and Paint  
 Lighting Fixtures and Fire Place  
 Furnishings

## MADE TO ORDER

## Leather Jackets

Samples on Display at  
 30 INSTITUTE ROAD

Eleven Models from which to choose

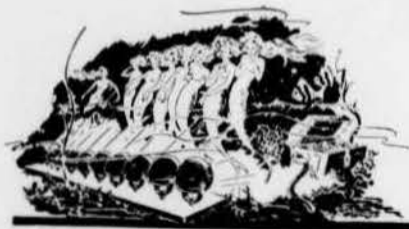
R. M. TAFT '38

"It Costs Nothing to Look"

# G-E Campus News

## FLOODLIGHTING DAVY JONES' LOCKER

When Capt. John D. Craig, deep-sea diver and photographer, descends to the black depths of the Irish Channel to photograph the salvage operations of the Lusitania, Davy Jones' Locker will be floodlighted for the first time in history.



The hulk of the ill-fated Lusitania lies buried in shifting sand at a depth of approximately 300 feet, with a treasure in her coffers valued at between \$4,000,000 and \$15,000,000. To illuminate the wreck for filming, the General Electric Laboratories in Nela Park, Cleveland, Ohio developed a 5000-watt lamp, built to withstand a pressure of 500 pounds to the square inch—more than three times the pressure believed to be around the vessel. Capt. Craig will use a battery of 12 of these lamps mounted on a submarine stage to floodlight the inky depths.

So widespread are the uses of electricity that the development of an underwater lamp merely illustrates the problems encountered by the G-E engineers. Many of these men were on the college campus but a few years ago.

## MODERN LILLIPUT

Wire, three thousandths of an inch in diameter, flattened between two polished rollers to a thickness of nine ten-thousandths of an inch; pivots ground to a point and then rounded to a radius half the diameter of a human hair, yet still sharper than the sharpest needle; sapphires not as large as the head of a pin. Such Lilliputian parts are to be found in the West Lynn plant of the General Electric Company.

A pivot with a point two thousandths of an inch in diameter, yet it supports a pressure of many thousands of pounds to the square inch. Hundreds of such parts are assembled to produce instruments—instruments that measure small flows of current, great flows of current, light, sound, vibration, strain and time. These instruments are so sensitive that they measure the smallest quantities, yet sturdy enough to withstand the severe vibrations of a locomotive cab or an airplane dashboard.



The design and manufacture of precision instruments is but one of the many fields which are open to technically trained men in the General Electric Company.

**GENERAL ELECTRIC**

90-15FBI

## Tech Soccer Team Drops Last Game of Season to Clark by Score of 2-1 in Rough Tussel

**McEwan Makes First Score Early in Second Quarter On Pass From Wing**

### TECH DEFENSE WEAK

**Southenders Prove Successful in Bottling Up Tech's Offense in Last Half**

Once again the traditional jinx was hung on the Worcester Tech soccer team, as they dropped their final game of this season to Clark by a two to one score. Almost invariably they have been beaten whenever they invade the Main Streeter's field. As the score would indicate, it was a bitter struggle throughout the whole game with neither team having any great advantage.

Right from the opening whistle, the first quarter was a hard-running duel in which Clark had slightly the better showing. The Red and White team made quite a few rushes for the goal but each time they failed due to their inaccurate shooting. Tech, on the other hand, did not threaten as much and were forced to play rather a defensive game.

The Boynton Hill team flashed their strength for a short time early in the second period when McEwan scored on a beautifully executed shot from his head. From then on our offensive unit was unable to crack their defense. Unfortunately for Tech their lead was only short-lived. In the closing minutes of this same quarter Clark's inside left, Sanderson, drove in a long one from the side of the field. This shot, which curved through the air and into a corner of the goal was one of the features of the game. Pearson, Tech's goalie, was barely able to touch the ball and it slipped past him for the opponent's

initial tally. The score remained a tie for the rest of the period.

The third quarter was more or less a repetition of the first, neither team being able to push in another counter. The play see-sawed rapidly up and down the field as the game was speeded up to a furious rate.

The final quarter marked the downfall of Tech. Although they have been primarily a "second-half" team they seemed to fall apart in this game. Defense work was decidedly ragged while the offense was once again blanked, by the Clark defense. The home team took advantage of the situation and garnered their final score. Grey headed the ball in, following a scrimmage in front of the goal. During the rest of the game the Red and Gray vainly strove to tie the score and so the final whistle found them at the short end of the two to one count.

The whole game was dominated by the severe checking and blocking tactics used by both teams. This game winds up the season for Tech with four wins and two losses. There is no doubt, however, that this year's aggregation was one of the strongest ever to play for the Red and Gray and as such it deserves much credit for the fine showing it made this Fall.

The line-up for the game was as follows:

CLARK	McInerney g	Worcester	g Pearson
	Sullivan lfb		rfb Ljunggren
	Cooper rfb		lfb Fraser
	McComas lhb		lhb Kay
	Riley chb		chb Abel
	Grky rhb		chb Hollick
	Donahue orf		orf Arter
	McKay irf		ilf Wingardner
	Grey cf		cf McEwan
	Sanderson ilf		irf Whitaker
	Hotchkiss orf		orf Mudgett

Referee: Dan Cummings.

## Freshmen Win In Interclass Track Contest

**Class of 1940 Lacks Only Two Points For Goat's Head Victory**

Despite an unexpected showing of strength in the last two events of the Interclass Track competition, which events were held on Monday, November 1st, the Sophomores were severely defeated by the Freshmen. The final total for the meet was 85 to 32.

The half-mile run proved the closer of the two events with Whitehead of 1940 breaking the tape in two minutes, fifteen seconds. Bates, a Freshman, and Terkanian of the upper class captured second and third places in that order.

The final event was the two-mile run, eight laps around the Alumni Field track. This long grind was won by Hector Cameron, Class of 1940, who had previously taken the mile run. With a lead of about one hundred yards over two Freshmen, Harding and Burns, he covered the course in eleven minutes, fifteen and three-tenths seconds.

With this victory for the new men the Goat's Head competition score now stands at 7 to 0 with the Freshmen Class lacking only two points for clinching the trophy for one year.

## Dean Jerome W. Howe Pleads For National Unity

(Continued from Page 1, Col. 1)

governments and all other human institutions can never be ideal, or even in more than a slight degree satisfactory to most people. That is not possible in this imperfect world. But all my observation, all reports I have read, incline me to the belief that among the larger nations ours offers the best conditions of life for the masses of its people of any, and the most of that precious and easily undermined principle, Liberty. Let us put away the multitude of minor dissatisfactions and cling to that one greatest satisfaction.

Another strong influence tending to weaken patriotism is disillusionment. In a particular and virulent form it is called "debunking." School histories have supplemented tradition in glorifying every episode in our history and it comes as an unpleasant shock when with greater intelligence and knowledge and understanding, egged on perhaps by certain facile professional debunkers, we come to appreciate that it was not all glorious and that some of it was rather mucky. But if we are practical and not sentimental about this, we shall be able to perceive that there has been enough of the truly noble in our great men and enough of high purpose and splendid achievement in our great moments to justify a warm glow at

### N. Y. A. PAYROLL ENDS 16TH OF EACH MONTH

Henceforth all time reports for N. Y. A. work must be handed in at Prof. Paul R. Swan's office in Sanford Riley Hall by five o'clock on the sixteenth of each month regardless of the day on which it falls. The N. Y. A. payroll should then be available by the twenty-fifth of the month at the bursar's office.

## CARBERRY'S PUB

5-7 School Street

The Rendezvous of Who's Who

Compliments

Farnsworth's Texaco Service Station

Cor. Highland and Goulding Sts.

## Tech Defeats Rensselaer In Final Game of Season

(Continued from Page 1, Col. 5)  
Hutchinson intercepted a Tech pass on his 10.

### Pass Intercepted

From near his own goal line, Shako hurled a long forward pass. Gustafson intercepted at midfield and carried back to the 29, where he was tackled and injured, being replaced by Harry Kingsley. A forward-lateral, Forkey to Jack Rushton to Kingsley, moved the Boynton Hillers inside the 10-yard ribbon. A lateral pass, Rushton to Kingsley, brought a first down.

The Forkey to Elliott combination was again pulled out of the bag, pushing the Biglermen to the five-yarder. Forkey then ploughed through center to the one and Lambert scored over left guard.

WORCESTER TECH—14

Stone le	le Carlson
Leach lt	lt Kalan
Bodreau lg	lg Day
Scott c	c Bauman
Toubman rg	rg N. Kingsley
Lewin rt	rt Richardson
Rushton re	re Fink
Elliott qb	qb Shako
Gustafson lhb	lhb Sohl
Korolyshun rhb	rhb Hutchinson
Forkey fb	fb Andrews

Score by periods:  
Worcester Tech 0 7 0 7—14  
Touchdowns: Elliott, Lambert. Points after touchdown: Forkey 2 (placements).

heart, which we can foster as a part of patriotism.

A third canker attacking the healthy tissue of patriotism is what may be called "Internationalism." This is a big word; but it too often stands for a very shallow and unsubstantial matter. It is too vaporous to serve as a real, vital, practical ideal. There is not time, of course, to say all I have to say about the folly of Internationalism, but I can suggest what I think by saying that a real internationalism, which shall be effective and shall make real progress in the world and elevate backward peoples and foster brotherly love, is only possible if based upon strong healthy nationalism. Nationalism, not jingoism or imperialism. There must first be the determination on the part of the nationals of a country to make their country truly fine and strong and great before it is possible to have even first steps toward internationalism. That is a remote ideal for which the nearer ideal is prerequisite.

(Continued on Page 4, Col. 3)

## Cross Country Team Defeated By R.P.I. 40-15

**Troymen Too Fast For Tech Harriers; Take First Five Places**

Rensselaer's crack cross country team whitewashed the Worcester Tech harriers, 15 to 40, over the Trojans' home course today.

Three Cherry and White plodders, Bill Giesker, Johnny Dugan and Larry Hitchcock, finished hand in hand for a tie for first place. They were clocked in 26 minutes, 25 seconds for the distance, which is a shade under five miles.

Tied for first, Bill Giesker, John Dugan and Larry Hitchcock, all of Rensselaer; tied for 4th, Vic Head and Bob Rockford, both of Rensselaer; 6th, Frans Stranberg, Tech; tied for 7th Ken Koopman and John O'Rourke, both of Rensselaer; 9th, Bob Dunklee, Tech.

## Water Supply Problem Solved at Alden Labs

(Continued from Page 1, Col. 2)

down around the proposed dam to a point below it on Rondont Creek. The tunnel will also serve the purpose of protecting the dam by carrying away the excess water during flood periods.

To reduce the velocity of the water flowing from this thirty-foot tunnel at the rate of 50,000 cubic feet per second is the object of the the research.

Each of the two methods devised were modeled to one-sixtieth the size of the actual project. They were put through rigorous tests with the results being recorded by figures, snapshots and motion pictures.

In one model the diverted water shoots out of the pipe into a basin, strikes a curved wall that throws it upward into the air, losing its energy.

The second method takes the fight out of the water by a series of five steps which the water must climb on leaving the tunnel.

Although the tests are not completed the latter method is believed by the engineers to be the better solution to the problem.

Phone 3-4298 M. Farrah, Prop.

## PREMIER TAILOR

Expert Cleaners and Dyers

111 Highland Worcester

## Fillion Edits New Volume For Exclusive W.P.I. Research Works

Allen, Merriam, Hooper, Spaulding and Beth Contribute to Initial Publication of Periodical

### Technical Research Articles Published For Alumni By Committee

In November of this year a new publication appears here at Tech in the form of a bulletin of technical research. Suggested by Professor Fillion as a means of acquainting outsiders with the work now being carried on here in the research line, it is sponsored by the W. P. I. Research Committee. However, only papers published in scientific periodicals are presented, thus leaving out much that is handled confidentially for certain companies in connection with new processes. The Research Committee does not wish to discourage the volume of routine test work now being done, but it feels that many engineers and companies of limited means will be interested in learning of the advances being made here, and how they may benefit by our resources. Details may be obtained from the Re-

search Committee by any company or individual interested in having their problems handled here.

The new publication has, in this issue, such articles as those by Dr. Ewell on the storage of beef, meat research, and the present use of ozone in storage plants. At the same time such electrical items as those on induction generators and load tests are presented for the electrical engineer. The other departments of mechanical, aeronautical, and chemical engineering, and physics and electronics are represented with articles by such prominent men here as Profs. Allen, Merriam, Mr. Hooper, Mr. Spaulding, and Dr. Beth.

The articles are all well written and should interest the students as well as the engineers for whom they were originally intended. Only a limited number of the bulletins are published, and these distributed to the Trustees, Faculty, and Alumni connected with research. Only certain libraries are non-W. P. I. recipients of the book.

### QUALITY RESTAURANT

129-131-135 Main Street  
CHOICE FOOD AND BEVERAGES  
Dancing Every Friday and Saturday

HUNTING SEASON  
Come out from behind those bushes

SEE THE  
**Boynton Barber**  
113 HIGHLAND STREET

Pay \$1 Per Week!

**Tech Keyboard**

See  
**Karakoosh '38**  
Dial 4-3549

Sold to Students, by a Student,  
at a STUDENT'S PRICE

CORONA



SUPREME COURT JUSTICE  
**HARLAN F. STONE**  
WAS EXPELLED FROM MASS. ST COLLEGE FOR ALLEGEDLY HITTING A PROFESSOR! HE ENROLLED AT AMHERST WHERE HE BECAME THE MOST POPULAR MAN ON THE CAMPUS

DR. HENRY W. HARPER

IN FORTY YEARS AT THE UNIVERSITY OF TEXAS DR HARPER HAS ALWAYS WORN A RED BOW TIE, THE SAME TYPE OF SHOES AND CARRIED AN UMBRELLA!

**First Meeting of Cosmo Club Held at Y. W. C. A.**

Continued from Page 1, Col. 3)  
 few of the objectives of the club. Then each guest rose in turn to give a thumbnail autobiography. When all the thirty-three Tech men and faculty members had said their bit Mr. Haynes again took the floor and certain business matters were discussed briefly. Prof. Swan amplified Mr. Haynes statements on a few points and the meeting was then adjourned.

In its original form the Cosmopolitan Club was composed of the foreign students at Tech, but in recent years the number of men in this classification has dwindled to almost nothing. The membership now consists, for the most part, of sons of alumni and others interested in the discussion of international affairs. The motto of the Cosmopolitan Club is "Before any nation, Humanity."

When students from other parts of the world were more numerous at Tech the Cosmopolitan Club had its own house where the members lived. It was similar to a fraternity. This house is no longer maintained, having been abolished some years ago.

The club welcomes all those interested in foreign affairs to its folds. The winter meeting will be held in the home of Dean Howe.

**The Tech Pharmacy**

S. Hurowitz, W.P.I. '22

**TECH STATIONERY**

24 Sheets }  
 24 Envelopes } all for 59c

Double Size 89c

Cor. West and Highland Streets

**"Collegiate Review" To Be Released Wednesday**

(Continued from Page 1, Col. 4)  
 with the Peddler. His work, as well as that of the rest of the staff located all over New England in over forty colleges, will be released Wednesday in the first issue of which 3000 copies have already been contracted for.

**Dean Jerome W. Howe Pleads For National Unity**

(Continued from Page 3, Col. 4)  
 Finally, the very greatest of the diseases that beset and endanger patriotism is individual selfishness and

indifference, with apathetic, ostrich-like sense of security, and willingness to put the burden of patriotism on the other fellow. Patriotism is an ideal. Ideals are to serve; not merely to shout about and enjoy.

Loyalty to government, jealous pride in hard-won liberties and slowly evolved institutions that are the bulwarks of our social order: this is patriotism. Do I have, in closing, to remind you that the need today for true patriotism in the few remaining great democracies of the world is very pressing? You are not blind to the threats to freedom that becloud the horizon. You are bound to agree with me that it be-

hooves all of us to be true to our heritage, to be willing and eager, with God's help, to preserve this great land of liberty, and to respond to the duty of citizenship by taking an intelligent interest and concern in national problems, those of internal social and industrial economy, and also those pertaining to our foreign relations and our policy of national defense.

**Wanted**

Sophomore or Junior to take orders among fellow students for Mrs. Wood's Chocolate Cream Fudge and Chocolate or Vanilla Cream Carmels.

Write: **MRS. H. T. WOOD**  
 98 Cedar Street  
 Clinton, Mass.

**WHITE**

CLEANSERS AND DYERS, Inc.  
 113 Highland St. Dial 2-1966

FLOWERS FOR ALL OCCASIONS  
**Rainbow Gardens**

Flowers of Quality

Delivery Flowers Telegraphed  
 31 Holden St. Dial 4-6486

as Welcome  
*as mail from home...*



Anchored 47 miles off shore, the Nantucket Lightship guides traffic on the Atlantic Coast. Mail and supplies come aboard once a month—one of the most welcome arrivals is the supply of Chesterfields.

Chesterfields give more pleasure to smokers wherever they are . . .

On land or sea or in the air Chesterfields satisfy millions all over the world. They're refreshingly milder . . . They're different and better.

**Chesterfield** *...a taste that smokers like*