

TECH NEWS



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Business staff
members - to - be
see instructions
on page 3.

VOL. XXVIII

WORCESTER, MASS., OCTOBER 6, 1936

NO. 1

College Officially Opened At Large Student Assembly In Memorial Gym Wednesday

**President Earle Stresses
Need For Personality
Among Engineers**

PRAYER BY DR. SAVAGE

**Prof. Swan Awards Fraternity
Scholarship Prize To
Lambda Chi Alpha**

The college year at Tech was officially opened on Sept. 30, 1936, at the first student assembly in the Gymnasium. John R. Casey, president of the Tech Council and Skull, was chairman of the gathering. After the opening prayer by Dr. Maxwell Savage, Mr. Casey addressed words of welcome to both upperclassmen and the class of 1940.

Further greetings were extended to the Freshmen by William E. Carew, president of the class of 1937.

Mr. Clifford Green, director of the Musical Association of W. P. I., made the announcements concerning the activities of the Association and urged Freshmen to try out for the band, Glee Club and Boyntonians. Following these announcements, Mr. Green led the student body in some Tech songs. Chairman Casey then introduced President Earle.

Because of the spirited off-campus rivalry between Frosh and Sophomores, Prexy considered it necessary to make some remarks in regard to this type of rivalry and urged the two lower classes to confine their battles to the campus. After this remonstrance, President Earle published the honors for the last semester and explained the award of the Fuller prize. Prof. P. R. Swan elaborated on the remarks of the President, congratulated the fraternities on their interest in the award and concluded by announcing that Lambda Chi Alpha had won the "Thinker" trophy and the Fuller prize of \$250 for being the fraternity with the highest house scholarship average. Phi Gamma Delta and Alpha Tau Omega were second and third respectively.

After an ovation by the student body, President Earle delivered his annual address of welcome. He stressed the fact that a combination of technical knowledge with a pleasing personality is a sure key to success.

The students were reminded that politics still cloud the atmosphere and that until the truth is known, the decision of which party to vote for would be difficult. The problems of Ethiopia, Italy, Spain and France loom large on the horizon of world affairs. Only the student on the well-charted course of education seems destined not to go adrift; but with his knowledge, the engineer of today must also couple personality.

"If we could but work here on the theory or the realization that knowledge was not enough, our careers would tend to be much more satisfying. In other words, the ability to associate and to be with others is one of the greatest assets one can have."

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**Underclassmen
Show Spirited
Class Rivalry**

**Freshmen Beat Outnumbered
Sophomores in Paddle
Rush Saturday**

With rotten egg and rotten apple barrages and many resounding paddle-smacks echoing around the campus during the evenings, the Freshman-Sophomore rivalry tradition is being unofficially carried on by '39 and '40—with a vengeance. Disinterested upperclassmen report that the battles this year have been the liveliest and best organized in several years.

When the smoke cleared and the box score of that evening was totalled up, it amounted to something like this: four Sophomores unwillingly bathed in dormitory shower baths, four Freshmen dipped unceremoniously in the none-too-warm waters of Institute Pond, one triumphal march down Main Street by a gang of Frosh resembling a lynching party, many shirts and pants that needed burning or burying, innumerable faces and hands that had to be scrubbed thoroughly before the owners could sleep, and a surprising number of sore spots which made it rather difficult for those concerned to find comfortable chairs.

In all, the fight showed a large amount of spirit and enthusiasm on the part of both classes and the only regrettable thing in the whole affair, as President Earle remarked at the Assembly the following day, was that the whole thing was not carried on within the campus limits.

Since that day the usual hazing has been going on. Freshmen have been required, under threats of dire results should they not do so, to wear the regular gray and red skull caps and black bow ties, this year of the kind that must be tied by hand. In general, the yearlings have been more or less docile, singing and cheering at the commands of the second-year men, and doing the many silly-looking things that only a Sophomore can think up for a Freshman to do. However, the Freshmen show a decided reluctance to give cheers for '39, adding '40's to the "P. I." cheer as they read it from the "Bible."

Occasionally the Sophomores get a little too bold, as happened last Friday noon when a few second-year men sought to subdue a Freshman who turned out to be a football player. Even three Sophs on his back at once didn't seem to bother him, and a call for more Freshmen brought such a flock of them that the original tormenters were very sorry they had started anything.

The Freshman class this year, for all its large size, seems to be unusually well organized and, with the paddle rush victory tucked safely under its col-

Dr. Duff Resigns After Thirty- Seven Years of Loyal Service

**Greetings To The
Students of W. P. I.**

Editor Sutcliffe of the Tech NEWS courteously suggested that I write a line of greeting for this, its first issue of W. P. I.'s sixty-ninth year. I am glad to do so, looking forward to another pleasant year on the Hill.

Our age contrasted with the 300 years of Harvard University's life makes us seem young indeed, but yet when colleges of Technology alone are considered and we recall that only Rensselaer and M. I. T. exceed us in age, we merit the adjective **venerable** and realize we have a great responsibility to carry on in a manner worthy of our founders.

Our traditions when weighed with schools of engineering are sufficiently old to give us just pride in them. All are founded upon the desire to accomplish a few things faithfully, and the thoroughness of teaching here is such as to make us all ambitious to advance



PRESIDENT RALPH EARLE

learning and perpetuate it to posterity. As "veritas" upon the seal of Harvard stands for its three hundred year tradition, so does the effort here to learn to think through logical courses of reasoning make our motto "Pauca Fidelis" a tradition worthy of permanence.

President Emeritus Lowell of Harvard at her Tercentenary observance said "—whether we think upon the monotony or the violence in human history, two things are always new—youth and the quest for knowledge—".

This fall, as we return to Boynton Hill, because of this birthday of education in America, we find the urge to learn the greater and our desire to acquire wisdom in all things the stronger.

May these ideals chart your course, my returning and my new shipmates of '40, and thus upon your graduation bring you all the satisfactions in life that can come to successful men.

Ralph Earle,
President

lective belt, it has a good start in the interclass competition for the Goat's Head. Sophomores take note.

**Former Head of Physics and General
Science Departments to Remain at Tech
As Professor Emeritus of Physics**

LECTURER WAS FAVORITE AMONG STUDENT BODY

**Gives Account of His Early Life as a Teacher in India and
His Impressions of Classes and Students at Tech**

This past week Dr. A. Wilmer Duff formally retired from a position on the active service on the faculty which he has occupied for the past thirty-seven years. During this time, Dr. Duff has been a leading man in the field of physics in the world. He has the distinction of being the editor and collaborator of the best-selling science text-book, "Physics for students of Science and Engineering" which has been outstanding for twenty-nine years, while the usual life of a science text is five years.

Dr. Duff has been working on the eighth edition of this book this summer. This task is so tedious that Dr. Duff decided that he wouldn't be prepared to take up his regular lecture work on the Hill this fall.

Dr. Duff received his advanced education in several lands. He graduated from the University of New Brunswick in 1884, passing in that year the examination for the Gilchrist Scholarship which was given throughout the British Empire. The future Dr. Duff's examination was the best one written in the entire Empire in that year and started his education abroad. He went to the British Isles and there received another A. B. from London University in 1887 and an M. A. from the University of Edinburgh (1888) and a D. Sc. from the same university in 1901.

His teaching experience has been equally varied. He has taught in Madras, India, the University of New Brunswick, Purdue, and, last but certainly not least, Worcester Polytechnic Institute. Dr. Duff has been the author and co-author of several physics texts since the early part of this century. "Elementary Experimental Mechanics" appeared in 1905, and in 1910 "Physical Measurements" of which he was co-author with A. W. Ewell. In 1925 the text-book which is well known to all Tech men, "College Physics", was presented to the world by Dr. Duff. Again collaborating, this time with H. T. Weed, he wrote "Elements of Physics" which appeared in 1928.

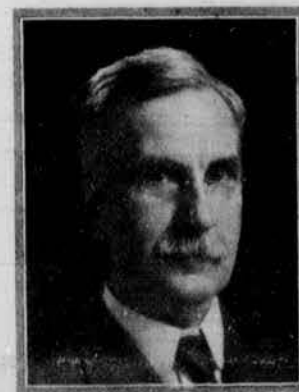
However Dr. Duff's life hasn't been all text-book writing and studying. During the World War he was consulting and experimental engineer for the United States.

Following is a description of Dr. Duff's first class, which description was generously written for the news:

My First Class

To attempt, at an hour's notice, to write anything intelligible on changes in the student body at the Tech in my time is, I am afraid too staggering a

proposition. It reminds me of some story I have heard of a nervous youth who was undergoing an oral examination in geography, and when the ex-



DR. A. WILMER DUFF

aminer started with his pet form of query, "Now just tell me what you know about geography", the poor victim was only able to stammer out "P-p-please, sir, I don't know anything about it", and flee. But the request does remind me of the contrast between the first class I ever taught and classes I have lectured to here.

My first class was in the University of Madras, India in 1889-90. I suppose the first thing you would have noticed, if you had entered the lecture room, would have been a pair of enormous punkahs, sweeping forward and backward above the heads of the students. A punkah is a huge fan of cloth, hanging from the ceiling and kept in ceaseless motion by a punkah wallah, who pulls on a long cord that passes through a hole at the back of the room, and its object is to make life liveable when the thermometer is at 120 in the shade. (You have one also over your bed at night, and when the punkah wallah goes to sleep, you wake up and swear). No doubt now ordinary fans are more common.

Next in the lecture room you would have noticed that all the students wore their headdresses, turbans or caps, and you would think it very disrespectful, and the feeling would be increased when you noticed that their feet were bare, as they had left their shoes at the door, and many of them sat cross-legged. Then on their foreheads you would notice certain vertical or horizontal streaks or dots of temple ashes, if they had attended to their religious duties. The skins of these students are a deep brown, not unlike a deep summer tan at the seashore here and due

(Continued on Page 5, Col. 1)

Welcome Class of 1940

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THE HEFFERNAN PRESS
 Worcester, Mass.

— editorials —

another welcome

Even tho the saturation point has been reached as far as welcomes go, the Tech NEWS staff nevertheless takes this opportunity to welcome all students back to the Tech campus—some for the first time, and others for the second, third, fourth or fifth times. Those of the latter category really do like Tech! The seniors especially feel the return to college this fall, since it is their last return as an undergraduate. To the seniors, and you will all be seniors some day, may the staff say, "A college without seniors is a college without seniors!"

as we see it

During the next five weeks many silver-tongued orators will eulogize both loud and long on the merits of their respective candidates for the highest executive position of our country; there will be straw votes, forums and public meetings; claims and counter-claims will be made and many wagers will be bargained. THE TECH NEWS has never dabbled in the murk of politics, but WE feel that in the present crisis WE, as the official mouth-piece for six hundred students, should voice the engineer's attitude toward his choice between the two major candidates.

One candidate we can judge by his actual performance in this position for four years, the other we must pass on his performance in a similiar position as Governor of one of the states. Forgetting the engineer's viewpoint for a moment we can look at our President's "Promise and Performance"; at no time in his four years do these two coincide, in fact, his Performance has been even radically opposite his Promise. The President's opponent has governed his state in such a way that he has been able to satisfy the people of that state that he performs as he promises.

As the engineering student looks at his future he sees two possibilities of employment after graduation: government and non-government. The

former is the kind he will have if our president is allowed to continue his iron-tight grip on the nation's governmental machine for another four years. The latter is what he may look forward to if the country returns to a sane government backed by experience not theory. The vagaries of the present administration have come one by one as shocks to the logical thinking mind of engineering students, and they can but wish and hope that the less scientific minds of the country will also see the ignorance and worthlessness of the acts of the "Raw Deal".

If we are to continue under Mr. Roosevelt there is but one opening that will appear for engineers; perhaps we will be paid for NOT building bridges, for NOT putting up power lines and for NOT studying cures for diseases and remedies for humanity as a whole.

for freshmen only

During the first few weeks of the college year the members of the freshman class are annually subject to innumerable articles and lectures containing advice on how to conduct themselves here at Tech and on what attitude to take toward the various decisions that have to be made. It is to be hoped that you members of the class of 1940 will not be so bored or so foolish that you will not heed this well-intended and very helpful advice. After all, it is the accumulated wisdom of men who have been associated with Tech and know what problems will have to be faced here.

Most of you frosh are facing a longer stay away from home than you have heretofore experienced. There will be many problems in respect to what sports and activities to participate in, how much time to spend on studying, and with what type of fellow to become friendly with, which will be liable to give you trouble. The orientation lectures are supplemented by our system of advisors which is intended to enable each new-comer to W. P. I. to get the friendly advice of an older man who because of his close connection with the life at Tech can give advice of value. Be sure to take advantage of this opportunity when a problem comes up. A receptive attitude toward all the advice you will get and a judicious appli-

cation of it will go a long way towards making the start of a successful college career.

yea rah rah and a razz ma tazz a challenge to '40

We are now starting another year—We are now starting another athletic year. A great deal of effort and money have been spent to insure our school of a few athletic victories during the course of the various athletic seasons. The players and coaches are trying hard and giving their best. The student attendants—we wish we could say the same for them. To call them supporters would be a rank injustice to the thousands of college students who have a deep and sincere interest in the welfare of their athletic teams. They on Saturday afternoons actually flock to their football fields filled with excitement and enthusiasm. The Worcester Tech students, a bare few of them, drag along down to Alumni Field like a bunch of sophomores headed for a Physic's lecture. The students in the thousands of these other American colleges roar and shout their approval and dismay. The Worcester Tech students scarcely murmur whatever kind of a play is made. "Hold that line...Hold that line,"

"We want a touchdown...We want a touchdown." No you're not at Worcester Tech. You're at any other American college on a Saturday afternoon. And when some wondering freshman asked an upper-classman the other day if there were any spirit at all in this school, his senior turned to him and with a smile which said, I guess this poor kid just got out of high school, answered, "Huh, that kind of stuff died out years ago." We would like to take that upper-classman to an Army-Navy, a Harvard-Yale or to any college football game where there are real red-blooded students some Saturday; and if something didn't go through him while he listened to those thousands becoming hoarse then there is something radically wrong with him.

This is nothing new here at school—it has been going on for years or at least for the last few years. That means that the upper-classmen are the meek lambs who are sitting in the stands like a bunch of eighty year old ladies at a knitting bee. We know we can't expect any help from them. But you FRESHMEN, are you willing to show these your superiors that you do possess a little something there that makes you stay with the team, ahead or behind. We sincerely hope so, but we honestly can't believe until we see and hear you next Saturday.

The Choice of Books An Essay

"Choose well, your choice is
 "Brief, but yet endless."

Do you remember what a narrow and monotonous life we had, we who were country boys—farmer's sons—forty or fifty years ago?

From year's end to year's end, in all sorts of weather, at the cruel hour of 5 o'clock in the morning, that hour when sleep tastes sweetest, they roused us up to fodder the cattle, milk the cows and begin once more serving out the penalty laid on Adam, of earning our bread with the sweat of our brow.

We followed the plow and harrow back and forth across the lonesome field while the slow day waxed and waned; the pitiless July sun scorched us, the wind and sleet of winter froze, and when the daily task was ended, turning homeward, begrimed with dirt and half dead with fatigue, we welcomed the night, the fathomless darkness of night in the country, for the oblivion of sleep it brought us.

With our city boys it is different. I do not know what hour is set for their rising—it is not too early in the morning, I believe, but they do not put on overalls and cowhide boots. They dress

deliberately, making a careful study of collars and neckties, they have picnics and parties, they say "Beg pardon!" "Yes, thanks!" with finished ease, they lift their hats to the girls and part their soft hair sweetly in the middle.

Compared with the life of our city boys, the good clothes they wear and the good times they have, our country boys had a tolerably rough time of it, and the more I think of it the more am I compelled to pity them, from the bottom of my heart—that is, the city boys.

For three-fourths of the leaders among men in our country today owe their fitness for leadership, their success in life, to the sweat and toil that, to an ambitious boy, made life on the farm appear so bitterly hopeless, to a few winter months at school and to a few choice books.

In those early days in the West the farmer's son got very little schooling, only reading, writing and arithmetic, with perhaps a little geography and grammar thrown in occasionally as ornamental branches. I suppose the "three Rs," those rather old fashioned country cousins, are still taught thoroughly somewhere; there was a time

when they were held in considerable esteem.

But if the farmer's boy knew little of the accomplishments of polite society, there were compensations nevertheless, granted always that he had a thirst for knowledge. For through good books, were they but half a dozen, he knew or at least dreamed, of a wider world beyond the verge of his horizon—"an ampler other, a diviner air"—where great men strode the earth and great deeds were done.

He became dissatisfied, and dissatisfaction with things as they are lies at the root of all improvement.

For the laying of a good foundation of an all round successful man, versatile and ready for any career, a whole foot ball team, to use an illustration our city boys will understand—right tackle, quarter back and center rush all in one—I doubt if there is today anything better than a few early years on the farm, a good drill in the "Three Rs" and the possession of, or access to, a few choice books.

A few choice books I say, not too many in those early years, but well read and re-read until they become an
 (Continued on Page 6, Col. 3)



While '17 waited, '37 talks

WHEN the class of 1917 was at college, a long distance telephone call took (on the average) more than ten minutes to be put through.

This time has been whittled down gradually, so that now the connection is made in an average of 1.4 minutes—nine out of ten of them while you hold the line.

But this is only one phase of the relentless effort to improve. Your service is better today because voice transmission is clearer—interruptions and errors less frequent than ever before.

America demands fast but sure telephone service—and gets it.

College men and women find after 7 P. M. a convenient time for long distance calling. Moreover, most rates are lowest then.



BELL TELEPHONE SYSTEM

Tech Booters Defeated 7 to 4 By Mass. State

Red and Grey Backs Unable To Stop Sure Kicking State Forwards

Opening the 1936 soccer season, Tech's eleven dropped a hard fought game to Mass. State 7-4. Coach Higginbottom started only five veterans against a fast kicking State team. The Red and Grey was hampered by the inability of its halfbacks and fullbacks to match the long kicks of the State backs. The play was in Tech territory most of the game; Ljunggren and Hollick played hard to clear the ball and their kicks gave Tech its few scoring opportunities. Four of the State goals were shoved in from scrimmages in front of the goal, emphasizing the inability of the green Tech players to pass the ball to its forward line. McEwan, Mudgett and Clark starred in few brief thrusts made on the State goal.

Lineup:
MASS. STATE
Turner, g. _____ g., Bonin
Podalek, lfb. _____ lfb., Ljunggren
Conway, rfb. _____ rfb., Lawrence
Kennedy, lhb. _____ lhb., Kay
Couper, chb. _____ chb., Hollick
Buzze, rhb. _____ rhb., Wrobel
Cain, ol. _____ ol., Windgardner
Osley, il. _____ il., Holt
Rodda, c. _____ c., McEwan
Lyman, ir. _____ ir., Pearson
Kyle, or. _____ or., Mudgett (c.)

Boyntonians To Start Season

Rope Pull Dance To Be Held Saturday Night

The annual Rope-pull Dance will be held next Saturday evening, October 10, between the hours of nine p. m. and one a. m. This event, which opens the social calendar of the season at Tech, is sponsored by the W. P. I. Musical Clubs and celebrates the second contest for the Goat's Head between the two lower classes. Rythm will be furnished by the Boyntonians, who will make their first appearance of the school year on that evening. This group of popular musicians of Tech comprised one of the best dance orchestras in the vicinity last year and is even better this season. The Freshman class, especially, is cordially invited to attend; it is an excellent opportunity to become acquainted as well as to spend an enjoyable evening. Semi-formal dress will be in style. Professor Fitzgerald, faculty member of the Boyntonians is in charge of arrangements. The chaperons who have been invited are:

Pres. Ralph Earle and Mrs. Earle, Professor and Mrs. F. J. Adams, Mr. and Mrs. Arthur M. Tarbox, Mr. and Mrs. Clifford F. Green. Mr. Green is director of the Glee Club.

The ticket committee is: William Worthley, Phi Sigma Kappa; Robert O'Brien, Sigma Alpha Epsilon, Frederick Burg, Sigma Omega Psi; William Holcomb, Phi Gamma Delta; Richard Prokop, Theta Chi; Chandler Pierce, Lambda Chi; William Stanton, Theta
(Continued in Col. 5)

All those desiring to report for the NEWS see Chadwick, '37, in Boynton Hall, B-19, at 4:15 p. m., Mon. Oct. 6.

For Business end see Chapman, '37, in Boynton, TECH NEWS office, at 7:00 p. m., Oct. 6.

tech news sport slants

Prospects for Tech's football team this year, are to use "Pete" Bigler's own words, as good as they've ever been. Losing only two men by graduation and two by ineligibility rules the team has nine letter men available for the six-game season: Capt. Germain at quarter Elliott and Korolyshun at half, Rushton and Johnson at end, Townsley and Toubman at guard, Lewin at tackle and Stone center. Coach Bigler will have the assistance of two veteran line coaches this year and hopes to have a forward wall which will be better than last year's. Don Bennett will season the center of the line, while Pete Dowd, former Holy Cross star, will tutor the end candidates. A wealth of reserve men this year will greatly aid Bigler in putting a better team on the field than played last year. Frawley, Jackson, Forkey and Gustafson are outstanding backs; Raslavsky and Folmsbee will both see plenty of action at the end posts; Chandler, Young and Leach can fill the tackle berths; and the center line substitutions will be chosen from the following: Wilson, Rand, Liberty, Dearborn, Grant and Bodreau. The fresh-

man class may also add many capable performers to this already large squad and undoubtedly several freshmen will win themselves starting berths.

Using the "one over one" system we can prove that our team should beat practically all of its opponents: We tied Coast Guard who held Wesleyan to a tie; Wesleyan beat Conn. State who beat Brown who in turn beat Rhode Island State; therefore we can beat Conn. State and Rhode Island State. Rensselaer had a hard time beating little Alfred College after losing fifteen straight games in two years and are not expected to give Tech too much opposition. Mass. State was beaten by a very weak Bowdoin team 14-12 and does not appear to have the edge they had when Stewart was throwing sixty-yard passes for them. Tech's most formidable rival appears to be Trinity who has made their win over Tech an annual affair for some time now; this year's team seems to have the best chance of beating the Blue-Shirts from Hartford that any Tech team has had for many years.

It seems that all we have to do is beat Trinity and then count the touchdowns in the remaining four games.

Coast Guard Holds Engineers To Scoreless Tie in First Game

Cadet Team Outplayed in All Quarters as Hillers are Twice Stopped Within Few Inches of Goal

Cross Country Team Loses to Coast Guard

Cameron of Tech in 2nd Place

The Tech cross country team went down to defeat in the first meet of the season, losing to a strong Coast Guard squad by a score of 42-19. The Navy boys came through to win six of the seven places, with Tech winning the second place.

Buxton of the Coast Guard was first to cross the finish line, the time being 15 minutes 59.45 seconds. Cameron, a freshman member of the Engineer team, showed plenty of stamina in a hard sprint the last few yards to defeat Pfeiffer of Coast Guard for a second place. The summary of the meet is as follows:

Won by Winslow Buxton (CG); 2nd, H. Cameron (T); 3rd, A. Pfeiffer (C G); 4th, John McCubbin (CG); 5th, Robert Prause (CG); 6th, Edward Chester (CG); 7th, Milton Albin (CG); 8th, Franz Strandberg (T); 9th, Edwin Ing (CG); 10th, Robert Dunkler (T); 11th, Harold Cox (T); 12th Jimmy Patch (T). Winning time, 15 minutes, 59.45 seconds.

Departmental Notes Physics Department

Professor A. W. Ewell attended the Quadrennial International Congress of Refrigeration at the Hague, Holland, June 15-24, as delegate of the American Society of Refrigerating Engineers. He presented a paper at the meeting on "Use of Ozone in Cold Storage." While abroad Professor Ewell worked for several weeks in the ozone department of the Siemens and Halske Company at Siemensstadt, Germany, and in the Refrigeration Laboratory of the Technischen Hochschule in Karlsruhe. Professor Ewell also spent several days at the low temperature laboratories at Cambridge University, Cambridge, England.

Dr. R. T. Young, Jr., spent the summer on the Pacific Coast at the Scripps Institute of Oceanography, La Jolla, Calif. While there he conducted experiments on the penetration of light in sea water, in coastal regions of the Pacific Ocean.

teaching staff of the University of Illinois.

A man who left the industrial field about two years ago to become a member of the faculty at Tech, has resigned to take it up again in the Middle West. Prof. G. A. Gaffert has left a well organized course in Heat-Power Engineering which has been built up under his leadership during his relatively short time at the Institute.

Prof. Robert P. Kolb is Dr. Gaffert's successor as professor of Heat-Power Engineering at W. P. I. He is a graduate of R. P. I., Class of 1919. After being instructor there for two years, he taught at Clarkson College of Technology, Lehigh University, Washington University, North Carolina State College and Alabama. In 1932 Professor Kolb received his M. M. E. from Cornell.

Professor Albert Sutton Richey died of a heart attack on June 24 due, indirectly at least, to overwork. He died at his summer home, "Mississinewa," Kennebunk Beach, Maine.

The contributions that this man made to the prestige of the faculty and college have seldom been equalled. The
(Continued on Page 4, Col. 3)

Bill Forkey Stars For Tech as Waldron Leads Coast Guard Defense

Despite a beautiful offensive game throughout, Worcester Tech's gridders were held to a scoreless tie on Alumni Field by a scrappy Coast Guard team, which was crippled by the loss of its captain, Waldron, and its star, Bill Cass. Although the Engineers kept the ball almost constantly in Coast Guard territory, the nice defense work especially by Waldron, kept the ball from passing the goal line.

Twice, in the second and fourth periods, Coach Bigler's team got within the one-yard line and both times they were just unable to get over to a goal. Near the end of the first half, a prolonged drive, in which Forkey, Gustafson and Germain starred in brilliant running plays brought the ball within six inches of the goal, where it remained through the fourth down.

In the middle of the fourth quarter the Hillers again reached the one-yard line, with two long passes, Forkey to Stone and Forkey to Korolyshun, showing the way. Once again the Sailors' line held and took possession of the ball. Two penalties against the Engineers ended any chance for a safety and Waldron punted the ball well into Tech territory.

For the Coast Guard, Waldron and Land were the stars of the afternoon. Waldron did an unusually good job of kicking punts, his long spirals travelling far down the field and often taking the Guard team out of danger.

The only time that the Coast Guard really threatened was in the last period. Two passes by Waldron that reached the receiver and carried the ball down to Tech's thirty-yard line. Here a penalty halted the forward drive and ended Coast Guard's only real chance for a score.

Tech played a very nice game throughout and showed a team which was good in all departments. Forkey's passing and kicking, a strong line, brilliant broken field running by Germain, Gustafson and Korolyshun and good interference by Elliot all point to a good season.

Next week's game against the powerful Trinity team will show much better the calibre of this year's team.

The lineups:

TECH	COAST GUARD
Rushton le	re Bakanas
Lewin lt	rt Leising
Wilson lg	rg West
Peters c	c Kniskern
Townsley rg	lg Winstead
Chandler rt	lt Prins
Raslavsky re	le Sanders
Germain qb	qb Schrader
Korolyshun lhb	rhb Land
Elliott rhb	lhb Davis
Forkey fb	fb Waldron

Worcester Tech substitutions: Gustafson for Korolyshun, Korolyshun for Germain, Toubman for Wilson, Stone for Raslavsky.

Coast Guard substitutions: Engel for Schrader, Totman for Sanders, Dudley for Totman, Houtsma for Leising, Brown for Engel, Leising for Houtsma.

Officials: Referee, J. J. Burke, Providence, R. I.; umpire C. B. McKay, Cranston, R. I.; headlinesman, F. J. Brennan, Worcester.

BOYNTONIANS START SEASON

(Continued from Col. 1)
Kappa Phi; Philip Atwood, Alpha Tau Omega; Edwin Kiem, Theta Upsilon Omega.

Freshman members: E. E. Hafey, R. S. Davidson, C. W. Tourtellotte, S. Goldenburg.



WORCESTER TECH ALUMNI HOME-COMING DAY NOV. 7, 1936

Meeting of General Committee

There will be a meeting of the General Committee for Alumni Home-Coming Day on Thursday, October 8, at 4:00 p. m., in the Faculty Room, Boynton Hall.

It is hoped that all committee chairmen will attend, together with a group of active committee members who will receive this notice.

Provided all committee chairmen find it possible to attend this meeting, it is probable that we shall not need to have another General Committee meeting, although the Vice-Chairman of the General Committee will expect to meet for special arrangements with individual committees.

Faculty Changes

The students returning to W. P. I. this fall will notice a large number of changes and promotions in the faculty. In the past three months, one professor has resigned, two retired, and one died. In addition to these, one professor has exchanged positions with an instructor from another college and seven instructors have been raised to the position of assistant professors.

As stated in the TECH NEWS last June, Dr. D. F. Calhane, professor of Industrial and Applied Electro-Chemistry, took advantage of the privilege of retiring accorded the members of the faculty after reaching the age of sixty-five.

Mr. Frank C. Howard has been appointed as the new professor of Chemical Engineering, succeeding Dr. Calhane. Professor Howard is a graduate of M. I. T., '17, and received his master's degree from the same institution in 1924. He spent some time in chemical engineering practice before joining the

President Earle Gives Opening Talk at First Chapel Services

Discusses Merits of Attending Chapel Services; "Willingness" Needed to Qualify For Success

Keep Smiling is Slogan For Satisfaction and Team Work During Year

The year starting. The classes and athletics. What is to be found by attendance at chapel.

Here at chapel, we often discuss the traits of character that appear to be the most desirable to cultivate in order to become successful in our lives and this morning will be no exception. The enthusiasm shown by a trustee of the college recently over a speech made in Paris last month was so great that I present for your consideration the trait of willingness which he as an employer felt should be emphasized over all else.

One usually feels that willingness in an associate can be taken for granted, and yet the emphasis placed upon it by this manufacturer led me to wonder whether or not willingness is not a rare attribute of a graduate. I had supposed all possessed that, as it would be necessary obviously for one's advancement.

How to succeed was the title of this address which passed lightly over loyalty, which this industrialist, M. Deteeuf of the French General Electric Company put first and as by far the most essential, to stress as being of almost equal importance the condition of willingness.

This includes the ability to do everything necessary and do it gladly, presupposing a state of mind of constant dissatisfaction with what you are able to do, coupled with the desire to do better.

I think there are always times when we are not exactly willing to do what is wanted whether it be from laziness, indifference or even the thought that as others are available to do this or that difficult or dangerous job why should I bother to do it. There is an expression in the Navy for the lazy or indifferent sailor that expresses the opposite of willingness and what I mean. That is one "a bunt reefer and a yard arm furler." In reefing sail, to pass the weather earring on the end of a swaying topsail yard is no child's play, while a place near the mast where the bunt of the sail would be and the hardest work in furling would come is safe, cozy and easy comparatively. The old time sailor man knew what this expression meant, but his modern type would not. Willingness then in one would call him to do the harder, the more difficult tasks.

When one excuses a failure by saying, "Oh, I have just had bad luck," in most cases he should say, "I was not willing." Willingness will be found in those who are at the head of enterprises, i.e., those who have succeeded. Of necessity, they are hard workers, and remarkable men, men who do not relax. If they become tired they cease to become leaders.

The grades you attain in classroom work are more an indication of willingness than of intelligence. The latter is of course essential but if there's a willingness to do more than one's proper share your success is just around the corner. Whenever you get a little down in the mouth and discouraged just examine yourself and see whether or not you are really exhibiting a 100 per cent willingness and just "cheer up and get busy."

In some industrial plants this slogan is found on placards in the words, "Keep Smiling," for that is a necessity of team work. There is little that can be done without such and it has ever pleased me to note one of our best athletes who plays with his team and not for himself always playing with a smile showing that he at least is

willing and ready to "pass the weather earring in a gale" if called upon.

Isn't it possible to gain knowledge in an easy way if we cultivate this trait of willingness? That this is so admits of no argument and I would suggest we cultivate this trait, combine it with loyalty and team work with our shipmates, and build the real foundation for the success we all crave in life.

Sophs Take It From Freshmen In Paddle Rush

Freshmen Win 42-28 With Only 48 Sophomores Taking Part

Between the halves of last Saturday's football game the gridiron was the scene of that free-for-all between freshmen and sophomores which upperclassmen facetiously call the Paddle Rush. In this first battle of the Goat's Head series, the class of '40 literally walloped its way to a decisive victory, 42-28.

At the crack of the gun which started the affair, Freshmen and Sophomores raced from opposite ends of the field toward seventy-five stout wooden paddles that lay temptingly on the fifty-yard line.

Almost at once paddles churned through the air on their way back to the men who had been selected to guard the captured paddles which would count in the end. At the same time, the sound of flat wood being brought down forcibly into contact with soft and tender flesh, poorly guarded by clothing, rang across the field, while spectators writhed on the benches with sympathy pains. Mass battle-royals and impromptu wrestling matches appeared about the field, as Sophomore battled Freshman and, sometimes Freshman battled Freshman.

After what seemed an eternity to some but was actually only ten minutes Doc Carpenter pointed his gun into the air resisting the impulse perhaps to put some of the casualties out of their misery and pulled the trigger, ending the contests. The paddles were then counted and the new men showed a comfortable plurality of 14. The Sophomores were at a decided disadvantage in the rush, due to the fact that when the opening gun was fired only forty-eight sophomores opposed seventy-five freshmen. We do not know why only forty-eight men from the large sophomore class could be found to take part in the struggle; perhaps class spirit was lacking.

Next week, before the football game, Institute Pond will once again be the scene of that oldest of interclass events, the Rope Pull. Forty men from each of the two lower classes will have a tug-of-war across the water and the losing team will have the doubtful privilege of cooling itself by walking through a nice cold pond to the other side. During the past three years it has been the Freshmen who stirred up the muddy and leafy bottom of that fair lake. Who's next?

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STUDIO — 311 Main Street

Meetings Held In Dormitory For Freshmen

Programs For First 2 Nights Of Orientation Period Sponsored by S. C. A.

After an eventful first afternoon at W. P. I., the unusually numerous Class of 1940 assembled in the Commons Room of Sanford Riley Hall. The new Freshmen made out cards for the S. C. A. and received their "Tech Handbooks," better known as the "Tech Bible."

R. B. Abbe, '38, in his capacity of master of ceremonies and paternal guide of Tech's newest class, introduced Cliff Green who started the evening by having everyone present sing "America." He then continued with several Tech songs, thereby getting the Class of '40 acquainted with the spirit of the Institute. Tech Cheers were then led by Tom O'Neil; the Freshmen certainly got the spirit of the thing, particularly when the cheers were for "40," and "39" was interjected by the members of that honorable class who were present.

Prof. H. J. Taylor spoke to the Freshman class on the "Assets and Liabilities" side of a technical education. He pointed out that an education of this character, although more or less specialized, should be well-rounded out with some outside activity which would certainly be an asset to any engineer no matter what line he may follow.

Tuesday night the Class of 1940 again came together in the Commons Room of Sanford Riley Hall. R. B. Abbe, '38, was chairman of the evening and introduced student speakers who talked on the students' activities on the Hill.

H. T. Wrobel, '37, gave a short talk on the A. I. E. E. Although not an officer of the Skeptical Chymist, J. B. Sutcliffe, '37, gave a brief extemporaneous outline of the aims and purposes of this society. The A. S. C. E. was represented by their president R. K. Linsley, '37. In the absence of any officers of the A. S. M. E., the chairman said a few words concerning its activities. The Cosmopolitan Club was represented by P. R. Swan, faculty adviser of the club, who presented briefly the purposes and activities of this group. The president of Tau Beta Pi, A. H. Powell, '37, told of the purpose of this honorary fraternity. C. A. Keyser, '39, said a few words about the Camera Club, inviting the Freshmen to join.

The Freshman Class rendered Tech songs and cheers in a very enthusiastic way under the able direction of Cliff Green and Tom O'Neil. The Freshman rules were then presented to the Freshmen, who showed their appreciation with more or less appropriate cheers or jeers.

After all upper classmen had been requested to leave, the temporary chairman of the Freshman class was elected under the direction of the Junior chairman. The Class of '40 elected as their head Davidson of Rye, N. Y. After the temporary chairman was elected, a vigilantes committee of six was elected and the meeting was adjourned for a rather spirited encounter between the classes of 1939 and 1940.

FACULTY CHANGES

(Continued from Page 3, Col. 4) time that was not required for his partial teaching schedule was devoted to the solution of involved valuation and rate cases which modern transformations in inter city transit.

Professor Richey was born at Muncie Indiana, April 10, 1874. He was educated in the city schools and matriculated at Purdue University, where he

Prexy Greet Freshman Class

Wishes Tech Men To Become Educated Gentlemen

The class of 1940, largest Freshmen class in several years at Worcester Tech, was formally welcomed on September 28 by President Ralph Earle, who delivered an address urging them to "perpetuate the New England spirit."

Following the address of welcome, Freshmen met their advisers who are as follows: Prof. Francis J. Adams, Prof. Harold P. Fairfield, Prof. Harry B. Feldman, Prof. Harold J. Gay, Prof. William L. Phinney, Prof. Paul R. Swan, and the Messrs. William W. Locke and B. Leighton Wellman. After registering, they followed the time honored tradition of shaking hands with the President.

In brief, the President's address follows:

"On behalf of our staff, I greet you upon entering this old and yet new, college of technology, the Worcester Polytechnic Institute. You have chosen her wisely, we think, as your Alma Mater, and we welcome you heartily to her campus and classrooms. The Class of Forty!—somehow the sound of that makes me feel that time is going on too fast altogether.

"The world today appreciates educated gentlemen as much as of yore it appreciated the wholesome New England spirit, one which sad to relate, some call the spirit of long ago. I have absolute confidence in our youth of today and am not so pessimistic. That was the spirit that made our United States great, and, if perpetuated, as I believe it will be, will make it greater and better as the years go on.

"If we can turn you out after four years here, as educated gentlemen, our task of getting you a good job in which to commence your life's work will be comparatively easy.

"There are many definitions of a gentleman. One sure guide is to remember that a gentleman is never conspicuous. So far as that goes, it answers very well."

was prominent in the classroom and on the campus. He graduated as Bachelor of Degree of Mechanical Engineering in 1894, and received the Degree of Electrical Engineer in 1908. He came to Tech in 1905 as Assistant Professor of Railway Engineering. He was made a Professor in 1907 and Professor of Electrical Engineering and of Business in 1932.

To his fellow faculty members Albert S. Richey will be remembered as a man with whom it was a pleasure to work; the sharp qualities of his reports will be recalled by business men; former students will look back upon his teachings with respect and admiration. Richey was a man's man.

The seven instructors who were recently promoted to the position of assistant professors have been on the faculty for at least six years.

Professor E. C. Brown has been instructor in the Mathematics Department since 1924. He holds the degrees of A.B. and M.A. from Harvard and the University of Maine. He worked with Prof. H. J. Gay on the Tech song "John Boynton," writing the music, while Professor Gay wrote the words.

Professor H. B. Feldman began his teaching career as graduate assistant in 1926. Since 1928 he has been an instructor, considered one of the best teachers in the department. He received his M.S. in 1929.

In the Modern Language and History Department, two instructors were made assistant professors. Prof. J. E. Fitzgerald has been an instructor here since 1927. He graduated from Clark with

S. C. A. Welcomes Freshman Class At Reception

Student Leaders Acquaint New Class With Doings On Hill

The first social event of the college calendar, the Student Christian Association Reception, was held in the Alumni gymnasium on Friday, October 2, 1936 at 7:30 p. m.

After words of welcome from master of ceremonies Robert B. Abbe, '38, chairman of the S. C. A. social committee, Mr. Clifford Green led the assemblage in Tech songs.

Mr. Abbe then introduced Prof. Percy R. Carpenter, director of physical education, who spoke on the value and need of sports and recreation at college, and the various sports here at Tech. At the conclusion of his talk, Doc introduced the various captains of Tech teams. Each man spoke concerning the activities of his team and urged the freshmen to try out for his team.

Captain Jack Germain of the football team spoke first, followed by John Mudgett, captain of soccer. Kim Barber spoke for cross country, indoor and outdoor track. Captain Dick Munson did the honors for basketball after which Captain Eddie Hanson explained swimming here at Tech and the schedule of the freshman team. Jack Casey, captain of baseball, discussed baseball and freshmen chances of making the team. Capt. Charlie Michel spoke for tennis and Mgr. Bill Bushell concluded the sports program with remarks about golf.

Chairman Abbe then introduced representatives of non-athletic student activities, Editor-in-Chief Sutcliffe of the TECH NEWS spoke of the opportunities connected with student newspaper work. Editor-in-Chief Benjamin outlined the work connected with putting out the annual publication "The Peddler." Ray Linsley spoke about the college dramatic society, the Masque, and explained the system of competes and managers. Bill Worthley, president of the Musical Association, invited freshmen out for the Glee Club, Boyntonians and the Band.

President Earle made a few remarks concerning how necessary sports are to a well-rounded education. He brought out the fact that one of the greatest things gained was the ability to appraise others. Prexy stressed the necessity of supporting school teams. He also announced that Bill Cunningham, Boston sports commentator, will speak at the first Fuller lecture on October 13.

After an announcement concerning Chapel talks which begin October 5, the formal part of the assembly was at an end and cider, cheese and doughnuts were in order.

an A.B. and received an A.M. from Middlebury College. He is prominent in activities on the Hill, particularly in the band and the Boyntonians.

Prof. Edwin Higginbottom was also a graduate of Clark and an instructor at W. P. I. since 1927. Last May he was elected an honorary member of the Skull, one of the three. He has been active in athletics as well as teaching, he has been coach of the soccer team since 1927, also playing tennis and squash.

Prof. W. E. Lawton was graduated in 1920 from Tech and, after two years here as graduate assistant, received his M.E. and became an instructor. He has done much work in scientific fields and is a member of Sigma Xi.

Dr. A. J. Schwieger graduated from Hamline University in 1928 and two years later received his M.A. from Clark University. Last June he re-

(Continued on Page 6, Col. 1)

DR. DUFF RESIGNS

(Continued from Page 1, Col. 5)
ultimately to the same cause, the sun. And there is another thing that I think you would note at once, a certain clear regularity and grace of line in the features, such as you would not find in any mixed group in the West.

Of course the Western teacher in India is going to start out with the idea that he is going to talk down to people of inferior intelligence. But, if he has any sense, he will soon change his mind as regards Hindus, at least if there is any free give and take between teacher and student. For the truth is the natural intelligence of Hindus of the Brahmin caste is quite equal to that of the European or American, and all the Hindu students belonged to the Brahmin caste, except three rather striking fellows who came from a remote hill-station where caste had never existed. In addition to ordinary intellectual capacity, Hindus of the higher class have a certain gift of rather subtle analysis or reasoning that seems to ally them in some ways to the ancient Greeks, whose intellectual gifts have

not yet been excelled by any race, and accounts for the fact that several Hindus have recently become very distinguished physicists.

As students they were really charming fellows. But that goes without saying, for college students everywhere are a good lot of fellows and ready to make friends with any teacher who will be friendly with them. But the Hindu student, and perhaps also the Chinese, has a certain distinctive grace of natural courtesy that is hardly equalled by us rough Westerners. Before me, as I write, there hangs on the wall a photograph of myself, seated rather pompously, in the midst of a class of cross-legged or standing students, and on the back of the picture is a copy of an address from the students, presented when I was leaving. I will not quote it, for, alas, I am afraid I got it partly under false pretenses. It tells how grateful they were for my interest in them and their debating society and so on, and I have to confess that a large part of that interest was curiosity on my part to understand the character of this brother race of Aryans, brought

up and living in such a different environment, and that was a curiosity that I had only one year to satisfy. I had taken the position for a single year, replacing a man on furlough, the inducement to me being that I could see a lot of the world and clear my expenses at the same time.

Truly Oriental was their way of taking leave of me at the end of the year. They came to my bungalow in groups of four or five, to show me some special courtesy. For instance one group were musicians and gave me some selections of Hindu music, and that, being really authentic, was fascinating to anyone who knew something of Western music. Another group brought some choice fruits and sweetmeats, and they explained, with a combination of frankness and courtesy that Westerners could hardly have achieved, that they could eat the uncooked fruits with me but, as Brahmins, they were forbidden to eat cooked food with anyone of a lower caste, though they were quite deft in explaining that I was not exactly a Sudra (low caste). The Hindu is highly religious, and they are divided

into numerous sects, but I am inclined to think that for religious tolerance they stand at about the top. A deep sympathetic tolerance of all intellectual and religious differences is perhaps the highest characteristic of the Hindu mind.

And I can still call from memory (for I had to memorize it) the names of my first recitation division: "Alagapen, Anbudaiyan, Aravamuthu Aiyanger... Suryanarayana Aiyer...."

ASSEMBLY

(Continued from Page 1, Col. 1)

"We can surely gather knowledge here, and you are taught by lectures, and by example, the value of personality, but it can only be acquired by participation in all the various phases of student life—athletics, social and class functions, religious teachings—which are all essential, and if one tries to really balance the four sides of one's character, much can be done. A balance is necessary.

"In these days, one must be alive to world affairs and to political ideas. The engineer has a duty as a citizen and as a member of organized society, and

through accepting these obligations one forms his character, which after all, as our late President Woodrow Wilson used to say, is a 'by-product of work well done'."

"We realize that the world now needs more and better engineers, that technology is the one thing upon which the hope of carrying on civilization is dependent, and so today, as we enter upon another college year, I commend to your consideration that you acquire knowledge, and with it, personality and the acceptance of social and public service."

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Nino Martini & Chorus—7 P.M. M.T.
6 P.M. P.T.
FRIDAY
Chesterfield Cigarettes 8:30 P.M. E.S.T.
Kostelanetz Dance Orchestra—
7:30 P.M. C.T.
Kay Thompson—9:30 P.M. M.T.
Ray Heatherton & Chorus—
8:30 P.M. P.T.

Faculty Changes

(Continued from Page 4, Col. 5)
 ceived the Ph.D. from Harvard. He has been instructor at W. P. I. since 1930, and in addition to his teaching duties he has been advisor to the "Peddler" staff.

Prof. P. R. Swan has also been instructor at the Institute since 1927. From the beginning he has had connection with Tech; he entered W. P. I. with the Class of '23 but transferred to Clark where he graduated in 1926. In 1929 he received his M.A. from Clark. Since he has been on the Hill he has been very active in student organizations.

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 Faculty Interviews**

On October 9, 10, 11, and 12, Johns Hopkins University is to hold its centenary at Williams College in Williamstown, Mass. Tech will be represented by Doctor Jennings, Prof. F. C. Howard, Dr. Smith, Dr. Plimpton, and Dr. Beth, all of the Chemical department.

Trinity College of Hartford, Conn., is opening a new chemistry laboratory on October 9. Dr. Jennings, Dr. Butler, and Prof. Feldman will be present at the exercises.

Dr. William Alfred Eddy was inaugurated on October second as president of Hobart College and William Smith College at Geneva, New York. Harold Judson, W. P. I. '23 represented Tech.

THE CHOICE OF BOOKS
 (Continued from Page 2, Col. 5)
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