



TECH NEWS



VOL. XXVI

WORCESTER, MASS., DEC. 11, 1934

NO. 10

A. MONKHOUSE, BRITISH ENGINEER IS SPEAKER AT FULLER LECTURE

Russian Labor and Farm Conditions Found in Deplorable State—“Framed” Citizens Forced to Work on Government Projects

RUSSIAN YOUTH IS HELD IN IGNORANCE TO MAINTAIN CIVIL CONSTRUCTION PROGRAM

Allan Monkhouse, one of the British engineers who were arrested in Russia early in 1933, was the lecturer in another of the Fuller assemblies on Thursday, in the Alumni gymnasium. At that time the assembly was presided over by “Ted” Rosenlund president of the Class of '37. The band started off the meeting with a medley of Christmas songs and Rosenlund then called on Prof. George Haynes to introduce our guest speaker.

Mr. Monkhouse was the Russian manager of the Metropolitan Vickers Co. of England and thus gave a splendid first-hand account of the conditions in Russia as he had seen them.

He explained that in Russia, today, there is revealed a steady improvement in the living conditions of the artisans and urban workers but the conditions among the peasants and farming population is deplorable. He even broke down the theory of equal pay to all, which so many believe exists in Russia, and he stated that “piece work” method of paying workers is commonly used. In fact the wage earners are paid according to their ability, on a wage scale quite similar to that used in Great Britain. According to this scale the wages ran from 100 roubles a month for unskilled labor to 600 to 1200 roubles for the same period in the case of engineers and executives.

Despite Soviet Russia disclaiming any imperialistic ambitions she is definitely organizing her industry for the development of Western Mongolia, Western China, Afghanistan and even Persia. Russia realizing the marvelous possibilities in the raw materials in the territory is, said Mr. Monkhouse, working for the development of it with feverish haste.

Much of the support of the programs being carried on in Russia is obtained by keeping the youth uninformed of the privilege of the outside world which is being denied them. Also the church is suppressed in an attempt to blot out religion. Mr. Monkhouse stated that he disbelieved the rumor that Russia might become our superior in exportation of various goods, for the exportable things were so badly needed within the country. He said this state of affairs certainly could not occur for years to come and then only if Russia were forced to export to obtain financial means for continuance of existence.

Mr. Monkhouse concluded his address with a brief account of his trial in Russia and his final acquittal. He stated that the government was in the habit of staging one of these spectacular trials at almost regular intervals and picked out the electrical field for this trial, simply because it was an important line of work in Russia and one that during the trial would hold the public attention. He said that the grounds for arrest were completely unfounded and in the end the engineers in the trial were practically acquitted without consequences.

STUDENTS' HELP REQUESTED FOR XMAS SEAL SALE

Nearly Two Hundred Children Aided Toward Health at Sterling Camp

BUY CHRISTMAS SEALS



HELP FIGHT TUBERCULOSIS

Last week practically every student found in his box in Boynton a letter containing Christmas seals. The first thing a student thinks is that he will just disregard the letter as unimportant and consequently not return the seals or else leave them in the box. These Christmas seals can be used to brighten up the mail.

If any thought is given to this subject, a man is able to see that these seals do a great deal of work for the Southern Worcester County Health Association Inc., which is connected with the Massachusetts Tuberculosis League. This will help to add happiness and health by reducing disease and death, especially that caused by tuberculosis. Every Christmas Seal bought helps a sick child get better, or in the preservation of the health of children and adults.

Last year the seals aided 173 children at Sterling Health Camp to resist tuberculosis. Clinics were conducted to find childhood tuberculosis and to assist the dental clinics in the removal of tonsils and adenoids.

Over a thousand visits in the first six months of 1934 were made to clinics, camps, health education, to tuberculosis patients, conferences, and office calls. Help was given to the needy by placing them in the new County Sanatorium, Putnam Ward, of the Belmont Hospital, and other institutions and clinics.

It is the hope of this organization that they can find and help every person with child or adult tuberculosis.

Let them continue this work and to do this it would be fine if you could buy a few of these seals or all of them. Only five or ten would be a help and it would start the ball rolling.

There will be a TECH NEWS box placed in the Alumni office in which any student may deposit the money or seals. These fifty Christmas seals cost 1 cent each. Buy some of them.

TECH NEWS ASSIGNMENTS

Mon., 4:00 PM. .B-19

CALENDAR

- TUES., DEC. 11—**
 9:50 A. M.—Chapel Service
 Rev. Thomas Foxall.
 4:30 P. M.—Orchestra Rehearsal.
- WED., DEC. 12—**
 9:50 A. M. Chapel Service
 Rev. Thomas Foxall.
 4:00 P. M.—Radio Club Code Instruction.
 4:30 P. M.—Band Rehearsal.
 4:30 P. M.—Intramural Relay Races: A.T.O.-P.S.K., T.U.O.-S.O.P., Friars-L.X.A., S.A.E.-P.G.D.
- THURS., DEC. 13—**
 9:50 A. M.—Chapel Service.
 4:30 P. M. Glee Club Rehearsal.
- FRI., DEC. 14—**
 9:50 A. M.—Chapel Service.
 4:00 P. M.—Radio Club Code Instruction.
 4:30 P. M.—Intramural Relay Races: T.U.O.-S.A.E., T.X.-L.X.A., Friars-A.T.O., P.S.K.-S.O.P.
 7:30 P. M.—Radio Club Meeting, Room B, E. E. Bldg.
- MON., DEC. 17—**
 9:50 A. M.—Chapel, Service
 Prof. H. F. Taylor.
 4:00 P. M.—Radio Club Code Instruction.
 4:30 P. M.—Glee Club Rehearsal.
 4:30 P. M.—Intramural Relay Races: P.G.D.-L.X.A., Friars-P.S.K., S.A.E.-A.T.O., T.X.-T.U.O.
 6:30 P. M.—Fall Sports Banquet.

ALUMNUS WRITES LIFE OF GANTT FOR A. S. M. E.

Inspiring Biography Completed by L. P. Alford, '96—Copy in M. E. Library

Leon Pratt Alford, W.P.I. '96, has written an important informative volume entitled **Henry Laurence Gantt, Leader in Industry.**

The work was sponsored and published by the American Society of Mechanical Engineers as a source of inspiration to engineers. H. L. Gantt was a specialist in the field of factor management and efficiency. His methods are extensively followed, although Mr. Gantt died in 1919.

The volume is divided into three parts: preparation, action, vision. Thus the life of this engineer is easily analyzed and understood. The technique employed in the writing shows that the author has had much experience in writing.

Leon Pratt Alford is one of the most outstanding of the W. P. I. alumni. He is vice-president of the Ronald Press Company (New York City) and the former editor-in-chief of the **American Machinist** and an associate editor on the board of three other engineering magazines. He has written also **Bearings and Their Lubrication, Artillery and Artillery Ammunition, and Management's Handbook.**

This book is in the M. E. library.

GREEK LETTER FRATERNITIES IN MIDST OF ANNUAL RUSH WEEK

Seven National Houses Entertain Rushees for One Week—Time and Effort Prove Vital Factors

FRATERNITIES ARE COMPETING IN RELAY RACES

Theta Upsilon Omega Team Has Attained the Fastest Time Thus Far

Monday, December 3, saw many fraternity men in the gymnasium at 4:30 o'clock to cheer on their respective teams. In the three races run off on Monday, Lambda Chi Alpha out-ran Theta Upsilon Omega, Sigma Alpha Epsilon beat Sigma Omega Psi, and Phi Gamma Delta, last year's winner of the series beat Alpha Tau Omega. The race scheduled between Theta Chi and Phi Sigma Kappa was postponed.

On Wednesday, December 5, the Friars beat Sigma Alpha Epsilon, Phi Sigma Kappa beat Phi Gamma Delta, Lambda Chi Alpha beat Alpha Tau Omega, and Sigma Omega Psi beat Theta Chi.

On Friday Sigma Omega Psi beat Phi Gamma Delta, Theta Upsilon Omega beat Alpha Tau Omega, and the Friars beat Theta Chi. The Lambda Chi Alpha-Phi Sigma Kappa race was postponed.

Theta Upsilon Omega attained the lowest time yet on Friday. Their time was 2 minutes, 26 1/5 seconds. Next comes Lambda Chi Alpha with 2 minutes 26 2/5 seconds.

NEW IDEAS USED IN ORGANIZATION

Glen Gray and Members of His Orchestra Are Stockholders

New York City—Glen Gray and the Casa Loma Orchestra, which holds the record for appearances at college and university functions present new ideas in band organization as well as popular dance rhythms.

Glen Gray is president of the Casa Loma Corporation in which members of the band are stockholders, drawing quarterly dividends as well as regular salaries.

New members are added to the band only after they have been passed on by a board of directors on the basis not only of musical ability but congeniality and personality as well.

This has led to the saying in musical circles that Casa Loma is organized like a business firm and run like a college fraternity.

Originality may be the keynote in their popularity. Casa Loma set a record by playing for more than 70 collegiate affairs in 40 states in three seasons.

The band is now on the air with the Camel Caravan, co-featured with Walter O'Keefe and Annette Hanshaw and broadcast over the Columbia Network every Tuesday and Thursday nights.

PERIOD ENDS ON THURSDAY, DEC. 6, AT 2 P. M.

Beginning Thursday, Dec. 6, at 7:00 A. M. and continuing until the coming Thursday at 2:00 P. M., the annual first week of rushing is now in full swing.

Each year in the late fall, the seven national Greek letter fraternities on the Hill concentrate their efforts on the all important matter of selecting men to carry on the traditions of the respective houses. This year with an especially outstanding freshman class, upper classmen are relatively optimistic in their attitude towards rushing. Needless to say the matter of study has been sidetracked for the moment to make way for this avalanche of progress of the fraternities. Each year at this time the life of each fraternity is confronted with the issue of selection of new blood and sinew, when this has been completed, then and then only can the fraternity man return to the daily schedule of the class room. For if these fraternities do not weather the ordeal satisfactorily then this institution of the college may find itself in a serious position. It is not necessary to elaborate on that point.

But we must not allow ourselves to think that it is only the fraternity which is “on the spot.” The new men must realize that it is a singular honor to receive the attentions of the college Greeks. An honor which is often misused but nevertheless a distinct achievement in itself. The rushies, then are forced to do their own investigating to find the type of a fraternity to which they are best suited. Some time and effort is needed in their judgment also.

TWENTY YEARS AGO AT TECH

Plans are underway to have Professor Winter of Harvard read Dickens' Christmas Carols at the Christmas exercises, preceding the holidays.

The interclass relays are to start January 6th with the Seniors running against the Juniors and the Sophomores against the Freshmen. The two winners will meet in a final race the following week.

President Hollis is scheduled to talk about “Seafaring” at the Y. M. C. A. Dinner next week.

In response to a demand from the student body a Tech recognition pin, available to every student will make its appearance soon.

The Worcester Civils, an independent basketball team composed of Tech men lost to Fitchburg Normal and Uxbridge High School this week. At the same time an independent hockey team of Tech men defeated North High and efforts were being made to secure games with Amherst and M. A. C.

Jigger Jones signed a contract this week to coach the baseball team, therefore settling the long controversy. Jigger is a former Holy Cross star and last year played for Holyoke in the Twin City League.

TECH NEWS

MEMBER
Associated Collegiate Press
1934 Collegiate Director 1935
WISCONSIN

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

NEWS PHONES { Editorial 3-9411
Business 3-9094

EDITOR-IN-CHIEF

Leonard G. Humphrey, Jr., '35

MANAGING EDITOR
Homer R. Morrison, '35

BUSINESS MANAGER
H. Victor Leckie, Jr., '35

NEWS EDITOR

Charles S. Smith

SECRETARY

C. Marshall Dann, '35

CIRCULATION MANAGER

Richard P. Merriam, '35

JUNIOR EDITORS

C. E. Leech, '36

R. A. Langer, '36

R. A. Morrill, '36

G. A. Sherwin, '36

JUNIOR FEATURE EDITOR

H. N. Pierson, '36

BUSINESS ASSISTANTS

Carleton W. Borden, '36

Perry P. Clark, '36

REPORTERS

J. B. Sutcliffe, '37

H. Mieczkowski, '37

TERMS

Subscriptions per year, \$2.00; single copies, \$0.10. Make all checks payable to Business Manager. Entered as second class matter, September 21, 1910, at the post office in Worcester, Mass., under the Act of March 3, 1897. All subscriptions expire at the close of the college year.

THE HEFFERNAN PRESS
Worcester, Mass.

CONTRIBUTORS TO THIS ISSUE

F. W. Plankey, '37

R. B. Jordan, '37

B. H. Wilson, '38

H. I. Johnson, Jr., '37

C. P. Pierce, '37

W. J. Howard, '38

C. D. Chadwick, '37

DEAD OR?

Prof. Herbert P. Taylor didn't "have his tongue in his cheek" when he wrote that editorial for the "Journal" and the Alumni Association will favor those scholars applying who have athletic ability. The all-important problem will lie in keeping them in Tech once they have arrived. The fruits of getting outstanding athletes will be wasted if they are flunked out of school after a year. It might be compared to planting a tree and then cutting it off at the sapling stage before the fruit has reached maturity.

It is going to require the diplomacy of a statesman to carry the matter through. The faculty won't consider letting up on a man in class even if he is an athlete and they shouldn't. But on the other hand, in their efforts to play fair they might lean a little way backwards and lean on these men which will be even worse. Tech will be watched next year like a hawk watches a chicken by practically every college in the country. These men will have to get good marks to justify the policy which has publicly been adopted.

There is only one way to assure the stay of these men and at the same time have them acquiring good marks and the plan will require the cooperation of the faculty. Any tendency of the student-athlete to let his work slide must be checked immediately by the faculty. Men of the type who think that their athletic prowess is the supreme matter have no place at Tech and they will immediately be weeded out. WE DON'T WANT ANY TRAMP ATHLETES. But if a serious student, who is out for athletics, begins to slip, what will be done? This is where the faculty will be called in to help.

They can call in these men and give them an hour or two of tutoring every once in awhile during the season. There are enough men in each department so that it wouldn't result in hardship on any one man and they would all be doing their bit. It will have to be an elaborate system with possibly a weekly check-up on the men on the squad and there will also have to be some one who will arrange for the tutoring. Work such as this cannot be left to any student-manager. It will call for the cooperation of the Athletic Association and the appointment of some responsible person to handle the matter. We leave the thought with the A. A.

ON ATHLETICS

The governing body here at Tech is the Tech Council. Its makeup consists of the president, vice presidents, past presidents and members at large of various classes. The presidents of the various societies as A.S.M.E., A.I.E.E., A.S.C.E. and Scept Chemists, the head of the athletic council, S.C.A., Masque, Musical Association and the editor-in-chief of the "Peddler and the NEWS" and also two members of the Faculty. That it covers the entire scope of the leaders of the school is almost obvious. But the question arises, what is the trouble with these leaders?

The council tries to meet every two weeks and when the word tries to meet is used that is what is meant. For the season's record—about five notices for meetings have been issued by the secretary. Out of these five attempts only three have been fruitful—and only then by waiting until 4:35 to 4:45. Where the trouble lies is a question; can it be the day and time set for the meeting?

Or is it in the fact that there is no interest in the functioning of the organization? If the former is the case why not try a latter hour and a different day and if no results come from it—then some one should bury it six feet under the ground and make a nice marker for it.

It was a definite fact last year that in order to get a good sized group out for a Tech Council meeting, Prexy had to invite them to his house for dinner. If the aspect assumes the same proportions this year as last—eliminate the council but to those who are members of the council we say—it's your duty as leader of your organization as well as a Tech man to make it a point to attend every meeting. See you at the next Tech Council Meeting!

THE PRESIDENT AT HOME

How many students take advantage of Prexy's at home receptions on Monday afternoons? It is doubtless that a great percentage of the students have never attended these receptions.

It is known to everyone that our President is one of the busiest men in the city. He is active in many important affairs in addition to his innumerable duties connected with the school. Now it would seem that if Prexy is kind enough to give up his time in order that the students might become better acquainted with him, it falls upon the students to show their appreciation of this kindness by taking advantage of the opportunity afforded them. These receptions also give the students an opportunity to meet their instructors out of the class-rooms. It is interesting to see them in a different atmosphere.

Other activities will keep many students from Prexy's receptions but those who are able to attend should do so. It is important that we should know our President and it is certain that we enjoy knowing him.

CAMPUS CHATTER

Most people here at Tech won't even get time to read the NEWS this week. In view of that it seems like a waste of time to spend a fine Sunday afternoon making up the paper. However, in view of the staff's sincere efforts to make this the best weekly on the Hill, it was decided to give "youse guys" something to start the fire with one of these cold mornings. At least, it will then be "read" all over.

By the time this is printed rush week will have taken its toll on the sleep and good nature of all true and worthy fraternity men. Everybody got up or were dragged out of bed in the dark on Thursday morning to start the most hospitable week of the year. One thing to be thankful for, however, is the lack of breakfast dates this year. There is nobody who doesn't appreciate being able to stay in bed an extra hour these cold mornings. One thing of note that should be commented upon this year is the lack of mud-slinging which be

(Concluded on Page 5, Col. 4)

LIBRARY NOTES

Security Speculation, a book by John T. Flynn, has been added to the Boynton Hall Library. This volume shows the effects resulting from various activities of stock exchanges. This book deals with the implements, methods, economic functions, and remedies for speculation. The investigations of the Senate Banking and Currency Commission together with the Securities Act are discussed in explanatory detail.

TECH COUNCIL MEETING

The Tech Council meeting which was scheduled to be held Monday, December 3, was not held because there were not enough members present for a quorum. To hold a meeting it is necessary to have ten students and two faculty members present. Since only eight students and two faculty members were present the meeting could not be held. It seems that the schedule of the students conflict with the time of the meeting since this is the second meeting this year which was not held because a quorum was not present.

R. R. FARES FOR STUDENTS HELD TO FORMER LOW

U. S. and Canadian Roads Emphasize Safety, Comfort and Convenience

The "College Special" fares which the railroads of the United States and Canada initiated over a year ago have been very much appreciated by students; also by the faculty and staffs of all educational institutions. It is a recognition by the railroads of the immense travel business in connection with the educational industry and their desire to cooperate with students.

The individual comfort, convenience and safety of the student in travelling by rail, from home to school, has been increased over a period of years. Marked improvement in equipment and time schedules are important progressive factors.

The "College Special" fare is one and one-third of one-way first-class fare for the round trip and stop-overs may be availed of during a ten-day period en route going to or returning from college or school.



19,000 miles per hour

By Long Distance telephone, a sales executive recently "covered" more than 153,000 miles in three business days. He spent a total of eight hours in talking with his agents in 194 cities—using Sequence Calling Service.

This service enables subscribers to place with the Long Distance operator any number of calls on which they wish to talk consecutively. Connections are completed rapidly with a minimum wait between calls.

Sequence Calling is just one of the many services developed to gear the telephone more and more closely to business needs.

Why not visit your folks tonight... by telephone? For a lot of pleasure at bargain rates, use station-to-station service after 8:30 P. M.

BELL TELEPHONE SYSTEM



BASKETBALL SEASON OFFICIALLY OPENS AGAINST STATE TEACHERS

The Tech Squad Looks Promising With Six Experienced Men on the Squad from Last Year

CAPT. SUKASKAS, NOREIKA AND SVENSON STAND OUT IN PRACTICE SESSIONS

The Tech hoopsters play their opening game of the season with State Teachers College Saturday night December 15. Coach Bigler has made the final cut of the squad and has divided the remaining group into varsity and junior varsity. Bill Asp, captain of the team in 1930 will coach the jayvees this year. The varsity squad has plenty of experienced material this year and competition is keen for every position on the team. This gives a promising outlook for the season and with a week left to practice before the first game the engineers should develop a flashy combination for the opening tilt.

Joe Sukaskas, star guard and captain elect of this year's team, has found it possible to return to the squad and this gives the team a much brighter outlook for the season.

Every man on the squad is fighting hard for a position and Coach Bigler is putting the squad through some rugged practice drills in an effort to single out a winning five combination. Johnny Noreika, Joe Sukaskas, and Charlie Smith have all had previous varsity experience and are doing fine work at the guard positions. Dick Munson and Paul Bergstrom, freshman material, are showing up very well in the forward line. Fritz Henrickson is making a strong bid for forward again this year, and Irving Botcher has been moved from the back court work to a forward position. Grublevskas, a newcomer, is also working for a position in the forward line. Marsh Dann and Norm Svenson are jumping at center this year. The lineup has been shifted constantly in order to discover what five men can function best as a unit.

The men on the squad are showing fine spirit and with the support of the student body the team should have a banner season this year, so let's all turn out and give them a good send-off at the opening game of the season.

W.P.I.A.A. AWARDS TWENTY-SEVEN MAJOR LETTERS

Fall Banquet Will Be Held in Sanford Riley Hall Dec. 17th

Twenty-seven major letters were awarded at the annual fall meeting of the Worcester Tech Athletic Association last week. The managers and assistant managers of the next fall's 1935 football and soccer teams were elected and minor letters and class numerals were awarded.

Roger W. Bruce of Westboro will be the 1935 football manager with Caleb D. Hammond of Maplewood, N. J., and Roland O. Farrar of Worcester, as assistant managers. The manager of next year's soccer team will be William C. Maine of Willimantic, Conn., and his assistants are to be John H. Chapman of Swampscott, and Alric H. Powell of Worcester.

Those who gained the football "W" are: Al Cantor of Mattapan, Jarl Carlson of Worcester, Jackie Germain of Worcester, Roger Grant of Kennebunk, Me., Floyd Hibbard of Seymour, Conn., Harold Johnson of Dedham, Roger Lawton of Springfield, Thomas McNulty of Worcester, Marshall Dann of Sharon, Pa., William Mizeveth of

Hampton, Conn., Roy Swenson of Worcester, Dana Woodward of Bloomfield, N. J., and Manager William Wyman of Annisquam.

The varsity soccer insignia was voted to Carley Borden of Fall River, Jack Brand of Worcester, Bill Clark of Fairview, Herb Erickson of Fall River, Hamilton Gurnham of Ludlow, Willy Hebel of South Glastonbury, Conn., Walter Holt of Holden, Clint Leech of Springfield, William McKay of Springfield, John Mudgett of West Springfield, Howard Osborn of Worcester and Charles Puifer of Springfield.

Cross Country "W"—Raymond Granger of Worcester and Al Moran of Somerville, N. J.

Cross Country "c W c," the minor insignia, Robert Chase of Uxbridge, Frank Calcagni of Worcester, Carl Bergstrom of Worcester, James Irvine of Worcester, Theodore McKinley of

Winthrop and Vic Salminen of Leicester.

Track numerals—Sophomores, Robert Chase, Edward Hatch, Stanley Lusas and Samuel Mencow. Freshmen, Charles Bonin, Robert Nimmo, John Bronk, Gilbert Ashwell, James Irvine, Frank Calcagni, Brian Minalga, Gerald McAndrew, Norman Coffin and William Holcomb.

Freshman numerals: Football, Gilbert Ashwell, Richard Court, Warren Davis, Richard Elliott, Norman Gamache, John Germain, Roger Grant, Allen Gridley, Thomas S. Johnson, Everett Leach, Richard Leckie, Edward Sawtell, Isadore Toubman and Roger Young. Soccer, Robert Abbe, Paul Bergstrom, Norman Bouley, Donald Howe, Frank Jenkins, Russell Jennings, John Lawrence, John Mudgett, Robert O'Brien, Roger Squire, Raymond Tolman, Byron Wilson and Richard Munson.

Freshman rifle team numerals—Lucian Allen, John Baskis, Everett Leach, John Harvey, Angelo Mallis and Mason Whiting.

The annual Fall sports banquet will be held in Sanford Riley Hall on Monday evening, December 17, as voted by the council. Members of the Fall sports team will be invited to attend

and a well known athletic speaker will be the guest. Students are entitled to attend to listen to the speaker.

TICKET TAKERS WILL BE HIRED

Gate at the Basketball Games to Be Well Guarded

At the last meeting of the Worcester Tech Athletic Council it was voted to hire ticket takers for the coming basketball season. All students wishing to attend the game must present their tickets to the gatemen to be punched at each game and for no reason will a man be allowed to go into the game without presenting his ticket.

Complimentary tickets must be exchanged at the door with payment of tax to secure an admission ticket. Any tickets found in the hands of others than their owners will be taken up and the owner will have to forfeit the ticket.

Tickets for alumni will be on sale at the door.

Saturday is our first game so let


everyone be present and bring friends so as to start off the season in good fashion.

E. E. NOTES

All is not beer and skittles in research, according to Messrs. Webber and Davenport. Nay, far from it. Take, for example, their last field trip. The lads had their necessary junk for measuring wave intensities all nicely set up in a pasture down near Purgatory when, without any warning, a very much interested cow and her boy friend hove into view, and set a course dead for the apparatus. It didn't take long for Mrs. Webber's favorite son to decide that if he dallied long thereabouts, he might be in the way, so Webber took himself hence over the nearest stone wall. That left Davenport as chief of party, but just as he was about to hand in his resignation, the thundering herd put on the brakes and, coasting up to the tripod, gave the outfit the once-over in a manner indicating that they were only fooling.

The party then assembled itself together again and went on with the (Concluded on Page 4, Col. 3)

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



... in a common-sense package—10c

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

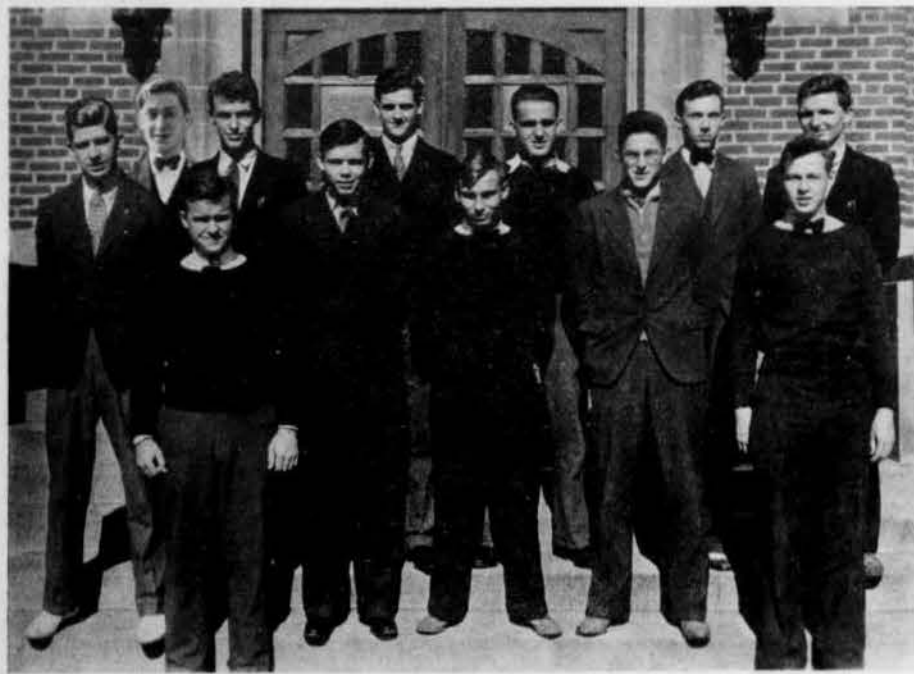
The Wellman Process is different from any other process or method and we believe it gives more enjoyment to pipe smokers.

- ... 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.

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

© 1934, LIGGETT & MYERS TOBACCO CO.



SONS OF ALUMNI
Left to right—Spofford, Berry, Leckie, Gridley, Hanff, Sawtell, Chick, Davis, Munson, Harvey, Haynes, Allen.

Twelve alumni encouraged their sons to enroll. The grandsons shown in the picture are: Lucian F. Allen (Prof. C. M., '94), Ralph L. Berry (L. F., '14), Carlyle M. Chick (G. E., '13), Warren H. Davis, Jr. (W. H., '02), Allen H. Gridley, Jr. (A. H., '13), George E. Hanff (E. A., '10), John C. Harvey, Jr. (J. C., '08), Howard W. Haynes (H. H., '07), R. William Leckie H. V. '11), Richard G. Munson (F. G., '12), Edward A. Sawtell (H. P., '08), and Warren R. Spofford (R. O., '12).



IT RUNS, Lucien Allen, son of Prof. Charles M. Allen, at the throttle of his 1910 Autocar.



The "General," Roger Grant, 270 Pound President of the Freshman Class.

GERMAINE AND SWENSON HONORED

Germaine receives Honorable Mention on All Eastern Eleven; Swenson named on All Massachusetts Swedish Team.

Jackie Germaine, speedy Tech full-back, was last week given mention on the Associated Press' All Eastern Eleven. No opponents were given berths on the team, but Webber, Trinity, Davis, Stewart, and Schaffner of Mass. State likewise were given Honorable Mention.

Roy Swenson, stocky Tech halfback, was given a first team berth on Ralph Colson's All Massachusetts Swedish Eleven.

SENIOR CIVIL DIGGINGS

Yes'm man, Yes'm man, and two more Yes'm mans; laugh we may but marks must come and leave a few of

us with tears (how many?). The ship of fate is reaching its 13/16 goal posts and the captain is about to warn the few misbehaving passengers to correct their habits or their end will be at the 14/16 point (pardons to P.r.x.y.) . . . The civilites receiving two Fs ought to wear red ties . . .

But then the show must go on, so the Mansourers, with their designs, quizzes and fast boners. . . Prof. Rolls Royce states that Power is the rate of doing work, and Pozzum adds Puffer is the rate of catching up on his back work, whereas Runintheditches is the rate of doing advanced work. . . The slenderness ratio of Janewitz Kolloy is 72 inches divided by 18 inches with a unit compressive stress of four taps on the dome plus one kick in his Camp Stephenson's food deposit. . . (Rubber-Belly? no, just a . . .)

Who was the disheartened Techite who with the best suit that his fraternity could offer substituted chauffeur-ing for "No Hair" Bisso on one Saturday aft? . . . The mistress confronted him with, "Sonny Boy—(wow!!)—will you clean the car and sweep it in the inside," and threw a broom at him. . . (Does Beebe know that personage?) . . . Dot, the waitress at the Highland Sea Grill, informs Pozzum that she simply adores that chubby fellow who eats with Slappsomemoreky there . . . (she doesn't show it judging from the small rations Chubby receives).

By the way, what has that "Nize Mister Wyte" that Duroher's Mary, the dancing teacher, went head over ankles for at the carnival . . . Mr. Finkel Williams evidently was not in a sehr gut humor there. . . (whasamatter Notes? didn't "Few Hairs" oblige you with a dance with his five year plan?) [pardon me, Nelson] . . . "All

(Concluded, Col. 5)

E. E. NOTES

(Continued from Page 3, Col. 5)

business at hand, one man taking measurements and the other rubbing Mazie's nose (Introductions had been made by then.) About the time that the last values were being observed, Webber, again sensing disaster, looked around to see Mazie's boy friend as disaster personified, approaching under a full head of steam. There was no fooling this time. One grabbed the apparatus, the other the tripod and both broke for the fence, with the drumming of hoofs in their ears. Well, the boys are still in our midst, declaring it poor taste to wear red neckties down on the farm.

E. E. Inspection Trip

Logan Swift and Brigham were the recipients of a visit by the honorable senior electrics on Thursday last. After herding all the lads onto the top floor, a lecture was delivered on the history and policy of the company leading to their adoption of D. C. motive power for machines, and generation of their own power, and then the gang were allowed to see for themselves.

The trip itself was without incident. No one sat down in any glue, as might be expected or hoped for. There was the usual hysteresis lag, as some of the boys trailed a block or so in the rear of the expedition, with the expected number of raiding parties swooping down upon all unguarded envelopes, second-hand and otherwise.

But what goes up must come down, so in time all the party again gathered in the "reception room," and by numerous trips of the large-scale dumb waiter labeled "Elevator" eventually reached the street. Not a few of the fellows had noted the lack of feminine pulchritude in the plant, and so sought solace in the nearest cinema. It will be nearly a week before the question is brought up of who took any notes.

CHEM NOTES

Through the use of the Kinnicutt Fund for the promotion of the study of Sanitary Chemistry, the Department of Chemistry has acquired a "Hoolamite" carbon monoxide testing apparatus.

This apparatus which was developed by C. R. Hoover and A. B. Lamb is used for the detection and estimation of the carbon monoxide content of air.

Although it is known that carbon monoxide is exceedingly poisonous, it is not generally realized that it is present in dangerous concentrations in the atmospheres of certain industries, in the air of garages, in certain portions of city streets and even in homes hav-

ing imperfect fuelless stoves. It has been found that a very small amount of the gas (0.01%) endured three to six hours per day for a year and a half has no noticeable consequences but larger concentration (0.04%) for exposures exceeding one hour or shorter exposures at higher concentrations may cause sickness, unconsciousness or even death.

The "Hoolamite" tester permits the estimation of 0.1 to 1% Co in less than a minute by comparison of the shade of color secured in the apparatus with standard colors. It can also be used for carbon monoxide concentrations much less than 0.1%. The active material consists of granular pumice stone impregnated with a mixture of iodine pentoxide and fuming sulphuric acid. It is sealed in small glass tubes which are broken at the tips for the test. These are inserted in the main instrument, which consists of a tube of activated charcoal, through which the gases are drawn, and a rubber hand bulb. The charcoal removes all gases from the air stream which could cause a reaction similar to carbon monoxide and give a false test. The rubber bulb discharges through the Hoolamite, changing it from light gray to blue or green owing to liberation of iodine by the oxidation of carbon monoxide when the latter gas is present. A color scale with figures corresponding to the respective percentages of carbon monoxide is fixed along side the tube of Hoolamite.

PHYSICS NOTES

At the Physics Colloquium on Tuesday December 11, Dr. Masius will discuss "The Properties of Hysteresis Loops for Weak Fields" and "A simple and accurate Method of Measuring the Velocity of Cathode Rays."

Dr. Ewell of the Physics Department presented a paper at the annual meeting of the American Society of Refrigerating Engineers in New York City on Wednesday, December 5th. The title of the paper was "The Cooler Storage of Beef." It described recent

investigation upon the cause of deterioration in cooler storage, that is, storage above the freezing point—particularly the injuries due to bacteria, mould and oxidation of the coloring matter as dependent upon temperature, humidity and air motion.

The paper also described Dr. Ewell's own recent investigations. The various methods of retarding deterioration were described—the conclusion being that the only practical solution known at the present time is the use of proper amounts of ozone for proper durations.

SENIOR CIVIL DIGGINGS

(Continued from Col. 1)

Star" Canher and "Playboy" Goosher are surely taking the civil course seriously [I don't blame them] . . . why, prayers are said every nite only for one purpose . . . can you guess? . . . "Beware of the Ides of March" is expressed as "Beware of your Hides or you'll March" . . . I hope all prayers are answered. . . .

"Sammy" is inviting the civilites down to his latest novice in Webster, the Airport Inn. . . Speaking of Inn, we all have heard of the Indian Inn in dear old Webster . . . and as "Sam" came flying out, there was an Indian out. . . He's quite popular for forgetting to shut the exhaust valve of the weighing tank, in the experiment proper of the Centrifugal Pump . . . (how good of a guesser are you?)

When will "Horsehair" Heydent oblige us with some of his yodelling screeches (yes, boys, we have a mountaineer amongst us) . . . anyway, he's quite a pool and ping-pong shark (who wouldn't be after living in the dorm for three years and utilizing all of its conveniences?) . . . Have we all heard of the famous fighting Irish? Sleczkowski and Samborsky, ends, Noreika and Luszczyaski, tackles, Goo-sha and Jodaites, guards, Wilson, the mech, center, etc. . . Here's predicting some happenings about "Dong" Bell and "So What" Mahela in the next issue . . . before P. leaves, let him say, Yes'm man, Yes'm man and (Oh I forgot!) . . .

**For Students and Faculty
Rail Fares
Reduced
1/3**

The railroads appreciate the enthusiastic responses of students and faculty to the "College Special" fares which combine economy with the great advantages of rail travel—safety, speed, comfort and convenience.

If you bought one of the reduced fare round-trip tickets when you came to school this Fall, the coupon is good returning home between December 10 and 25. When coming back after the Holiday, be sure to take advantage of this one and one-third fare ticket, the purchase date for which has been extended to January 16. Diagram below shows going and return dates.

GOING TO SCHOOL	RETURNING FROM SCHOOL		
Round-trip ticket may be purchased at Home Station during any one of the periods named below:	Return portion of ticket may be used to Home Station during any one of the periods named below:		
	Christmas 1934	Spring 1935	Close 1935
Dec. 25, 1934-Jan. 16, 1935	Dec. 10-25	Mar. 9-Apr. 20	May 15-June 30
Mar. 15-Apr. 23, 1935	Mar. 9-Apr. 20	May 15-June 30
	May 15-June 30

Going trip must begin on date ticket is purchased—limited to reach school station within ten days. Return trip must begin on date of validation of ticket by railroad agent at school station—limited to reach home station within ten days. Tickets good over same route both ways. Stop-overs will be allowed in each direction. Tickets good in coaches, also in Pullman cars, upon payment of regular Pullman charges. Baggage will be checked under the usual regulations. No certificate or other form of identification necessary.

TRAVEL BY TRAIN

Assuring your comfort with speed
Your convenience with safety.

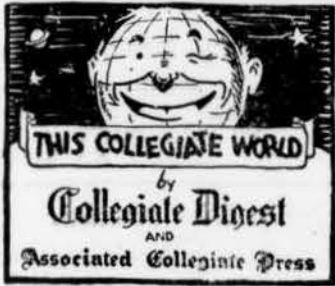
NEW ENGLAND PASSENGER ASSOCIATION RAILROADS AND STEAMSHIP LINES

CHEMISTRY DEPARTMENT NOTES

Dr. W. L. Jennings, head of the Department, attended the meeting of the New York Chapter of the Alumni Association held on Dec. 6.

At the weekly seminar, Dec. 7, Dr. D. F. Calhane spoke on "The Chemistry of Isotopes and Heavy Water."

Dr. F. R. Butler represented the Department at the meeting of the New England Association of Chemistry Teachers held at the Hotel Statler, Friday, Dec. 7.



The Dean of Clarinda Junior College, Richard D. Rowley, is also a student in that institution's freshman class. He is working to obtain credits in French and German to obtain a master's degree.

All students who registered at Fresno State College this fall were required to sign a declaration of allegiance to the United States.

The opening football game defeat for Notre Dame University this year was the first since the Chicago College of Physicians and Surgeons won 4 to 0, in 1896.

Miss Ruth E. Howes, of Holyoke, Mass., represents the third generation of her family to enroll as a student at Radcliffe College, her mother and grandmother both have graduated from the institution.

Smith College juniors who recently sailed to pass their junior year in France, Italy, and Spain, under the Smith plan of foreign study, totaled only 32, as compared with 54 juniors who went abroad last year.

A co-ed has applied for membership in the University of Minnesota (Minneapolis) boxing class—and after careful thought Coach Ed. Haislet has decided that he will offer a "brawn" course for women if enough of them desire it.

Detroit, Mich.—Like all coaches, "Gus" Dorais of the University of Detroit is driven nearly mad by requests for passes during the football season. Not the least of his demands come from his own two sons, Tommy and Billy, who are the most popular boys in Detroit when football holds sway. But the blow-off came the other day when Tommy put the bee on his father for a couple of tickets, after he already had acquired a handful.

"Aren't you going a little strong on these complimentary tickets?" asked the senior Dorais. "You know we have to save a little space in the stadium for the pay customers."

"I know, Pop," replied Tommy, "but you see this is a special occasion. You see the water boy's brother is in town."

Hamilton, N. Y.—About a week previous to the Colgate-Ohio State game, Ted Husing, sports announcer, in his radio talk picked Ohio State to win.

An hour later a rhythmical telegram appeared from Colgate reading this way: "My Dear Mr. Husing: As to Your Choosing that Colgate will be Losing We Have One Hundred Dollars We Are Not Using, and if You Surmise Your Prediction is Wise, Fork Up Your Hundred and We'll Take Youse Guys. (Signed) The Beta House, Colgate University."

Husing wired back this jingle: "As To Your Pleading That Colgate Will Be Leading, I Have a Hundred I'm Not Needing. I fear That the Betas will Soon Lose Their Status as Prognosticators. Please Let Me Know, And I Will Forward the Dough. (Signed) Ted Husing."

"Hundred Coming, Keep Wires Humming With Disastrous News Ohio's Succumbing," taunted Colgate. Husing, wiring the money, advised:

"I Tell You This to Bring You Pain, The Beta's Bet will be Husing's Gain. I'm sorry My Football Erudition Will Cost You Most of Next Year's Tuition."

The game was played. Colgate lost 10 to 7. A few minutes later Husing received this gay surrender:

"Congratulations, You Broke The Bank. As Prognosticators We Are Rank." (Signed) The Betas.

Scientist Einstein would have no examinations in his ideal university, no drilling of the memory. "It would be mainly a process of appeal to the senses in order to draw out delicate reactions," he says.

And Christopher Morley, too, has a sneaking suspicion, and says as much to students, that so-called "extra curricular activities" could be nicely fired out the window.

Morley gave a smothered yelp of delight at a luncheon at the University of Minnesota (Minneapolis) the other day when a professor described the difference between a university and an insane asylum.

"You have to show improvement to get out of the asylum," said the professor.

For heaven's sake:—
At the University of Alabama a girl has just enrolled in a boxing course.

At Northwestern University, the men have just organized a knitting course.

It sort of looks as though the political science professors may as well fold up their tents. Their varied theories of values in politics do not seem to apply to student politics. At the University of Missouri (Columbia) student election 200 more votes were cast than there are students. Like occurrences are reported at Ohio State and at Michigan.

Then at Northwestern University (Evanston, Ill.), sorority girls decided to stuff a ballot box. They selected a list of names out of the student address book, and used them. It was very sad: some of the names they picked belonged to some of the election judges.

One eminent professor at the University of Washington (Seattle) was slowly fraying nerve ends over the habit that co-eds in his class had of continually powdering and rouging during his lectures.

So, one day, he got into a huddle with a male student in the front row. Next day this man came in, sat down, pulled out a razor and shaving mug and slowly proceeded to lather up before the constricted audience.

Some amazing finds have come out of the six-year study of educational methods made by the Carnegie Foundation.

The student who ranked at the top of the whole list of 2,800 examined had flunked steadily in college, whereas a girl about to receive a magna cum laude failed miserably in the Foundation test, standing fifth from the bottom in her state.

The lowest group of students was found in the schools of business administration, although men and women studying to be teachers barely pulled themselves above the ground floor.

A Harvard University (Cambridge, Mass.) philosophy professor was pointing his lecture-room barbs at an "intelligence test" prepared by a psychology department, in which one of the questions read, "What would you do if you found yourself lost in the woods?"

"You might," commented the professor, "sit down on a stump and

chew your fingernails, but it probably would be smarter to look for the moss on the north side of the Ph.D. who wrote the examination."

Why theologians throw up their hands:

Answers to queries at the University of Minnesota (Minneapolis) showed that no one student in a class of 160 had any doubts about the truth of evolution and that only 20 per cent of another large class admitted they had ever heard of Pontius Pilate.

The funeral service which stands out strongest in the memory of a certain class at the University of Kansas was one conducted for an eccentric but beloved old professor. At the height of his oratory, the minister said: "The shell has broken and the nut is gone."

Dripping pearls department:
Harry Woodburn Chase: "The run-of-the-mine product of graduate schools is as standardized and interchangeable, part for part, as any other result of mass production."

Nicholas Murray Butler: "There are only eight institutions in the country which can rightfully call themselves 'universities.'"

CAMPUS CHATTER

(Continued from Page 2, Col. 5)

sides being unsportsmanlike is quite unfair.

Then there was the Junior who ran his car into a tree to rate a bran new "Chevy." Isn't it a tough world, though.

We see by the newspapers that Tech wants athletes. This editorial in the "Journal" has certainly put this school on the map all over the country. In fact, we are waiting for Walter Winchell to say anytime in his column: "Things I Never Knew Till Now—Worcester Tech has a football team." In reality, of course, as everybody knows the original editorial has been entirely misconstrued. There are still no athletic scholarships and there is no indication that there ever will be. On second thought our teams are not so bad anyway. Think of Rensselaer with an enrollment nearly double ours. "Doc" will never stay within the budget if he has to buy stamps to reply to all the letters he has received. Our star Junior tackle claims he is going to hold out for \$1200 for next

year. Too bad for the "Ace" he is only a baseball player. (Well, he did get his letter.)

One of the M. E. instructors is firmly convinced of the need of iron in the system and has taken up the art of eating raisins.

The M. E. department do seem to take a beating but here's another. One of the Profs decided on the need of some slide rule instructions for his class. When not many had their rules he said that a good engineer is never without his slide rule. However, he figured there were enough and, if the class would excuse him a minute, he would go and get his. Hoot mon, what fun.

Established 1821 Incorporated 1918

Elwood Adams, Inc.

154-156 Main Street
WORCESTER, MASS.

Hardware, Tools and Paint
Lighting Fixtures and Fire Place
Furnishings



MOTHER USED TO MAKE THEM—You expect good things to eat from the modern gas range that combines beauty with convenience and economy in cooking.

Progress Means Change

Oxy-acetylene Welding Helps Stove Manufacturers and Others Overcome Initial Factory Costs of New Models

G. O. CARTER*

Once, there were no other means of fabricating metal products except through huge investments in patterns, dies and special tool equipment. Naturally, it was logical for the plant to resist Sales Department pressure for too frequent design changes. Capital investment had to be amortized first.

Now, it is no longer necessary to place this handicap on the sales organization and keep it fighting for sales counter to consumer demands.

Welding Lowers Cost of Stoves

Modern gas ranges, for example, are assembled from a considerable number of enameled sheet steel panels of different sizes. Former manufacturing methods required a set of dies for each panel. The total investment in dies for an ordinary stove in many cases involved several



INVISIBLE JOINTS—Welded corners make a sturdier stove—eliminate chipping of enamel in assembly and in use.

thousand dollars. With such a large investment factories were naturally reluctant to make any change involving the scrapping of dies until enough stoves of a particular model had been manufactured to absorb their cost.

Many large gas range manufacturers now use welding in the fabrication of stove panels and eliminate the necessity for dies. The sheet steel is cut to required size on standard shears; the corners punched out on standard machines; the edges turned up on standard brakes and—the corners are welded.

Welding Is Modern

By adopting welding and cutting these manufacturers have largely eliminated factory resistance to consumer change. This flexible means of production easily permits improvement in current models, or redesign without serious breaks in plant operation, or increased capital investment.

The total cost of operation by the new method is not only lower but it is now possible to follow consumer demand quickly without the necessity of scrapping expensive equipment.

Used in Many Industries

The experience of the stove manufacturer is duplicated in many industries. Redesigning metal products and equipment

for welded construction has resulted in increased strength, utility and permanence. It has been adopted for metal furniture, loud speakers, refrigerators, display signs, sheet metal desks, stainless steel barrels, hoes, truck bodies, and numerous other articles. Welding is applicable to the widest range of materials—steel and the ferrous alloys—aluminum, brass, bronze, and practically all other non-ferrous metals and alloys. Welding is ideal for applications where smooth, invisible joints are necessary for enameling.

Wealth of Experience

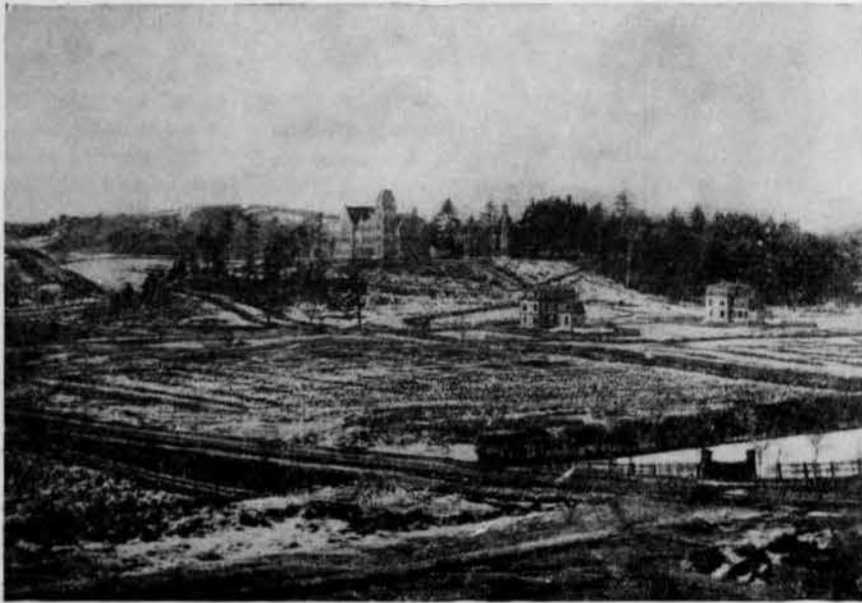
The application of oxy-acetylene welding and cutting to your production problems need not be deferred because it may seem difficult. Linde Development Engineers will work with you and offer valuable engineering assistance in product design—or redesign. The Linde organization can focus upon the problems of one user the combined experience of thousands and day-by-day discoveries of a large research staff. It may be able to help you. Consult the nearest Linde Sales Office—without obligation. Linde Sales Offices are located at Atlanta—Baltimore, Birmingham, Boston, Buffalo, Butte—Chicago, Cleveland—Dallas, Denver, Detroit—El Paso—Houston—Indianapolis—Kansas City—Los Angeles—Memphis, Milwaukee, Minneapolis—New Orleans, New York—Philadelphia, Phoenix, Pittsburgh, Portland, Ore.—St. Louis, Salt Lake City, San Francisco, Seattle, Spokane, and



JOINTLESS AND STAINLESS—Welding makes stainless steel barrels practical in more ways than one. It assures strong joints, resists corrosion, and does not affect the contents.

Tulsa. Everything for oxy-acetylene welding and cutting—Linde Oxygen, Prest-O-Lite Acetylene, Union Carbide and Oxweld Apparatus and Supplies—is available from Linde through producing plants and warehouse stocks in every industrial center.

*Consulting Engineer, The Linde Air Products Company, Unit of Union Carbide and Carbon Corporation. —This being a Business-News Advertisement.



WORCESTER TECH OF LONG AGO

Born thirty years too late, or Guess Where. In carrying on our policy of filling six pages per week we present

Worcester Tech, as 'twas. It looks like at least 40 years' ago. It will be noted that there is no hill where Sanford

Riley Hall now shields the freshmen. The policy apparently followed the belief that it was no fun going home if there was no icy hill to climb.

COLLEGE DIGEST RELEASE

Los Angeles, Calif.—“Necessity is the mother of invention” runs an old adage, and when Greek letter fraternities at the University of Southern California recently were banned from padding their pledges by an edict made by Pres. Rufus B. von Klein-Smid they were forced to uncover an alternative method to keep their neophytes in hand—and find it they did.

Discarding their guiding motto “spare the rod and spoil the child”—another good old adage—the U. S. C. fraternities through concerted action taken by the inter-fraternity council have adopted a “fool-proof” merit system that bids fair to instill respect and decorum in the hearts of the lowly freshmen pledges.

Under the new system now in operation on the Trojan campus, a pledge starts out his fraternity career with a clean slate. For performing his assigned duties in the proper manner he may earn merits, but if he should stray from the straight and narrow path he is the recipient of demerits which can only be removed by doing additional work.

If penalties of work fail to remedy a pledge's conduct, he is placed on probation, and if this fails he is expelled from the group and is denied the right to pledge another U. S. C. fraternity during his college days.

MARSHALL FARNSWORTH
Cor. Highland and Goulding Sts.
Phone 3-9474

FARNSWORTH'S
Texaco Service Station

Certified High Pressure Lubrication
Firestone Tires and Accessories
“MAKE THIS YOUR NEIGHBORHOOD STATION”

Tel. 5-1251

The Fancy Barber Shop

89 Main St. Directly over Station A
GOOD CUTTING
NO LONG WAITS
SIX BARBERS

Honey Dew Restaurant

We specialize in Steaks and Chops

“DINE IN A BOOTH”

205 Main St. Tel. 3-9434

*Wait a minute —
here's what she smokes*

