



TECH NEWS



VOL. XXVI WORCESTER, MASS., OCT. 30, 1934 NO. 5

CORPORATION DISCUSSES GIFTS EMPLOYMENT AT FALL MEETING

Scholarship and Graduate Employment Statistics are Announced

VACANCY CAUSED BY DEATH OF HARRY R. SINCLAIR IS TO BE UNFILLED FOR YEAR

At the annual Fall meeting of the corporation, several gifts to the Institute were announced, scholarships now in effect were reported on, and a discussion was held upon the changes in curriculum which have been made for this year. Several other reports upon graduate employment and upon financial standing were made and discussion was held as to the advisability of electing a successor to the late Harry R. Sinclair, a trustee of the Institute.

Mr. Sinclair was appointed to fill the vacancy caused by the death of the late Henry M. Dingley, and inasmuch as his term was to expire with the end of this school year, it was decided to wait until the spring meeting when the regular election of trustees is held. The vacancy will therefore remain for the rest of this year.

President Earle announced a number of gifts which have been made to the Institute since the last meeting of the corporation: \$10,000 from the estate of Mr. Sinclair has been donated to the school, \$2,500 has been received by the Alumni Association for scholarships, while Mrs. Moses B. Kaven, wife of our trustee from the Class of '85, gave the school \$1,000 with which to purchase new blankets and furniture for the dormitory rooms. Another gift of \$1,000 was made to the school by the estate of Gilbert Bloss, of the Class of '98, and George F. Fuller, a trustee and an honorary member of the Alumni Association, repeated his gift of \$250 to be used as a fraternity scholarship prize.

Some of the statistics concerning graduate employment which were cited in the report were as follows. Of the graduates of the Classes of '30, '31, '32, '33, and '34, 57.6 per cent have permanent positions, 14 per cent have temporary jobs, 34 per cent are doing graduate work, 16 per cent are unemployed, and 9 per cent did not make any report at all. From last year's Class of 1934, only 40 per cent are permanently placed, 9 per cent are temporarily employed, 9 per cent are taking graduate work, and the remainder are either unemployed or unreported.

At present, in addition to the regular endowed scholarships, thirteen students are holders of school scholarships, thirty-four were benefited by industrial scholarships, while twelve Freshmen obtained matriculation scholarships. R. L. Hague, '03, who is vice-president and general manager of the Standard Shipping Company gave the five scholarships to students of the New York-New Jersey area which are in use for the first time this year. The five Freshmen who now hold these scholarships are Gilbert Ashwell, Charles C. Bonin, Richard M. Elliott, Robert H. Nimmo, and Robert L. Somerville.

GLASS BLOWER DRAWS CROWD OF CHEMISTS

Mr. Bicknell Demonstrates Man- ufacture of Apparatus and Ornaments

A crowd of about two hundred which included many students from the Institute as well as from other educational institutions of the city attended the first meeting of the year of the Worcester Chemists' Club held in Salisbury Laboratories on Tuesday, October 23, at 7:45 P. M.

The attraction was Mr. Bicknell of the Macalaster-Bicknell Company Laboratories of Cambridge, Mass., who spent the evening demonstrating the art of glass blowing and glass manipulation.

Mr. Bicknell, a master of this art, is known as one of the first manufacturers of X-Ray tubes of the country and has spent several years at the Jefferson Physical Laboratories of Harvard University. After showing the chemists of the audience how various types of glass apparatus used by them can be made from glass tubing and rod, he proceeded to demonstrate how a skillful glass worker can make all kinds of complicated ornamental objects in a comparatively short time. His fabrication of a small deer, perfect in almost every detail was greatly enjoyed by the audience as was also true of the other animals and ornaments that he made.

Working with Pyrex glass, it was necessary to use oxygen in addition to air in order to obtain the high temperatures necessary for working this type of glass. Some of the articles made are now on display in the illuminated showcase near the Chemistry Lecture room in Salisbury Laboratories.

During the meeting President Webster announced that the next meeting of the society would be held at Clark University on December 4, 1934.

TECH HARRIERS TRIMMED BY MASS. STATE 18-37

Big Three of Mass. State Prove to Be too Powerful for Red and Gray Runners

The crack Massachusetts State cross-country team added Tech to its list of victims last Saturday, when the Worcester team met them on their four-mile course at Amherst. Defeated by the lopsided score of 18-37, the Tech runners cheerfully admit the superior running ability of Mass. State's big three, Captain Stepat, Proctor, and Murray. The Tech team did not once (Concluded on Page 5, Col. 3)

CALENDAR

- TUES., OCT. 30—
 - 9:50 A. M.—Chapel Service. Rev. Myron Fowell.
 - 4:30 P. M.—Orchestra Rehearsal, Alumni Gymnasium.
- WED., OCT. 31—
 - 9:50 A. M.—Chapel Service. Rev. Myron Fowell.
 - 4:00 P. M.—Radio Club Code Classes, E. E. Bldg. Alumni Gymnasium.
 - 4:30 P. M.—Band Rehearsal, Meeting.
 - 7:30 P. M.—Camera Club
- THURS., NOV. 1—
 - 9:50 A. M.—Chapel Service. Rev. Paul G. Macy.
 - 4:30 P. M.—Glee Club Rehearsal.
- FRI., NOV. 2—
 - 9:50 A. M.—Chapel Service. Rev. Paul G. Macy.
 - 4:00 P. M.—Radio Club Code Classes, E. E. Bldg.
 - 4:30 P. M.—Orchestra Rehearsal.
- SAT., NOV. 3—
 - Football—W. P. I. vs. R. I. State at Kingston.
 - Soccer—W. P. I. vs. Tufts at Medford.
 - Cross-Country—W. P. I. vs. R. I. State at Kingston.
 - 8:30 P. M.—Dorm Dance.
- MON., NOV. 5—
 - 9:50 A. M.—Chapel Service. President Ralph Earle.
 - 4:00 P. M.—TECH NEWS Assignments, B-19.
 - 4:00 P. M.—Radio Club Code Classes, E. E. Bldg.
 - 4:30 P. M.—Glee Club Rehearsal.
 - 8:00 P. M.—Sigma XI Meeting.

SOCIETY OF S.P.E. HOLDS MEETING AT R. I. STATE

Mechanics and Electronics In Morning and Excursion in Afternoon

Saturday, October 20, the fall meeting of the New England Section of the Society for the Promotion of Engineering Education was held at Rhode Island State College.

The morning program consisted of two conferences with lectures after which a general discussion was held. The Electronics Conference was under the direction of Prof. Carlton C. Tucker of M. I. T. while the Applied Mechanics Conference was directed by Professor Z. R. Bliss of Brown University.

An inspection trip through the college buildings took place in the early afternoon after which President R. G. Bressler welcomed the members in Bliss Hall. There were three speakers following the president.

The annual dinner was held in East Hall and afterwards a Demonstration of Models in Dynamics by Professor J. P. Den Hartog of Harvard University was held.

Views of the campus, luncheon and an automobile trip to points of interest

SPILLWAY TESTS MADE AT ALDEN HYDRAULIC LAB DURING SUMMER

Flood Flow Conditions of New Barkhamsted Reservoir for Hart- ford Tested on Scale Model

SENIOR CLASS ELECTS MCKAY AS PRESIDENT

Des Rochers Is Vice-Pres.; Tholl, Secretary; Merriam, Treasurer and Humphrey, Historian

Last Thursday immediately following the Hydraulic lecture the Seniors held an election to determine who was to head the class in the capacity of officers. As this class only elects once a year, it was an important election. After the ballots had been counted, the following officers were found to be victorious over their opponents: W. E. McKay, President; R. G. DesRochers, Vice President; E. Tholl, Secretary; R. P. Merriam, Treasurer, and L. G. Humphrey, Jr., Historian.

McKay, who is known as "Bill" to most of us here on the Hill, hails from Springfield and has led the class for the last two years. He is president of the Tech Council, member of Skull, Senior Honorary Society, member of Tau Beta Pi and Phi Sigma Kappa Fraternity. He is also a varsity soccer player and manager of the basketball team.

Ray DesRochers hails from Aldenville, Mass., and is following the straight line of the civils. He is a member of the varsity baseball team and a member of the Friars Fraternity. He has also been active in many other lines while here at Tech.

John Tholl, or "Jack," is an active member of the Masque, holding the job of president of that organization. Last year he was the business manager of the organization. Needham claims him as a native son. He has been active in varsity football and other sports. He is a member of Alpha Tau Omega Fraternity and a member of Skull.

Richard Merriam, or "Babe" as he is known to everyone, is a well-known figure on the campus. He has been treasurer for the last two years and is a varsity tennis man, Circulation Manager of the TECH NEWS and is a member of Theta Upsilon Omega Fraternity.

Leonard Humphrey or "Hump" was chosen for the fourth time to act as Historian of the class. He comes from Marblehead and is a member of Theta Upsilon Omega. He has been active in the band and is the Editor-in-chief of the TECH NEWS. He also is a mechanic.

was the program for the ladies. A social gathering was held afterwards at the home of Mrs. R. C. Bressler.

Among those present from W. P. I. were President and Mrs. Earle, Prof. and Mrs. Morgan, Prof. Newell, Prof. Merriam, Prof. MacCollough, Prof. Fairfield, and Mr. Siegfried. Some of the alumni were also there.

RESULTS OF THE EXPERIMENTS CAUSE SAVINGS AND CHANGES IN DESIGN

During the past summer the facilities of the Alden Hydraulic Laboratory have again been utilized to aid in solving a practical problem in hydraulics. The problem was to study the flood flow conditions for the spillway of the new Barkhamsted Reservoir now being constructed as an addition to the water supply system for the city of Hartford, Conn.

A model of the spillway and waste channel was constructed to a scale one-thirtieth actual size in the laboratory shop. The model was then set up near the spillway of the small regulating pond north of the laboratory. In addition to the hydraulic features the architectural effects were also imitated to exact scale, including the proposed highway bridge and parking area as well as a smaller service road bridge which crosses the waste channel at the lower end. The proposed grading was modeled in sand to enable the architect to view the whole effect.

The hydraulic studies consisted first of a calibration of the model spillway to see that the proper amount of flood water is discharged for a given water elevation in the reservoir. A second series of tests was made to study the shape of the water surface along the walls of the waste channel. A change in grade of a portion of the channel was found to be an improvement. It is expected that considerable less concrete will be required for the walls than was originally planned, for the (Continued on Page 5, Col. 4)

FALL SEMESTER CLASS OFFICERS ELECTED BY '37

Ted Rosenlund Made President; Vice-Presidency to Be Filled Soon

At a physics lecture last week, elections for officers of the Sophomore Class were held without too much fighting or hostility. The nominating committee put up four men for each office and one man was put up from the floor. As the fifth nomination for president was made, some objection was raised but it was quickly smoothed over.

The new president is Ted Rosenlund of A. T. O. and the vice president will be elected this week from the following list: Taylor, Prokop, Dearborn and Higginson, who were the other nominees for president.

Tom O'Neil of Phi Sig was elected to the office of secretary by a good majority, as were Jack Casey of A. T. O., treasurer, and Hank Fuller of Phi Gam, historian.

DORM - DANCE, SAT., NOV. 3 -- 8:30 P. M.

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CONTRIBUTORS TO THIS ISSUE

B. H. Wilson, '38

C. D. Chadwick, '37

E. W. Moore, '38

H. I. Johnson, Jr., '37

W. J. Howard, '38

J. B. Sutcliffe, '37

F. W. Plankey, '37

H. P. Peterson, '38

WHAT DO YOU THINK?

Tech is very fortunate in having so many clubs here on the Hill but when one stops to consider just what they stand for and promote, there is just a wee bit of wonderment in the fact that there seems to be one type of club that could do a flourishing business both in promoting the spirit that has abounded here lately and helping Tech out.

The TECH NEWS feels that a new club, one embodying some of the following ideas would be an ideal asset to our school.

This type of a club would be one that would be composed mostly of men who are active in sports on the campus. These men, who of course have Tech foremost in their minds, would band together, make all necessary plans to welcome our visiting teams, find out what time they have at their disposal and try to make their visit to Tech one that would leave pleasant memories. They could act as escorts to any of our visitors who would care to go through our school or buildings and in every way try to boost Tech. In their care would be placed the idea of a mascot and if they were able to get one (and how we hope we could obtain one) they would have charge of its care and of it during our games.

The members of this club would be distinguishable by some arm band or insignia and they would make arrangements with the visiting team before it arrived here. The membership would be rather limited but have enough good men in its ranks so that there would always be plenty of men on hand when our visitors showed up. Most of the details of the running and formation would be left to the group itself. This idea is by no means a new one. Several schools have tried this plan with varied success, depending on the amount of pep and spirit that is back of such a movement.

The TECH NEWS feels that this would be a valuable addition to our campus and hopes that the undergraduate body will manifest enough interest in it so that it will become a reality before the present basketball schedule goes into effect. If sufficient interest is shown by a few words either to the staff or by a note in the news box, a meeting will be held shortly to launch such a club. Let's go, gang! Let's show them that Tech can be up with the foremost of them, big or not.

THE CALENDAR

The calendar which appears each week on the front page of the TECH NEWS is the oldest regularly appearing feature of this paper. Week in and week out it appears in bold-face type and serves its purpose as a handy reference to what is going on on the Hill. There is no doubt but that it is useful. The only doubt as to its usefulness lies in whether it is of as much use as it might be. We know that it falls short in this respect.

All the important affairs on the Hill—dances, athletic meets, etc.—receive mention in the Calendar but the minor organizations, the clubs and associations are seldom included. This fault definitely does not lie with the TECH NEWS staff. It is the fault of the officers of the organizations who fail to properly announce their meetings and activities. When the Calendar is put together at the Sunday afternoon make-up session it is a wonder that there are not more omissions since the affairs listed are of necessity gleaned from the bulletin boards, the date book in the Bursar's office, and verbal announcements that may have reached the ears of members of the staff. These men are too busy to attempt to get in touch with the officers of all the clubs. They have as many preps as other undergraduates and, in addition, they give up their Sunday afternoons, without expectation of any remuneration, in order to give you the TECH NEWS every week. The present method will, of necessity, result in errors and omissions. The wonder is that there are not more of them than there are. There is only one worthwhile remedy that we can suggest. We request that the president or secretary of every organization on the Hill drop a note in the NEWS box in Boynton Hall whenever any activity is planned by their organization. The TECH NEWS will then guarantee that

the date, time, and place of such events will appear correctly in the Calendar. Inclusion of the activities of organizations in the Calendar will do much to build up their prestige and attendance. MAKE USE OF THE CALENDAR—IT IS YOURS.

THIS IS WORTH READING

It is no striking or uncommon observation that a great many students each term for some reason or other find it impossible to attain the hallowed grade of 60% in one or more subjects. As generally conceded would be the statement that 95% of the students who flunk courses not only fail to have a wholesome interest in the subject, but are quite admittedly and outspokenly bored with it, and seem to have a very low opinion of any person so uncommon as to actually enjoy or have an interest in the same course. The average man would say that this lack of interest was occasioned by the failure on the part of the individual to do well in the subject in comparison with the rest of the class, thus inspiring a natural dislike for something which he is unable to do well.

However, there seem to be a few carts out of place here and a horse bringing up the rear. Is it not equally possible that the effect and cause in the foregoing argument have been reversed, and that the failure to do well has been caused by a lack of interest rather than the opposite relation? Perhaps the habitual taker of make-ups and all the accompanying misfortunes would do better when he is failing a course to try and increase his mark indirectly, by making his interest in the subject the point of attack rather than the actual facts and figures involved. If a man were by some hook or crook to become actually interested in a course in which he is doing poorly, the battle would be all over but the shouting, for it at once becomes a matter of enjoyment and recreation to sit down and study it. One of the most impossible attempts which is consistently made by college students is to extract some real knowledge from some subject with which they are bored and disgusted and which constitutes a disagreeable task which is consequently put off just as long as possible. Truly it seems that a lot of misplaced energy has gone under the bridges, or wherever energy is supposed to go, spent in wearily reviewing distasteful textbooks, when it could so much better have been spent in cultivating a new and consuming interest in the material.

Now how is this all-important interest to be acquired? The writer admits with alacrity that there have been courses in which he never could understand anyone's interest or why anyone ever wasted the time to write a book about it all. He also grants that he has taken a lot of subjects which have been boring through and through concerning which he has never attempted to increase his interest in the manner which he now preaches. However, believe it or not, the plan works; he has tried and proved it, and from now on the writer will know a great deal better how to deal with similar courses.

It is of course impossible to lay down any hard and fast rules for increasing interest, just as much as to stipulate a certain type and size of shoe which must be worn by every member of a community regardless of occupation or physical dimensions. It is a problem essentially individual and different for every subject in which it is desired to dissipate the accustomed apathy. There are, however, a few methods which quite often work. If you are using a text-book which is fit reading for only an extremely advanced research worker with four or five degrees tacked onto his name, discard it and get a simple book. It is vastly better to be unaware of certain details of a subject than to become so emired in a net of them that the general plan of the study is lost. A precept which is of universal value is to revert to fundamentals whenever a subject begins to lose its interest and becomes a task of hard wading. Whenever you understand the position and the importance in the entire outline of a course which certain details play, then they become no longer mere routine, unintelligible matter and it becomes possible to grasp them in their true significance.

Another general rule is to attempt to get more background in the course—if possible look up the stories of its great discoveries and the lives of the men who have made possible the study. You will find a new enjoyment in learning facts when you know the circumstances under which they were discovered and the peculiar difficulties which lay in the path of each. Try reading contemporary magazines which deal with the subject and noticing advances which have been made, and then tie them up with any knowledge of the subject which you may have, so that you will have an up-to-date idea of the direction in which the field is tending.

More important than any specific directions such as the preceding ones, however, is the following "golden rule." **Keep always before you the idea that you are striving for increased interest.** Don't just follow the suggestions given above and expect the interest to grow on you unconsciously; tell yourself that you are working for a better enjoyment of the subject, and you will be surprised at how rapidly it will arrive. When you pick up the book to study don't do it without thinking, but remark to yourself that here is another opportunity to learn a little more about this interesting course and you're darn glad of it.

It all sounds a little silly and impossible until you try it—but it works. And I am as sure of this as of anything reasonable, that if a man would concentrate on the interest in the subject first of all before he does any "scabbing," he will with the same expenditure of time on the course not only develop a more wholesome attitude toward it, but he will do better in the examinations, get better marks, and what is much more important, he will learn and retain an unbelievably larger percentage of the subject matter.

'36 NOMINATES FOR OFFICERS

Elections to Be Held Nov. 12 Following Economics Lecture

The nominating committee of the Junior class has completed its activities, and the following nominations have been announced through the present class president, John T. McGrath, Jr.; for president, Carleton W. Borden, Martin C. Gowdey, and John J. McGrath, Jr.; for treasurer, Alan F. Shepardson, Walter H. Holt, and Richard S. Howes;

for secretary, John R. Brand, George W. Huntley, and George A. Sherwin; for historian, Ernst P. L. Krippendorf, Reginald A. Morrill, and Chester H. Minehan.

In addition to the men on this list, it is of course possible for others to be nominated from the floor at the time of the elections, so that the actual officers may not be contained in this list. While the actual time of the elections is as yet a matter of rumors, most trustworthy reports say that they will be held after Economics lecture on Monday, November 5. These same reports are spreading the information that it is quite unlikely that any of the present officers will be reelected, although little can be foretold at this time.

LIBRARY NOTES

Among the new books in the Boynton library now is Walter Lippman's *Meth- od of Freedom* in which he discusses the general principles in which freedom is finding a new incarnation. Also in the line of Economics, is *Crisis Govern- ment* by Prof. Lindsay Rogers of Columbia. This book deals with various crises and how they have been dealt with by different forms of "crisis gov- ernments." The author also says that there is no form of governmental insti- tution which is fully capable of hand- ling a serious crisis unaided.

In the field of biography, a new addi- tion is in the form of *Great Men of Science*, a translation from German. Philipp Lenard, the writer, presents in a very interesting manner, the lives and works of more than fifty of the world's greatest scientists; among them are Euclid, Pascal and Faraday.

Several books on various phases of engineering have been added to the li- brary collection. Included are *Abbott, National Electrical Code Handbook; Moyer, Power Plant Testing; Stetson, Earth, Radio and the Stars; Willis, Geologic Structures; Bowles, The Stone Industries; Barrows, Water Power En- gineering; Morecroft, Elements of Ra- dio Communication; Kiefer-Stuart, Principles of Engineering Thermody- namics; Kunerth, Textbook of Illumina- tion; Jolly-Waldram-Wilson, Theory and Design of Illuminating Engineering Equipment; Smith, Engineering Draft- ing; Justin Mervine, Power Supply Economics; Davis, Portland Cement; and Faires, Design of Machine Ele- ments.*

An item worthy of note is the ac- quisition of a new Webster's dictionary, containing the latest and largest collec- tion of words in the English language.

FOOTBALL STAR WINS CASE OF ALE

Karaban, Captain B. U. Football Team, a Good Guesser



COMPETING against thousands of New England football fans, W. J. Karaban, fullback and captain of the Brown University Varsity, fore- casted the correct score of the Yale- Penn game, and thereby won fifty dollars and a case of Croft Ale in a novel contest conducted by Neal O'Hara as part of his Croft Ale ad- radio football program.

Captain Karaban was one of four- teen persons who said that Yale would beat Penn by a score of 14 to 6. He took first honors because he gave the best reasons for his fore- cast, in the opinion of the judges, who include Neal O'Hara and other eminent football authorities.

Neal O'Hara, veteran newspaper humorist and star of the kilocycles, has developed an interesting game of scorecasting by means of which his radio audience may try its skill at guessing the scores of the leading games each week. He is on the air from 7 to 7:15 every Tuesday, Thursday and Saturday over sta- tions WJEL, Boston; WTIC, Hart- ford; WTAG, Worcester and WJAR, Providence.

TECH GRIDSTERS BOW TO MASS. STATE IN GAME OF PASSES

States Men Pass Way to Two Touchdowns and Intercept a Tech Pass for the Third Tally—Tech Left Scoreless

McNULTY, HIBBARD, JOHNSON AND MISEVEITH STAR FOR TECH IN 20-0 SHUTOUT

The Mass. State aerial attacks proved costly to the Boynton Hillers as they went down to a 20-0 defeat. Forward passes paved the way for each of the State's three touchdowns. However, the Tech ground attacks were much more effective than the Staters'.

From the general statistics of the game, Tech seemed to take the honors: They chalked up seven first down to the Staters' six. They also completed seven out of nineteen thrusts while the Staters completed only four out of eighteen.

The first score of the game came in the second quarter when Stewart, State's left halfback, hurled the pigskin to his left end, Bell Davis, for a gain of twenty-five yards to place the ball on Tech's fifteen-yard stripe. Stewart went over for a touchdown two plays later. In the final minutes of the same period, Stewart heaved another pass to Lapham who had just replaced Davis and Lapham crossed the line for another six points.

The final tally came in the last period when the Tech men were filling the air with passes in a desperate attempt to score.

Both teams played a good brand of football. Captain McNulty of Tech was the outstanding player. The Tech leader deserved much credit for the manner in which he continually stopped the Maroon and White ball carriers. His plunging also accounted for many of his team's first downs. Other Tech men who starred in the game were Hibbard, Miseveth and Red Johnson. Stewart was perhaps the outstanding performer of the Statesmen.

The Tech Band in its new uniforms added much spirit and color to the game. They marched on to the field before the game and provided music during brief intervals. Much credit should be given the members for the fine music they produced.

Summary:
 Worcester Tech Mass. State
 Johnson re lt Peterson
 Miseveth rt lg Schaffner
 Woodward rg c Rossiter
 Grant c le Davis
 Lawton lg rg Bernstein
 Cantor lt rt Shulkin
 Hibbard le re Adams
 McNulty qb qb R. Peckham
 Dann rhb lhb Stewart
 Carlson lhb rhb Consolatti
 Germaine fb fb Koenig

Touchdowns, Stewart, Lapham, and Filipkowski. Points after touchdown, Mulhall and Nietupski on placements.

Substitutions: Mass. State, Mulhall for Shulkin, Nietupski for Bernstein, Sturtevant for Consolatti, Filipkowski for Sturtevant, Lapham for Davis, Shulkin for Mulhall, Bongiolatti for Adams, Murphy for Koenig, Cumming for Rossiter, Dick Peckham for Stewart.

Worcester Tech: Townsley for Woodward, Court for Johnson, Hodgkinson for Cantor, Frawley for Dann, Swenson for Germaine, Dann for Carlson, Dearborn for Lawton, Cantor for Hodgkinson.

Officials: Referee, J. H. Farrel, Michigan; umpire, E. H. Goodridge, Amherst; head linesman, A. W. Keane, Hartford. Time, four 15-minute periods.

W. P. I. SOCCER LOSE TO BROWN BY SCORE 2-1

Hard Fought Game Carried Into Overtime Period—Mudgett Boots Lone Tally for Tech

Although they outplayed their rivals throughout the game the Tech Booters failed to get the breaks and lost to Brown in an overtime period. The score was tied 1-1 at the end of the last quarter which called for an overtime period. The engineers fought on with determination but their hopes were darkened when Wareheim, a Brown

substitute, booted in the goal which won the game.

The Tech team journeyed to Providence in high spirits, although they fully realized the stiff opposition they were to encounter. With perfect weather for the game both teams seemed confident of proving their superiority, and the game got off to a flying start. From the very beginning the Bears from Brown were having a hard time to hold their own in the battle with these spirited men from Tech. However, Brown drew the first blood when Murray, center forward, kicked a goal in the first quarter. The first score did not down the hopes of the Crimson and Gray, and they continued to show perfect teamwork, and press their opponents every minute.

In the second half Tech broke into the scoring column to even the tide. Mudgett, capable freshman forward, slipped through to score the only goal of the Tech soccermen. A very trying incident occurred in the fourth quarter when Borden, pivot man for Tech, got off a powerful kick which looked like the winning goal. The ball crashed into the crossbar of the goal and glanced straight down on to the goal line, but after some argument the ref-

eree ruled it no goal and the score thus remained a tie. The game ended with the score still even and thus made an overtime period necessary. Wareheim scored a goal for Brown several minutes after the period began which ended the scoring for the day. Thus Tech lost a hard fought game although the team gave an excellent account of itself.

Summary:
 Brown 2
 Read ol
 Burbank il
 Murray cf
 Knott ir
 Fuller or
 Howard lhb
 Henry chb
 Watson rhb
 Chase lfb
 Bauman rfb
 Tolman g
 Goals, Murray, Wareheim, Mudgett.
 Referee, Perry.

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WITH OUR RIVALS

Football

R. I. State 19, Coast Guard 0
 The strong Staters gained another victory last Saturday over the team from New London that took us 13-0. However, this does not by any means mean that Tech will take a shellacking next Saturday, because the Rams only defeated Mass. State 7-0. It looks to us as though the game this Saturday will have plenty of rivalry.

Union 18, Rensselaer 6

The Engineers from Troy don't seem to be able to get started this season; in fact they have lost every game this season. Tech should take them without too much trouble.

Soccer

Tufts 2, Clark 1

It is a general rumor that Clark's booters are not going so good this season, and when Tufts takes them only 2-1, things look good for the Engineers for next Saturday's game. Our soccer men have two wins and two hard-fought losses on their record at present, and the game at Medford ought to give us another win.

*the Wellman Process
does this —*

**...it makes the tobacco
act right in a pipe — burn
slower and smoke cooler**

In the manufacture of Granger Rough Cut Pipe Tobacco the Wellman Process is used.

The Wellman Process is different from any other process or method and we believe it gives more enjoyment to pipe smokers.

... it gives the tobacco an extra flavor and aroma

... it makes the tobacco act right in a pipe — burn slower and smoke cooler

... it makes the tobacco milder

... it leaves a clean dry ash — no soggy residue or heel in the pipe bowl

LIGGETT & MYERS TOBACCO CO.



*... in a
common-sense
package — 10c*

*We wish in some way we could get
every man who smokes a pipe
to just try Granger*

FRACHAT



T. X.

Students in the Economics department are still puzzling over this one. A commodity retailed at forty-nine cents a year ago. In the early fall, through depreciation and use, the intrinsic value of this same article had dropped to the paltry sum of ten cents. Early last week a customer was found in whom demand outran reason, and the price rose to a quarter. In that same day, passing through the hands of three more consumers, the value of the commodity rose beyond all bounds. The contract for the final sale shows the price to be fifty cents, an increase in value of four hundred per cent. Our corps of experts, including Messrs. Makela, Dautrich, Rush, Prokop, and Bissell, are hard at work in an attempt to discover the secret of this phenomenon. They have come to the conclusion that sales at four hundred per cent profit might possibly make wealthy men of all of them. Bissell seems to be holding the short end of the deal. It was he who paid fifty cents for a forty-nine cent hot-plate. In view of his boast that he intends to sell at a profit, we wish to publicly warn any prospective buyer that Liggett's sells the same article new for less than fifty cents.

Seven Colgate men who traveled all the way from Hamilton, N. Y., to watch their team demonstrate real football for the benefit of Holy Cross Saturday spent the weekend at the house. Their astonishment upon seeing how a real technical school functions was most refreshing.

Here's real news. The "Red Menace" and the "Tan Terror" were separated for two whole days. How it ever happened is a mystery, but nevertheless we have it on very good authority that Red actually deserted his tried and faithful vehicle over the weekend. Can it be that Bohaker thinks he's too good for his car?

A sunrise service was held atop Mount Wachusett Sunday morning in memory of something or other. Among those in attendance were S. K. (Geezle) Goodwin and G. A. Noble. They say it was just for the fun of it, but we suspect some unknown attraction since it was cold on the summit. In fact it was cold enough to—well they had to take the brass monkeys indoors.

Dick ("Peaball") Prokop, always the life of every party, in bold defiance of convention has been occupied for the past week in wooing the ever-elusive goddess Morpheus. His activity, or inactivity, in this pursuit was given a serious set-back the other day when Doctor Morley openly and publicly humiliated him by requesting that he do his sleeping in someone else's class.

Willard P. Greenwood, ex '35, and Leonard B. Almy, '34, dropped in Saturday night to liven up the party. Greenwood's visit was punctuated by the appearance of a familiar green Franklin. Apparently absence does make the heart grow fonder. In this connection we might also mention Wiley's visit to a certain Women's college in central Massachusetts, but Plum is a man of influence, so he won't even hint at it.

T.U.O.

At every meal our two embryo architects keep us amused with tales of their wild and woolly instructor and what goes on in classes down at the Art Museum. If what they say is true the rest of us are missing the best course at the Institute.

The House has gone musical in a big way. A band has been formed to rival WPI's famous noise making unit. This is a little publicity for them so they all want their names mentioned. Carl performs at the piano, Hank toots a clarinet, P. Porter blows the bugle, B. A. puffs at the sax, and the drummer is anyone that happens to be around. Their specialty is old fashioned love ballads, like "Anchors Aweigh" which they play with much vim and vigor (but not much harmony). Anyone who is interested in hiring a first class band drop a line to TUO House, care of "THE RIVETTERS." Let them play for your parties—they're guaranteed to keep away all rats and mice, keep dogs out of your garbage pail, and clean out the sink if it happens to be clogged up.

"Doctor," our pride and joy of the faculty, came in to dinner the other day and left with his ardor, or something, considerably dampened. Thereupon, he made a dash for his room and sharpened up three new red pencils. Looks as though a couple of senior mechanics are going to get the well known hooked instrument.

All Friday evening the Ace spent in getting ready for his big moments this weekend. He very carefully creased his trousers (pants, to you) and pressed a necktie. All of which was a complete waste of time seeing as how he'll fall down, OR SOMETHING, and get them all mussed up anyway. Besides all this he completely ruined his last white collar by getting absent minded and leaving the hot flat iron on it too long.

P.S.K.

Last Saturday found the house left with only two fellows and the chef. A couple went to the Dartmouth game, two more home, and quite a sizeable number to Mass. State. Alpha chapter at Mass. State served quite well in warming up the brothers after the game. About a dozen were travelling either with the football team to Amherst or to Providence for the Brown soccer game. Nearly everybody was back, however, by Sunday morning and looked none the less for the wear and tear of the weekend.

The rabbi, baptized William E. McKay so he says, has recently become the most popular magician in the house after he resurrected a jew's harp. So far he can play three songs and he is working hard on the William Tell overture.

Bob Richmond (he doesn't like to be called Krafty) had a date for the Dartmouth-Harvard game Friday night, lost it Saturday morning and had another one by noon, all via Wellesley. What a man! His brother Tom, Dartmouth, '38, spent the weekend at the house.

The slug, listed in the catalogue as Nims, says the bus ride wasn't so hot. —Or maybe that was the trouble.

Johnny Chapman and Bill Carew spent the evening at a formal at Mt. Holyoke. What will Pembroke say, Johnny? "Sonn" Norton, '34, spent the weekend at the house. He's a traveling salesman down in New York and says business is fine. He is still chiseling other fellows' girls.

"Vinny" Buell, '34, who has been living at the house, leaves Monday for the chapter at Ohio State, where he will serve in the capacity as deputy. After about a month there he will go to Tennessee where he has a job in the Tennessee Valley project. Good luck, kid. "Les" Gallup, '28, dropped in Saturday noon for a short visit.

FRIARS

This dynamics course certainly gives the boys something to talk about. Our Senior Civils are still wondering what will happen to the famous motorcycle man going around a vertical circular track if his motor stalls all of a sudden. If an argument is won by loud talking it looks like Cooney and Ed certainly showed Professor Desroche that the motorcycle man would come to solid earth safely. Won't some freshman enlighten our master minds? Cooney is still wishing that the E. E. Department would furnish appropriate

laboratory space for their ambitious men. Can you think of a worse predicament than having the call bell ring every time somebody rings the door bell? It's kind of tough, Langer will have to do something more about that. We suggest looking up all the alarm clocks on the same system. Nobody will be late for class then.

Well, the cold weather certainly aided our effort to get rid of the hornets. After almost setting the house on fire, and burning enough sulphur to kill three or four of the best men of the house, Dame Nature just stepped in and did in a day what these chemists and mechanics tried to do for two weeks.

Hank is willing to challenge anybody on the hill to a face-slapping contest. It's loads of fun for both parties. We suggest that Biff and Moose take it up. Cooney can train for them in the art of ducking. It's marvellous the way that can of tobacco just missed our friend as he was gallantly walking out of the house to see his one and only. Better luck next time, fellows. Don't you think a pail of water would be much more fun?

Our ivory tickler certainly picks on the best night for a date. We wonder if he played "The Serenade for a Wealthy Widow" to his Mary. After hearing it all week, the boys decided to sell the piano or buy some soundproof doors for all rooms.

We wonder if there is a material that will stop the Tarzan yell from being heard. Bids are called for immediately.

After conscientiously training our friend Al for the last week we were disappointed to see him come forth and not first at the Mass. State cross-country meet. We'll have to advance his bedtime from nine to seven o'clock.

Say Biff, the next time you go to a Dorm dance won't you see to it that all the boys get home? It's kind of tough to walk all the way back from South Worcester at two a. m. Ask Ed, he's still wondering if he should buy a pair of new shoes.

Won't somebody find us a record that is snappier than Ray Noble's Tiger Rag? This record is so thin now that we are seriously considering whether to buy a new one of the same or get a different number.

L.X.A.

Lambda Chi's football season opened Saturday on Bliss Field. Several promising stars were uncovered in the game which ended 14-6 in favor of "Gawge" Fuller. The highlight of the game was the inability of Arthur Dyer Tripp, Jr. to keep "Bill" Richards from breaking through and smearing up the plays.

Friday night the house was treated to the sight of "Buzz Harvey" Lee, our big game hunter, sitting in front of his room waiting for "Doug" Merrill to unlock the door and come out. After waiting quite a while "Dubber" went investigating and found "Doug" in his own room studying. Merrill, the master locksmith, had strapped up Lee's door and left via the window. "Peewee" Cole, with the help of "Art" Tripp, reversed the window-climbing act and opened up the room.

Incidentally "Dubber" brought home a partridge Friday, and when it was served to him at dinner Saturday, he gave some of it to "Doug" just to show that everything was in fun.

"Art" Tripp went up to Chicopee last Sunday and passed out the cegars Thursday. That ought to be a lesson to him to keep better watch over his pin.

Eino Leppanen, '32, dropped around to visit the gang Sunday morning. Brother White of Iota Zeta, Brown University, stopped at the house Thursday for a short visit.

P.G.D.

Another week has passed and it is again time to write up the house "news." As most of the news is of an extremely provincial nature it is my purpose to use this space in developing a topic of rather general interest.

The subject is something not only we members of Phi Gamma Delta are aware of, but it is one which a group of fellows are apt to be more conscious of than a single person, and it is, therefore, of interest. The subject is the attainment of an ideal.

Friendship is an attainable ideal for everyone and it depends upon the individual to what extent he will put himself out to gain its full value. Like all else in life, it is governed by the principle that the more one puts into it the more one will get out.

Build your life upon your friendships. Through them you will be able to render your greatest service. The man who builds up his life hopes, ambitions, and achievements upon a firm foundation of friendship can safely feel that his building is as secure as the great pyramids.

"True friendship is a Gordian Knot
Which Angel hands have tied,
By heavenly skill its texture
wrought—
Who shall its folds divide?"

HAROLD LEDUC IS DELEGATE AT Y CONVENTION

Tech S. C. A. Prexy is New England Representative at Conference

For the three days beginning Thursday, October 25, Harold A. LeDuc, president of the Tech Student Christian Association, attended the national convention of Y. M. C. A. leaders, held in Cleveland. The convention, held annually, is for the purpose of formulating Y. M. C. A. policies for the coming year, and LeDuc had the distinction of being New England's sole representative, and as a matter of fact, the only undergraduate delegate to the convention.

This is the first time that a Worcester Tech man has been the representative at a national convention, a position chosen at the New England Council meeting. LeDuc who is also New England editor of the "Intercollegian," official Y. M. C. A. organ, is to address a meeting of Y. secretaries sometime during the next week, and will pass on to them the deliberations of the convention. This meeting is to be held in Worcester, probably on Thursday, November 1.

Fashion Notes
By
Collegiate Digest

Company Tenshun!

Military pockets with deep side vents give the new sport coats a truly "West Point" touch, and the trend toward over-plaid cloth designs with large checks adds a bit of a Scotch atmosphere to them. Added to the wardrobe of the well-dressed collegian, they provide him with a neat classroom attire that goes well with gray flannel slacks. Practical to the 'nth degree, it is meeting with wide acceptance on college and university campuses from coast to coast.



One of the most desirable features of this sport coat is that it is extremely comfortable for classroom wear, as it does not fit so snugly that it hampers the freedom of the arm and shoulder movements. And of course it gives the wearer that certain feeling of "in-fashion" that makes him sure of the correctness of his dress. You can't go wrong on this one.

CAMPUS CHATTER

All aboard for Mass. State, and cars of all description were soon burning up the roads in one way or another for the purple hills of Amherst town. It was an ideal football day with a slight cross-field wind once in a while and it looked after the first ten minutes that predictions were right. However, you all know what happened and stuff and things. It was, nevertheless, quite an exciting game to watch with those long beautiful passes.

There were very many disappointed people when they got there and found out there was no dance. That was the big attraction in many cases. It wasn't long, though, before newly-made plans were being carried out in the direction of Smith, Mt. Holyoke, and even the dorm dance. There weren't many at the dance because nearly everybody went to Amherst. However, that should be no reason for not having them when the game is away from home. Shall we call last Saturday a special occasion?

Highlights as seen from the Press box:

Morrill wrapped up in a couple of bearskins playing a piccolo with his gloves on. Swell music don't you think? That is if you were ever sitting beside him and heard. He played once before President Roosevelt—(was elected).

A couple of alumni looking for the fountain of youth.

"Mizzy" charging through before they even started calling signals. Psychological, maybe.

Hearing someone say McElroy was a good swimmer and runner.

A bunch of bloody lips, noses and eyes.

"Professor" Huntley gave a splendid performance last week in one of his classes as to why some things are and some things are not. He spent a whole period putting arrows on force lines and telling why they didn't act some other way. Faculty take notice. He graduates in 1936.

Nothing this week, Dolly. "Ace" spent the weekend with you, so he says. We wish you would tell him to lay off the powder, however. It has a bad effect on some of the boys.

There is a fellow up in the dormitory who should figure by now he has quite an appeal to the women. He has been carrying on conversations over the telephone and by mail and as yet he has never seen the "girl," although "she" lives in Worcester. We suggest he better look up where he is sending his letters.

One of our illustrious faculty (quite young) was so completely taken in the other evening that it doesn't seem fair to keep it to ourselves. Games are good but for an engineer, to whom the workings of the mind should be familiar, we feel that it is time he knew (we don't believe he knows yet). If he does, we are taken in. When you are concentrating on something it is as good as done. So next time you are lacking knowledge for a quiz—concentrate on not having it. If you're good—and your instructor has a blue chevy roadster—you shouldn't get that quiz for he has seen how concentration works. Of course, a double cross may be in order, for this article might be a double cross in his mind. What about it, Ellis?

"Doc" Matern probably thought business was picking up during the halves of the football game. When they were shooting off the pistol during the rope-pull, he rushed out of the tent to see if anybody was shot. No hits, no runs, no errors.

We're All Ready

To answer any questions you may have about what to wear and when to wear it. Write: Fashion Editor, Collegiate Digest, P. O. Box 472, Madison, Wis.

CHEM. NOTES

Mr. E. B. Romanoff, at the weekly Chemistry Department Seminar held on Friday, October 26, spoke on "The Parachor and Chemical Constitution."

He outlined the older methods used in determining chemical constitution and structure of compounds from their physical properties. The Parachor, a relation between molecular weight, surface tension and density proposed by Samuel Sugden is the latest method.

There is a definite parachor—a constant—for every atom and structural relation between atoms which enables one to determine with precision the structure of a compound by merely adding up the atomic and structural parachors for each atom and linkage in the compound.

Among the books recently added to the Department Library are "Out of the Test Tube" by Harry N. Holmes and "The Discovery of the Elements" by Mary Elvira Weeks.

"Out of the Test Tube" is a volume written for the layman who although non-technical has some interest in Chemistry and would like to penetrate its "wonders" to an appreciation of its methods. In this connection the book will be found of value to the beginner in Chemistry as well as to the specialists since Prof. Holmes presents a bird's-eye view of the whole field of Chemistry in popular and entertaining style. This volume gives one an opportunity to acquire a great deal of interesting information by enjoyable, "not too heavy," reading.

"The Discovery of the Elements" is composed of a series of articles which were published recently in the Journal of Chemical Education. While primarily of interest to the student of the History of Chemistry, this volume is of value to the beginner in that it traces the steps which led in the discovery of all the elements known. It is written in an easily readable style and because of its informative character it will repay well any time spent in reading it.

PHYSICS NOTES

PHYSICS NOTES

Dr. Ewell was the principal speaker at the quarterly meeting of the New England Section of the American Society of Refrigerating Engineers, held at the Massachusetts Institute of Technology on Thursday, October 25. His subject was "Air Conditioning in Cold Storage." After giving an account of recent German and English investigations, Dr. Ewell explained the results obtained under his own direction in the use of ozone in large cold storage plants.

At the Physics Colloquium on Tuesday, Oct. 31 at 4:15, Dr. Duff will conclude the sketch of the "Basis of the Wave Theory of Matter," which he began at the last meeting.

SOCCER

(Continued from Page 1, Col. 2) come close to passing them. At the three-mile mark Mass. State held the first five places, but three of the Tech

team succeeded in passing the fifth man and might have passed the fourth if the course had been longer.

Perhaps the most interesting fact about the race is the triple ties for first place and fifth place. Captain Stepat, Proctor and Murray, all of Mass. State, came in first with the time of 22 minutes and 25 seconds. Captain Moran, Bergstrom, and McKinley of Tech took fifth place, coming in 29 seconds later.

The summary: first, Stepat, Proctor, Murray, Mass. State; fourth, Gillette, Mass. State; fifth, Moran, Bergstrom, and McKinley, Tech; eighth, Bishop, Mass. State; ninth, Calcagni, Tech; tenth, Granger, Tech; eleventh, Irvine, Tech; twelfth, Allen, Mass. State; thirteenth, Bryan, Mass. State. Tech entered but six men in the race as Salminen was unable to participate.

HYDRAULICS

(Continued from Page 1, Col. 5) model tests showed that the height of

the walls might be reduced several feet for a distance of approximately four hundred feet of channel.

A third series of tests was made to devise a way to prevent erosion and undermining of the end of the concrete waste channel. As the anticipated maximum flood is 15,000 cubic feet per second, and the waste channel has a slope so steep that the water reaches a velocity of 60 feet per second, or approximately forty-five miles an hour, it is possible that some 100,000 horsepower of energy may have to be dissipated without damage to the channel. A flaring level apron was developed, which caused the water to jump over the ledge rock immediately at the end of the apron and strike the stream bed about thirty or forty feet downstream, where serious erosion can do no harm to the structure.

Studies similar to those made for this test in preventing erosion of structures have been made several times at the Alden Hydraulic Laboratory in the (Concluded on Page 6, Col. 3)

Good Taste!



Copyright, 1934, The American Tobacco Company.

Luckies

They Taste Better

The world's finest tobaccos are used in Luckies—the "Cream of the Crop"—only the clean center leaves—for the clean center leaves are the mildest leaves—they cost more—they taste better.

"It's toasted"

✓ Your throat protection—against irritation—against cough



Senior Civil Diggings

Around the room with civilities—
By the BRINK of the water, in the
early part of the Day
A BEEBE was playing with a
JEWEL—
While the WHITE clouds were giving
the clouds a merry CHASE,
A deep negro voice emanating from be-
hind the tree kept asking,
Did Yo' LAY 'TIS here or there? In
the meadows
Al was bragging about his Jewess, but
Ray GRANEED HER and told him
he must CAN HER,
Soon came winter and also winter
sports, and at last
Everyone waged that LUSCH KIN
SKI-Jump one hundred feet,
On the way down Lusch wondered,
QUEN WILL WILLIAMS conquer
WILSON in ping-pong?
As everyone had gone to see the jump,
A MOLE LOItered comfortably about
the warm cottage,
But feeling chilly, SAMBOR SKI
rammed to the shack
and
There ended the life of our wanderer;
but thru all
the seasons,
"FEW HAIRS" and "HORSE KERR"
scabbed Structural Design.
It seems that Y D rushed out some
Polish Paninka from Fox Street after

the dance while HE was giving a tall
black-eyed Susan the run around, (Oh
Heinrich!)

Pozzuna would like to introduce a
new figure, his name is to be "No Hair
to Count" Bisso. He is responsible for
dragging a West-Side Frau to the Pal-
ace, last Sunday. Tell us, how was
"the Runt from Mt. Frisco." "Steen
Power" and "Hard Puffer" are called
on twice as often as other students
with names of three syllables in
"Frames." (How's for a name like
Onpepropatulonzis) "Spider" was about
to pull C. M.'s tap gag on "Nite" Day,
however, the latter finished his day
dreamily before any Skull pledging
could take place. (Something in the
name).

Who is writing this column? You
fellows just stuffed around in the dark,
while Pozzum, the unsuspected, is hav-
ing a laugh. Why doesn't some bright
civilities ask Mr. Humphrey, the edi-
tor-in-Chief, to reveal the character.
(Pozzum will be found out sooner or
later and then a new character.)

However, "Have you got a dollar"
Benell coming from northern Sweden
twists his tongue and strikes up the
band with 'Kier Choot, Kier Choot
Choot, Diere Shoore Shoore Choot
etc.' for the same—.

"Jo Jo Rundaitis managed to find his
way to Marshall's last Saturday (Oct.
20) to hear the society band from New
Bedford, while H. E., Y. O., and Co.
danced a few pounds away at the Dug-
gan's Galloping Parlors.

HYDRAULICS

(Continued from Page 5, Col. 5)

past few years, notably those made for
such large dams as those at Conowingo,
Maryland; Waterville, North Carolina;
Osage, Missouri; Rock Island, Wash-
ington and Safe Harbor, Pennsylvania.
Leslie J. Hooper, '24, engineer on the
Laboratory staff for several years, has
been awarded the John R. Freeman
traveling fellowship, and will spend
much of the current year inspecting
hydraulic laboratories in various parts
of the country, beginning next month.

MONOCHROMATIC LIGHT

The comfort of living today must
bow on almost every hand to the influ-
ence of color. Indeed those who refer
to present times as the "age of color"
may look to a growing appreciation in
the field of decoration and a psychol-
ogical influence in the field of merch-
andising for justification of their
viewpoint. Yet, while we may observe
color lighting rising to new and re-oc-
curring heights of respect as a deco-
rative medium, the research laborato-
ries offer new monochromatic light
sources—each producing a single color
—which are destined to open up new
vistas of expression in the art of deco-
rating with light.

In the past the Expositions of world-
wide scope have been more or less har-
bingers of future architecture and de-
coration, to wit, the World's Fair of
1893 as a precedent of the design for
public buildings in state capitols and
county seats. On that score we may

regard the architecture and decorative
practice at A Century of Progress as a
trend of future style and design prac-
tices.

Quite appropriately, the Chicago Ex-
position has been responsible for a new
research work which seeks the use of
color illumination as a medium for add-
ing the finishing touches to the work
of an artist. The official group of oil
paintings of A Century of Progress were
acquired by the Westinghouse Electric
& Mfg. Company expressly for the pur-
pose of experimental work in this di-
rection. Before the American Institute,
New York City, Samuel G. Hibben,
Director of Lighting of the Westing-
house Lamp Company lighting laborato-
ries at Bloomfield, New Jersey. These
were introduced for the first time.

Each canvas is enclosed in a special
color box much like a heavy frame in
appearance. Concealed behind the bor-
der construction of each box is a series
of small incandescent lamps with bulbs
of various colors. By the "cut and
try" method these lamps can be located
so as to intensify or heighten the prom-
inent areas of color in the painting. The
ultimate result of this color illumina-
tion is to enhance each painting by en-
livening the color harmonies and lend-
ing a more life-like aspect to each.

As suggested by Mr. Hibben, it is
entirely within reason to recognize in
the color illumination of paintings a
new medium of expression for the art-
ist.

In adding colored lights to the paint-
box and palette of the artist, a more
successful rendition of night-time scenes
may be obtained. Through the proper

placement of light sources, which in
itself requires a skill and delicacy
paralleling that of painting, the illu-
minated objects of a scene may be
given emphasis without subduing and
hence losing detail in the surrounding
landscape.

STACKED HIGH

Minneapolis, Minn.—College men and
women are on the average taller than
those young men and women who do
not attend an institution of higher
learning, it has been revealed here by
Dr. Harold S. Diehl, of the University
of Minnesota medical faculty, after an
extensive investigation of the heights
of more than 40,000 college students.

Dr. Diehl's studies indicated that col-
lege men attain a maximum growth in
height several years earlier than men in
the general population.

Articles for the Open Forum
Column will not be accepted un-
less they are signed. However,
the signatures will be withheld
on request.

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FARNSWORTH'S
Texaco Service Station
Certified High Pressure Lubrication
Firestone Tires and Accessories
"MAKE THIS YOUR NEIGHBORHOOD
STATION"

Let's find out why Turkish tobacco is so important to a good cigarette



Native tobacco grower
telling American tour-
ists how Turkish tobacco
is cured.

*On the sunny slopes of
Smyrna . . . in the fertile
fields of Macedonia . . . along
the shores of the Black Sea
. . . grows a kind of tobacco
that is different from any
other tobacco in the world.*

THESE Turkish tobaccos
are the only tobaccos of
foreign cultivation that are
used to any great extent in
making American cigarettes.

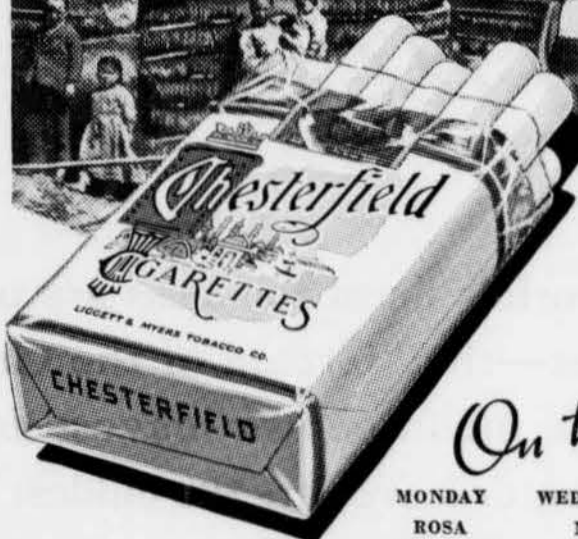
Turkish tobaccos are famous
for their spicy aroma, and a
blend of the right kinds of
Turkish tobacco with our own
home-grown tobaccos is better
than any one kind used alone.

*In Chesterfield we balance
mild, ripe tobaccos grown
in this country with just the
right amounts of the right
kinds of Turkish.*

It is by blending and cross-
blending these different tobac-
cos that we make Chesterfield
the cigarette that's milder, the
cigarette that tastes better.



Turkish tobacco hung in
the open air to be cured.



On the air—

MONDAY WEDNESDAY SATURDAY
ROSA NINO GRETE
PONSELLE MARTINI STUECKGOLD
KOSTELANETZ ORCHESTRA AND CHORUS
9 P. M. (E. S. T.)—COLUMBIA NETWORK