



TECH NEWS



VOL. XXVII

WORCESTER, MASS., MARCH 10, 1936

NO. 18

Human Side of Engineering Subject of Chapel Talk Given By Pres. Earle as Lent Begins

Urges Students To Take Advantage of Cultural Opportunities Offered

HITS OXFORD OATH

Says That Social Relations Are Not Irrelevant in Engineering Education

Sunday week I attended divine service at the source of the navy's character inspiration—a source that for us here at Tech is embodied in our short chapel services. There, all hands each Sunday receive the urge to improve their social and moral fibre.

The Psalm, 26, there read gave me a suggestion for this morning in the confidence expressed by this phase, "My foot standeth right."

In the church world we are at the beginning of Lent, a season or period for thought and reflection best utilized in a check up on our own characters. When we sharpen our consciences and scrutinize our thoughts and words and actions, we probably all shall find we do not always do our best to "stand right," possibly it is true that we have one nature in our souls yet act to the world in another like a Dr. Jeekyll and Mr. Hyde, to use the example cited by the chaplain, in urging young men of the navy to search out themselves as they entered Lent.

That afternoon at my daughter's tea I talked to six keen young midshipmen who had just matriculated at Worcester Tech or in the city and found them in good spirits and with the common loyalty of which their chapel service is the prime source.

At a meeting of our Washington alumni the following evening I found they wished our course had given them more of the culture, the broader side of life which is found at college in church



PRESIDENT EARLE

or chapel, in society, and through assemblies and athletics with our multitude of extra curriculum activities which possibly they had not utilized to the full. Our business and our economic courses they found most useful, and wished we might have told them how

(Continued on Page 5, Col. 1)

Tech Carnival Will Be Held Saturday Night

Tickets at Bargain Price — Faculty Skit To Be Feature of Show

This Saturday, March 14, the 20th Annual Tech Carnival, under the auspices of the S. C. A. will be held at 8:00 p. m. in the Alumni Gymnasium. The program will include skits by the faculty, sophomores, and freshman, entertainment by the Tech Band and quartet, numerous booths and games, and dancing from ten till twelve, music being furnished by the Boyntonians. Tickets may be purchased at forty cents a person from the fraternity representatives of the S. C. A., from Kingston Atwood and from Allen Benjamin.

The outstanding feature of the evening will be the faculty skit written and directed by Messrs. Wellmand and Downing, who will also play the leading roles.

The Freshmen under the direction of William Ahern will present an act written by Warren Keating. Competing with them for the Carnival Cup will be the Sophomores with Paul Murphy at their head.

RELIEVING THE WATCH

"Eight bells, relieve the watch," the boatswain pipes, and the ship then is in the hands of another part of her crew. The watch going below, or off duty, have done their utmost to leave all secure about the ship; so the new watch then can go ahead and carry on, unfettered by unfinished jobs, toward completion of the work in hand.

So another watch, a new staff, just now has taken over the TECH NEWS, our college weekly. The old staff did its work well, and has left a record of successful accomplishment, together with an organization in smooth-running order. Our hearty thanks and appreciation to them for their good work.

To the new staff our best wishes for even better achievement. Remembering that when we are through changing, we are through; we look for better and better things from TECH NEWS, and expect that it will improve steadily as our Tech paper of life and spirit on Boynton Hill. The college is with you, Editor Sutcliffe, and your staff, she will help and cooperate as she can, and may you all be successful and happy in your watch; and may you continue to increase the usefulness of TECH NEWS to your alma mater, our venerable and excellent Worcester Polytechnic Institute.

RALPH EARLE,
President.

Williams Addresses Assembly On Novel "Double Life" Experience

Sixth Fuller Lecturer Presents Interesting Account on the Subject "What My Double Life Has Taught Me"

COMPARES AMERICAN AND FRENCH ENGINEERS

Stresses Need For Closer Contact Between Employer and Employee So Latter May Feel His Work is Worthwhile



A NIGHT STUDY

Sutcliffe Heads Tech News For Ensuing Year

New Staff Plans to Put Out Best College Paper in New England

The Tech News Association held their annual elections Tuesday, March 3, and elected the Senior and Junior staffs for the next year. John B. Sutcliffe, from Waterbury, Conn., was elected Editor-in-Chief. Sutcliffe is a member of Phi Gamma Delta fraternity, the Cosmopolitan Club, the Skeptical Chemists and the Cross-Country team. Beginning with this issue Sutcliffe and his new staff are endeavoring to put out a paper which will equal those of any college in New England and will satisfy the most rabid critics of the paper in past years.

Harold I. Johnson, Dedham, Mass., a member of Theta Upsilon Omega, was elected Managing Editor. Johnson is well known on the Hill because of his exploits on the football field. The News Editor for the coming year will be Chauncey D. Chadwick, Randolph, Vt., a member of Phi Sigma Kappa. Carl S. Otto, South Hadley Center, Mass., will lead the business staff as Business Manager. Otto is a member of Tau Beta Pi and of Theta Upsilon Omega. John H. Chapman, of Worcester, is Circulation Manager. Chapman is a member of Phi Sigma Kappa and is Manager of Soccer for next year. The Secretary's position is held by J. Morrison Smith, Washington, D. C., a member of Alpha Tau Omega fraternity. Smith is Assistant Manager of Baseball and one of the leading swimmers on this year's team.

Six members of the present Sophomore class were elected to Junior Editorships: Charles C. Bonin, Yonkers, N. Y., a member of the Soccer and Track teams and a member of Phi Sigma Kappa; Allen R. Deschere, New Rochelle, N. Y.; Everett W. Leach, Worcester, a member of Theta Upsilon Omega and a member of the football team; Carl J. Lindgren, also from Worcester and a member of Theta Upsilon Omega;

(Continued on Page 2, Col. 3)

The sixth of this year's series of Fuller Lectures was given in the Assembly Wednesday morning, March fourth, at eleven o'clock by Whiting Williams on the subject, "What My Double Life Has Taught Me." John Casey, presiding officer of the meeting, introduced President Earle who gave the speaker of the morning a very fitting introduction.

Mr. Williams utilized to the fullest extent the varied experiences of his double life to give a very interesting and humorous talk.

He was hired by the Cleveland Steel Company as Director of Industrial Relations with jurisdiction over 4000 workers, the approximate number employed by the company. Not feeling particularly qualified for the position, he suggested that he go out among laborers and learn their troubles. Contrary to expectations he was taken in by workers almost immediately.

In his attempt to become familiar with the problems of labor, he has come in contact with all sorts of conditions and workers and has been in many countries. He stated that he has come to the conclusion that the whole trouble with labor today is in the fact that the employer does not know what his men want, that the Golden Rule has been taken too simply. In trying to give him what he wants the employer tries to put himself in the worker's place and see what he would want, this taking him for granted and by "thirty seconds of imagination and good-will" tries to do that which requires extended study. To remedy the trouble, Williams suggested the eleventh Commandment, "Thou shalt not take thy neighbor for granted."

He then told of his experiences as a minor in the Saar Valley, the supposed "hot spot of the world." But it is not as hot as it seems for there the French engineers, who are over the German miners, making the "hot" combination, go down into the mine every day to talk with the workers, inquire about their needs, and, in general, make themselves agreeable. Why is this? Mr. Williams asserted it is because the professors in the French engineering schools realize that it is the mind or soul of the man that makes him work well, so the mind of the workers must be studied in order to get good work. In the American school, they do not think that there is time to study the men when there is so much to learn about machines and methods. On a French engineer's desk there are books of psychology which an American engineer would be ashamed to read.

The speaker went on to point out

that there is a connection between every job that is done. He referred to a mine where he worked under an older hand as a repair man. When there was a cave-in on a passage, all work and production was stopped until the track could be cleared and fixed by the repairmen because production in a mine depends on getting the ore from the digger to the surface along the shaft. On another occasion Mr. Williams insulted a hobo by inferring that he was a tramp. The hobo said that his tribe were itinerant workers without which seasonal industries would be tied up. If the hobo did not get to the fields at the night time for harvest, the crop would spoil, the farmers would lose, and there would be scarcity. Therefore the "hobo" must take a train even if in an unauthorized manner.

Mr. Williams then continued by saying that the common laborer does not work for the money alone. He wants the job to maintain his self respect as well as his stomach. He stated, that the greatest pity of the unemployment situation is that a man can not obtain a job at least part of the time to obtain food for his soul. He declared that the prayer of the workers today might well be changed to "Give us this day our daily job." In connection with this, he explained that there must be some connection between the money earned and the job done or the man will not work. To illustrate, he told of the Italian worker who, after being asked to dig holes in various parts of a lot without any seeming purpose, was about to quit, but when the boss explained that it was to find a faulty tank which must be fixed in order to operate the water supply, he immediately went back to work. Mr. Williams said that these public works projects are good as long as there is a connection between job and pay, but when there is none, the worker loses his self-respect.

In conclusion, the speaker pointed out that we, as engineers going out to look for jobs, want our self-respect, but we should remember that if we become employers, those that we employ also wish to keep theirs. We should pay our fellow-men the compliment of not taking them for granted.

There were selections by the band and two student announcements, one regarding the Coombs Cheer Contest and the other in respect to the Tech Carnival to be held Saturday evening, March 14. Due to the sense of humor and interesting way of the speaker, as well as his knowledge of the subject, he was enjoyed very much.

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THE HEFFERNAN PRESS
Worcester, Mass.

“... and Yieldeth Place to New”

Every March the TECH NEWS goes through a transition period—the election of a new editorial and business management. This unapplauded “renaissance” in the basement of Boynton Hall has more of a significance than you might be led to suspect. A new group of students—apprenticed to the work for two years—is elected to control a very vital organ in the management of the school. That responsibility alone is reason enough to make most students want to be on the staff. Then too, there is a certain amount of pride and satisfaction in having published an issue that “takes.”

In an engineering school there is no better way to balance one's education than an occasional attempt at writing. One can not hope to gain, or even retain, a decent vocabulary, a necessary possession, by reading merely textbooks and writing answers to problems. Even problems can not be answered without being able to write fairly well. Yet it is hard to tell anyone this and expect him to do anything about it, such as writing for our College paper. There are a few, however, and every March some of those few are given further opportunity to show their managerial ability. These men appear every March in the above block. The present staff has had an apprenticeship of two years to the outgoing group with the additional extremely able leadership of Editor Leach, whose work can be praised none too highly.

The NEWS has advanced rapidly and has gained prestige in the past few years. Different policies, varying with each staff, have been adopted, notable of which are the addition of the Collegiate Digest, a change in the style of the heads, and the color of the print. This with the opportunity to improve come to the present staff as their heritage.

Many new features are already planned, in fact in this, the first issue, you will notice a further change in the heads both in arrangement and kind of type, conducive to clarity and consequently facilitating the reading.

All kinds of changes require work, preceded by initiative, decision, and the ability to disarm and apply criticism. What better training could an undergraduate receive before entering business?

NEWS staffs have come and gone and a few have remained in your memory more than all the rest. Those few are those who work to create a good paper. Thus, speaking technically, for we can't avoid it, the success of a paper is a direct function of the work done on it.

A word as to the features planned for issues to come. A column is to be provided, if occasion allows, in which will be published criticism directed, both favorably and otherwise, to the paper or school. This will indicate interest on your part and will conduce to bettering our paper. There is to be no fraternity column, at least as it has previously existed. Various feature articles, including statements by presidents and personnel managers of industrial concerns as to the type of man they hire, and more editorials are to be presented. In a lighter vein, short stories and an occasional cartoon will be printed. In short, it is the policy to avoid the cold-as-marble, merely factual presentation. How well this is done you are asked to judge by employing the use of the previously mentioned critics column.

And so the case has been stated in behalf of the activity to be continued after the “basement renaissance.”

Opportunity

It is easy here at Tech where the engineering side of our education is so stressed to disregard entirely our need of a cultural background. We forget that a thorough basis in engineering subjects is hardly sufficient to prepare us to hold a responsible executive position which is the dream of four out of five of us students. The answer is, of course, to teach ourselves to recognize and make use of our opportunities to develop this side of our education.

You have all heard, and probably made, the criticism that Tech courses do not offer enough cultural subjects in its curriculum. This is true; engineering subjects ARE given preference. This leaves it entirely up to ourselves to discover ways and means to prepare ourselves culturally. Let us consider

what opportunities are available. Fuller lectures and chapel talks immediately come to mind.

There are many of us who do not realize the amazing opportunity which the Fuller lectures offer us. Six excellent chances to hear prominent men discuss affairs of wide interest have been offered to the whole student body since the beginning of the present college year. These lectures have been well attended on the whole, revealing our interest in world affairs. The list of speakers is impressive when thought of in terms of cultural opportunities. S. Miles Bouton, veteran newspaper correspondent began the Fuller lecture series with a talk on the change of political and living conditions in Nazi Germany. Dr. J. M. Allison professor of European history at Yale discussed the economic and political problems of France. Mr. Nicholas Roosevelt, former high government official in the Philippines and former United States minister to Hungary, revealed the problems confronting the United States in the Pacific. Dr. George H. Blakeslee, professor of history and international relations at Clark, spoke on the subject, “Japan and Italy, the Problem of the Aggressor Nations.” Whiting Williams, an industrial consultant, spoke on “What My Double Life Has Taught Me.” Glancing through this list shows that a cross-section of international, national, and industrial problems of today has been discussed by experts for our enlightenment.

Chapel talks form another big opportunity for cultural advancement. Well-known local pastors and rabbis speak each day for ten minutes on some religious question. On Mondays President Earle, or a professor, or a student speaks to those attending chapel. These chapel exercises form a wonderful chance to hear men discuss everyday problems and to observe their manner and method of speaking. All too few students avail themselves of this opportunity.

Those really interested in cultural broadening do not need to confine themselves to the Tech campus. Worcester is fortunate in possessing an excellent Art Museum. Just recently the works of Rembrandt and his circle were exhibited there and created a minor sensation among local art circles. Through the Worcester Civic Music Association such musical talent as Rachmaninoff, the pianist, Fritz Kreisler, the violinist, the Moscow Cathedral Choir, Richard Crooks, tenor, Elizabeth Rethberg, soprano and soon the Boston Symphony Orchestra have been brought to Worcester this season.

Many more instances might be added to the list of opportunities for cultural broadening but it is not necessary to enumerate them. It is entirely up to the individual student to decide for himself just how far he wishes to go in cultural attainments. But do not make the mistake of limiting your education to just engineering and entering the world without an adequate cultural background.

TECH NEWS ELECTIONS

(Continued from Page 1, Col. 3)

Thomas W. McKnight, Beverly, Mass., a member of Phi Sigma Kappa; and Byron H. Wilson, Worcester, a member of Theta Upsilon Omega. P. W. Keating, Fitchburg, Mass., J. H. Lancaster, Douglaston, N. Y., and R. W. Martin, Springfield, all of the Freshman class were elected reporters.

Robert B. Abbe, South Windham, Conn., and Robert M. Taft, Worcester, were elected business assistants. Abbe is a member of Phi Sigma Kappa and Taft is a member of Theta Upsilon Omega.

The new staff is starting their work with the hope that they will be able to put out a paper which will improve with each issue and will meet the requirements of any good college weekly.

Prexy To Speak
To Newman Club
This Afternoon

Club Will Give Attendance
Prizes to Members in
Good Standing

The regular monthly meeting of the Newman Club will be held as usual in Sanford Riley Hall next Tuesday, March 10. President Ralph Earle will give his annual address to the members of the club at this meeting. His subject is as yet unannounced, but it is certain that whatever the president has to say will be of interest to every member of the club.

In accordance with the new methods of conducting the meetings of the club which were adopted at the last meeting, an attendance prize will be given. Only members in good standing who are present will be eligible for this prize. Several other innovations and departures from the regular routine of the meeting, which were decided upon at the last meeting, will be tried for the first time at this coming meeting.

The attendance of every member of the club is expected, as the annual address of Admiral Earle is of primary importance to all members.

Two Princeton Freshmen stated their political preferences as Nazi in a recent poll.

THE CARRICK AGENCY
ORGANIZED LIFE INSURANCE
Warren R. Purcell
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GENERAL AGENT
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G-E Campus News



LET SCIENCE ARBITRATE

In heated arguments of this kind, the color analyzer is the court of last resort. Recording photoelectric spectrophotometer is the official name of this device, which was recently exhibited at a scientific meeting at St. Louis. It recognizes an infinite variety of hues and shades; it distinguishes differences in color too slight for human eyes to detect; it automatically records the exact color prescription.

The spectrophotometer is proving especially useful for standardizing the color specifications of inks, dyes, paints, paper, and textiles. It makes obsolete such vague descriptive names as blue-black, blue-white, and yellow-green, and substitutes carefully drawn graphs extending over the whole visible spectrum. The operation of the device, which is automatic, depends upon an ingenious combination of a phototube and thyratron tubes with a precise optical system.

The previous method of making exact color measurements required hundreds of tiresome readings and consumed most of a day. The recording spectrophotometer produces a curve of comparable accuracy in three minutes.

NEW LIGHT ON THE MIDDLE AGES

Medieval ecclesiastics would cry “Witchcraft!” could they see the cathedral at Burgos, Spain, tonight. Carefully wrought details of architecture and ornamental carving, never before clearly seen in all their seven hundred

years, now stand forth in bold relief. The thirteenth-century Gothic structure glows, for two hours each night, in the light of a battery of modern General Electric floodlights.

Burgos was, for centuries, the capital of Old Castile, the kingdom of that Queen Isabella who offered to pawn her jewels to finance Columbus' momentous voyage to America. Now, after 444 years, American lighting equipment returns to add luster to what was one of the most important of Isabella's possessions.



DIG HERE

In the old days, a mysterious individual, called a dowser, with a forked divining rod of witch hazel, used to be called in to locate lost articles buried in the earth. A new magnetic detector, recently developed in the General Engineering Laboratory of the General Electric Company, is now substituting science for magic and hocus-pocus. With uncanny accuracy, it is tracking down lost pipe lines.

Water and gas pipes are often lost because old surveys are inaccurate or because records have been destroyed. Digging up a whole street, in order to find a missing pipe line, is expensive business. The new detector has solved this problem by successfully locating pipes laid 40 years ago—pipes buried as much as seven feet below the surface. In one case, pipes were found fully 100 feet from their supposed location, and the detector spotted them within one diameter of the pipe.

GENERAL ELECTRIC

Tech Closes Season With Double Win

Tech Makes Last Minute Spurt To Overcome Brown Bears 46-41

Grublevskas, Hendrickson, Botcher and Swenson End Season by Playing Brilliant Basketball

Team in Championship Style As They Finish Season In Fine Form

Playing their most spectacular game of the season, the Tech cagers clicked perfectly in the last hectic minutes of play and swept on to a thrilling 46 to 41 victory over the Brown Bears. With the score 40 to 35 against them and three minutes playing time left Al Raslavsky started proceedings by sinking an easy sucker shot on a long pass from under his own basket by Swenson. On the next play, Raslavsky was fouled while taking an easy pop at the basket. With two minutes to go and the score 40 to 37 against him, Al calmly tossed both free tries through the hoop cutting down the Bear's lead to a scant one point margin. On the next play Swenson was fouled and he followed the precedent set by Raslavsky and dropped in his free throw. This evened the score and left a minute and a half playing time still to be scored off. The Tech cohorts decided to make good use of these precious minutes and proceeded to do so. Raslavsky popped a beauty from mid court giving the Engineers a two point lead. This was immediately doubled when Dick Munson intercepted a pass from Norcum, who had gotten possession of the ball on the tip off, and dribbled through a hole in the Bear defense and tossed in the shot that made Tech four points to the good. Frankie Jenkins slipped in another from under the basket on a long pass from center to complete the scoring for the evening.

The game was easily the fastest, most spectacular battle waged on the Hill this year. It was cleanly played from start to finish and both teams clicked with clocklike precision. Tech took the lead early in the evening and held it until early in the third quarter when a scoring spurt put Brown well into the lead. This was overcome however in the last few minutes of play by that historical Tech rally. Both teams got off to a fairly slow start, no scoring being done in the very first few minutes of play. Worcester, however, had a little more zip and zest than the visitors and managed to keep the field of action down under the Brown's basket. The Bear defense however was strong and the game was well on its way before the first Tech tally was scored off. Norcum cut loose after intercepting a pass and scored Brown's first shot from the floor. Kennedy followed this with a foul shot. Botcher, Grublevskas and Raslavsky then retaliated by each popping one in quick succession. This started off the break neck pace that continued all through the game. At the end of the first half the score was 13 to 7 in favor of the Boynton Hillers but at the end of the first session the Bears had managed to cut down this lead to a three point margin. The score at the half was 20 to 17. A primary factor in the reduction of this lead was the sharpshooting of Noonan. Brown's classy right forward, who popped four baskets in quick succession in the closing seconds of the first half.

Early in the third period Frankie Jenkins assumed a stellar role and added five points to Tech's end of the score. Proceedings were started with a foul shot and wound up with a beautiful long shot from center. Time out was called by Brown and apparently the pep talk in the huddle had some effect for the boys from Rhode Island immediately started to go to town. Marcum,

Kennedy and Van Aken deadlocked the count with a basket each in quick succession. Time out was then called by Tech, the Bears were hot and nothing could be done about it. Raslavsky added one tally which again tied the score, but it was of no avail. Kennedy and Marcum again repeated their performances of a few minutes before and scored again boosting the Brown total to 36. Another time out was called by Tech in a desperate effort to break the visitor's stride. When time was called again Marcum streaked down through Tech's defense and added another to the ever increasing pile of Brown baskets. Swenson managed to stick in one shot from the floor but the effect of this was counteracted by Van Acken who added another, making the count 40 to 33 in favor of the visitors.

With five minutes left to play and a seven point margin against them, the Hillmen decided that the time was ripe to strike. They did, and began an attack that will be historic. Raslavsky and Swenson played during that five minutes as they had never played before. With unerring accuracy and setting a pace that was terrific in its intensity, these two boys led their team on to the most thrilling victory of the year. Every man played an extraordinary game during these last minutes. It was a fitting finish for the basketball careers of the four seniors who were towers of strength for their team, Grublevskas, Hendrickson, Botcher and Swenson.

Raslavsky and Noonan shared honors for the game. Ras gathered in seventeen points while Noonan was a close second with fifteen points. Swenson scored nine points.

The game was a thriller from start to finish and was a feather in Tech's cap as the Brown cagers presented no ordinary competition. The Bears had victories over Yale and Rhode Island State safely under their belts and had every intention to adding Tech's scalp to their noteworthy collection. The superb performances of every member of the home team soon dashed the hopes of the visitors and they were forced to extend themselves to the limit to forestall the possibility of a shameful defeat.

The summary:

WORCESTER TECH			
	fg	fp	tp
Hendrickson rf	3	0	6
Munson rf	1	0	2
Raslavsky c	7	3	17
Swenson lf	4	1	9
Botcher rg	0	1	1
Jenkins rg	2	1	5
Grublevskas lg	3	0	6
Totals	20	6	46
BROWN			
	fg	fp	tp
Noonan rf	7	1	15
Burbank rf	0	0	0
Marcum lf	4	3	11
Kennedy c	3	5	11
Armstrong rg	0	0	0
Van Acken lg	2	0	4
Sharkey rg	0	0	0
Totals	16	9	41

Referees: Dick Roberts and Don Bennett.

It was at Fordham University (New York City) that the zoology professor announced all students in his class would participate in a test to determine whether microbes were transmitted by kissing. On the day set, attendance was perfect.

Then what did the man do? He gave each person a little pad of sterilized cloth with instructions to kiss it and daub it on a microscopic slide.

Tufts, State Defeat Tech In Track Meet

Frawley and McGrath are First in 50-Yard Dash And Hurdles

Completely outclassed in all but three events, the Tech tracksters were decisively defeated by Tufts and Mass. State in a triangular meet at Tufts Gym, Saturday afternoon. The team showed power only in the hurdles, 50-yd. dash and high jump.

McGrath won the hurdles after a hard fight with Avery of Mass. State; Menceow was a very close third. In the 50-yd. dash Tech had three of the four men in the final heat, and in near record time Frawley breasted the tape inches ahead of Arbenne of Tufts and Coffin and McGrath.

Banan and Kennett of Mass. State held their usual high jump duel with Kennett coming off on top. McGrath scored a third in this event to complete the scoring for Tech with the exception of a fourth in the shot put by Chandler.

Tufts held complete sway in the 300, 600, and 1000 yd. runs, gathering 29 points in these three events.

The final score was Tufts 41, Mass. State 26 1-2, W. P. I. 20 1-2.

The summary:

50-yard dash—Won by Frawley (WP I); 2nd Arbenne (T); 3rd Coffin (WP I); 4th McGrath (WPI). Time, 5 3-5 sec.

300-yard run—Won by Tetzlaff (T); 2nd Folsom (T); 3rd Dobby (M); 4th Guernard (M). Time, 35 sec.

600-yard run—Won by Tetzlaff (T); 2nd Starr (T); 3rd Folsom (T); 4th Quinlan (T). Time, 1 min. 2-5 sec.

1000-yard run—Won by Starr (T); 2nd Quinlan (T); 3rd Lake (T); 4th Couhig (M). Time, 2 min. 24 sec.

50-yard hurdles—Won by McGrath (WPI); 2nd Avery (M); 3rd Menceow (M); 4th Silverman (M). Time, 7 sec.

High jump—Won by Kennett (M); 2nd Banan (WPI); 3rd McGrath (WP I); 4th Allen (M). Height, 5 ft. 6 3-4 in.

Broad jump—Won by McClowan (M); 2nd Arbenne (T); 3rd Foule (M); 4th Bratenas (T). Distance, 20 ft. 8 3-4 in.

Shot put—Won by Bratenas (T); 2nd Lapham (M); 3rd Koenig (M); 4th Chandler (WPI). Distance, 37 ft. 11 in.

Teams To Meet In Basketball

Interclass Contests to Take Place This Week

The class basketball teams will clash on Wednesday, March 18, to do or die for '36, '37, '38, or '39. The Freshman will play the Sophomores and Juniors the Seniors on Wednesday and the winners of these games will come together on Thursday to decide which class is champion.

The Freshmen and Sophomore teams play again on March 20th to find where the two points towards the Goat's head will go for this interclass contest.

The Intramural swimming meet will be held on March 26 and 27; the preliminaries being on the 26th and finals on the 27th. There will probably be plenty of close competition before any event is decided. Phi Gamma Delta was first last year with Theta Chi second and Phi Sigma Kappa third.

The Red Cross Life Saving will hold a swimming institute in the Fuller Pool during the week of March 16 to 21, when any student may obtain Life Saving certificates.

According to Frank Lloyd Wright, long the storm center of American architecture, America suffers from "too much so-called education."

Favored Conn. State Team Drops Game to Tech Basketball Team

Raslavsky and Munson Star as Tech Wins 48-30 in Fast Game Tallying 14 and 10 Points, Respectively

Swimming Team Takes M.I.T. On Closing Meet

Evans is Only Double Winner As Tech Wins 6 of The 9 Events

Worcester closed its swimming season with a 50 to 27 victory over M. I. T. last Wednesday night in the University Club pool.

Tech captured six of the nine events and made the competition interesting in the three they lost. Bob Evans was the only double winner of the meet, easily winning the 220 yard freestyle and then coming back to win the breaststroke over Vonnegut of M. I. T. in the closest race of the meet.

Worcester made clean sweeps in the 50 and 220 yard freestyle and 150 yard backstroke events. Gray and Jones, each swimming their last meet for Tech, took first and second respectively in the 50 yard dash. Evans and Smith placed first and second in the 220 yard freestyle while Hanson and Lane finished in that order in the backstroke. Dearborn took the dives while the relay team composed of Jones, Hanson, Evans and Gray won the final event for Tech. Dodge of M. I. T. took the hundred from Capt. Harry Gray in the fast time of 57 4-5.

The summary:
50-yard free style—Won by Gray (W); Jones (W) 2nd; Patterson (M. I. T.) 3rd. Time, 25 1-10 sec.

100-yard free style—Won by Dodge (M. I. T.); Gray (W) 2nd; Hamilton (M. I. T.) 3rd. Time, 57 8-10 sec.

220-yard free style—Won by Evans (W); Smith (W) 2nd; Gardner (M. I. T.) 3rd. Time, 2 min. 49 sec.

440-yard free style—Won by Small (M. I. T.); Smith (W) 2nd; Wiley (W) 3rd. Time, 6 min. 32 sec.

150-yard back stroke—Won by Hanson (W); Lane (W) 2nd; Fischel (M. I. T.) 3rd. Time, 2 min. 6 8-10 sec.

200-yard breaststroke—Won by Evans (W); Vonnegut (M. I. T.) 2nd; Murphy (W) 3rd. Time, 2 min. 48 2-10 sec.

Dive—Won by Dearborn (W); Gardner (Conanued on Page 4, Col. 3)

Tech Takes a Decisive Revenge For 1935 Setback as State Tactics Fail

Last Wednesday night, playing at Storrs, Connecticut, Worcester Tech's basketball team defeated a favored Connecticut State five 48-30, avenging a 46-30 setback suffered at the hands of the Nutmeggers last year. Led by our high scoring freshman, Al Raslavsky, who tallied fourteen points, and the smooth playing of Dick Munson who, displaying his early season form, scored ten points, the Tech team set a pace much too fast for the Connecticut five.

In the first few minutes of play, the score was tied four times indicating a close battle, but Tech forged ahead to lead 27-21 at half time. Jenkins playing his usual fine game scored six points before he was removed on four fouls just before the mid-game whistle.

Coach Christian tried several combinations in an effort to pierce Tech's close defense, but without avail. Greasly, Connecticut State guard led their scoring with a total of ten points. Loeffler, star forward, followed closely with eight.

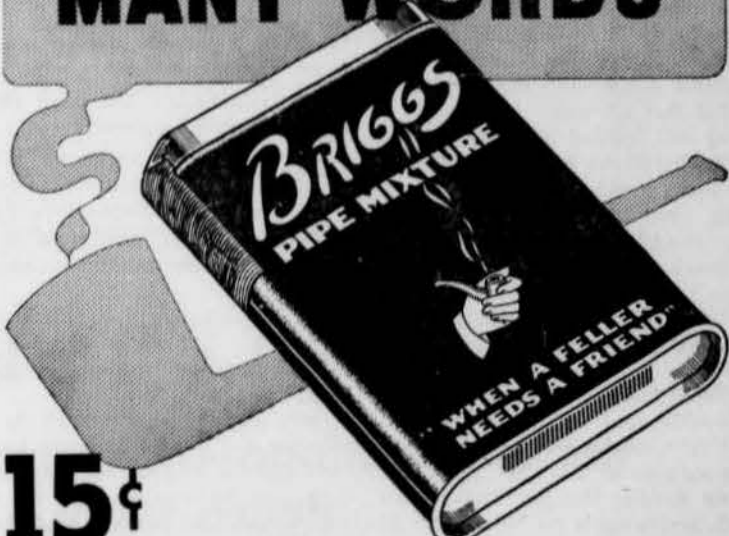
The Staters started the scoring with Loeffler tossing the first twin counter. Munson immediately tied the score with one of his spectacular one hand shots. Loeffler, however, placed the Aggies ahead with a foul shot, but Jenkins sunk a long one and Raslavsky followed with another to advance the score 6-3 in Worcester's favor.

Hendrickson added a free try but Pringle and Read tallied one apiece to tie the score 7-7. Greasly advanced the Nutmeggers' lead but Jenkins dribbled in to tie the score once again. Kaplan advanced the Nutmeggers with a free shot but Grublevskas evened the count 10-10.

Raslavsky's two free shots advanced the lead 12-10 in favor of Tech, a lead which they steadily increased and never relinquished.

Co-Captain Norman Swenson was absent from the line up due to an injury. (Conanued on Page 4, Col. 3)

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HYPOCRISY
A Short Story

(Editors of engineering college newspapers rarely, if ever, dabble in short-story writing. Anyway they don't get a rejection slip when they publish themselves!)

"A kitchen?" you ask yourself, when you first see it, but all old New England kitchens are as huge as the Nichol's. It is like a modern kitchen and dining-room combined into one room.

This kitchen during the afternoon of a summer day, late in September, is the scene of a daily visit of two neighbors, both women, both wives—although Peter Wilton was now dead, both mothers, and both, we should say genuine gossips.

Peg Wilton, the visiting neighbor, had been there most of the afternoon, for her work takes little of her time, what with three strong boys, and then, too, she does get very lonesome, especially on days like this one.

Betty Nichols had been working hard all day, for she had only one child, a daughter, Ruth. She is a very meticulous woman, and every Wednesday she must do all the week's ironing.

She doesn't mind the work today though, for Joe and Ruth will be home soon. Joe is her husband, a typical product of thirty years spent in the outskirts of Tarryville, a small town near Hartford.

"He is a real factory man!" Peg is always being told. Joe didn't want to go to the factory over in Tarryville, because he and his father, and his father before him, had always tended their own farm.

Then, too, Ruth will be home from school soon. "Maybe she'll bring home somebody with her, because I love to watch her playing house."

"Seems kind of dreary, mysterious like, out, don't it?" volunteered Peg. "Oh, no, quite the other way. I thought it was quite bright."

Peg Wilton suggested, "This was just the kind of day Pete was brought to me, with no life in him."

"Don't talk that way," Betty complained.

Nevertheless, Pete had been brought home from the factory on a day like this once two years ago. He had been fatally hurt in the steel mill, and had been missed terribly these past two years in the little community of four hundred people, not class, for it is doubtful if the individual capital exceeded that amount.

Peg still wanted to torment Betty by talking about her Pete. "What in the world would you do, Betty, if anything ever happened to Joe? You only would have Ruth an' she wouldn't be much good to you for support, I mean."

"Don't Peg, I ain't interested in discussin' that right now," she stammered.

"You'd have to do somethin' about it, wouldn't you? Like I done?"

"You're alright, aren't you? I mean you manage to live right, don't you? When a thing like that happens . . . ouch, you've made me burn me!" She

(Continued Col. 2)

Semi-Monthly Tech Council Meeting Held

Conflict of Spring Recess With Athletic Schedules Discussed

The Tech Council held its semi-monthly meeting last Monday, March second, at 4:30 o'clock with President Leech presiding. The question of the time of the spring vacation was the main point of discussion. It was pointed out that it interferes with not only the varsity athletic schedule in baseball, but also that of the interfraternity baseball games.

Dana Woodward, Junior class president, will call a meeting of the "At Home Day" committee soon in order that plans for that day may be discussed with President Earle. The "At Home Day" this year, which will not be quite as elaborate as in past years, will be held on Saturday, May second.

For your private information: Sally Rand was a student at Columbia University (New York City). It is not known, however, whether she found any courses there suitable as preparation for her chosen career.

HYPOCRISY

(Continued from Col. 1)

rubbs her burnt arm, and continues, "I think we should be as our minister says—'spiritually equipped'—for death takes from us what we've of worldly things, and if there is to be a city on 't'other side, we can go there so long as we are rich spiritually, else we'll be finished at the start. Let death come with its great subtraction; let us be prepared to meet it, giving of ourselves to the limit in today's work and experiences, and in the living of this life building up for ourselves characters that shall be worthy of the great inheritance, that alone can be ours by surviving the shock of subtraction. Let us go forth, when called, believing and finding in the light of what we know."

Betty had made a long speech for her. Yet she had more to say, "It would be easy for a woman who believed this to bear." She filled her basket with the last piece of ironing she had to do this week. It was Joe's favorite shirt, the one he would wear tonight when she and Ruth would go with him to the cheap movies downtown at the "auditorium." That reminded Betty she ought to go up and bang John on the head and collect his pennies in order to go. John was Ruth's pig bank.

"Pretty, ain't it?" she asked Peggy, folding the shirt carefully.

"What's this?" asked Peggy, "Oh! a telegraph boy is coming up the path."

"Telegram, Mrs. Nichols. 'Spaid for,' whereupon the boy hurries off on his bicycle, not whistling like most messenger boys.

"Look!" shouted Betty, "It's from Tarryville. Who might that be?"

"Well, hurry an' read it," suggested Peggy.

Betty read the telegram, and like the oak tree you can see through the kitchen window dropping its leaves, she drops first the envelope, then the pale yellow half-folded paper, and falls heavily to the hard, cold oak floor.

Alarm Systems Explained To Student A.I.E.E.

Mr. J. M. L. Groby Lectures On Use of Fire and Theft Detectors

At the meeting of the Student Branch of the A. I. E. E. on Friday, February 28, Mr. J. M. L. Groby of the American District Telegraph Co. delivered a very interesting lecture explaining and illustrating different types of fire and burglar alarms. He explained the working of the fire alarm boxes which are in the dormitory along with other types.

During the lecture an excellent demonstration of the "Aero" alarm was given; the detector which is in the form of a rosette was held up against the ceiling by a pole, and an alcohol fire was started beneath it. Eight seconds after the fire was started a bell rang signifying that the fire was detected and that in service the alarm would have been given to the central office. The principle of operation depends upon air expansion. The device is extremely sensitive and may be set in operation by the warmth of the hand.

Mr. Groby also explained how bank vaults are protected by various means, and in this connection the record of the A. D. T. Company which is non-competitive is that no A. D. T. protected vault has ever been successfully burglarized since the company's founding in 1873. After the lecture the students examined the many pieces of apparatus having their questions answered by Mr. Groby and by Mr. Stafford of the Worcester office.

SWIMMING MEET

(Continued from Page 3, Col. 4)

ner (M. I. T.) 2nd; Main (M. I. T.) 3rd. 64.2 points.

300-yard medley relay—Won by M. I. T. (Dodge, Vonnegut, Main); Worcester (Lane, Murphy, Wiley) 2nd. Time, 3 min. 32 2-10 sec.

400-yard free style relay—Won by Worcester (Hanson, Gray, Evans, Jones); M. I. T. (Patterson, Smith, Main, Dodge) 2nd. Time 4 min. 14 6-10 sec.

CONN. GAME

(Continued from Page 3, Col. 5)

The summary:

WORCESTER TECH

Table with columns: Player, fg, fp, tp. Totals 20 8 48

CONNECTICUT STATE

Table with columns: Player, fg, fp, tp. Totals 10 10 30

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Tech Glee Club Sings With The State Teachers

Boyntonians Play for Dancing After the Concert in Framingham

The first of the two concerts by the combined musical clubs of W. P. I. and Framingham State Teachers College was held at Framingham, Friday evening, under the direction of Mr. Green and Mr. F. W. Archibald and was enthusiastically received by a large audience.

The concert was opened with three numbers sung by the W. P. I. Glee Club. These pieces were followed by a group entitled "A Child's Day" by the S. T. C. Glee Club. In this group the selection "Where Go the Boats" was especially interesting and well-done. The combined glee clubs then sang several numbers. The contrast between the three love songs of Brahms included among these was appreciated very much by the audience.

After intermission the State Teachers College String Orchestra of sixteen pieces played two well-executed selections. In the next group of five songs by the S. T. C. Glee Club the rendition of "The Sleigh" by Kountz was especially excellent. The W. P. I. Glee Club followed with three selections. The combined glee clubs concluded the program by singing three numbers, one of which was an Andalusian Christmas carol. The girls responded with their "Alma Mater" song as an encore. Refreshments were served after the concert and dancing was enjoyed with music furnished by the Boyntonians.

WHAT IS INDUSTRY

The following radio address by Mr. W. J. Cameron on December 15, 1935, is of particular interest. Mr. Cameron is the man who broadcasts on the Ford Sunday evening hour.

"Industry does not support people; people support industry." Many of you read that motto in the rotunda of the Ford Exhibit at the Century of Progress. Today it has a new significance because government officials are demanding that industry employ at once the 11,000,000 persons whom Washington says are unemployed, or take the consequences. If this demand is based on truth, certainly the motto is not; both cannot be correct.

"The general impression is that this nation earns its living in industry. The facts make quite a different picture. Of all the people who work for pay in this country, ten million are attached to agriculture. Another ten million are employed in public and personal service—teachers, lawyers, doctors, nurses, public officials, entertainers, cooks, waiters, hired housekeepers, and so forth. Wholesale and retail trade engages between eight and ten million more—among them two million sales clerks and four million in other clerical positions. Four million people earn their living in transportation and communication, and another four million in construction of buildings, streets and highways. A million

(Continued on Page 6, Col. 3)

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Dr. A. W. Ewell to Speak At Physics Colloquium

Subject: Physical Phenomena

There will be a Physics Colloquium held in the Physics lecture hall on March 10th, Tuesday. The speaker will be Dr. Arthur W. Ewell and he will treat as his subject, "Physical Phenomena at the Intersurfaces of Solids, Liquids, and Gases."

Dr. Ewell has been invited to present a paper at the Triennial International Congress of Refrigeration to be held at the Hague, next June. The subject of the paper is to be "Ozone in Cold Storage."

BOWLING RESULTS

Inter-mural bowling has been moving along rapidly during the past few weeks with Theta Chi leading, having won 13 and lost 3. Scott of Theta Chi leads the individual scoring with an average of 93.3 and a score of 128 for the highest single string.

A summary of the highest averages follows:

Table with columns: Name, Average. Lists bowling averages for various individuals.

Best single string—Scott 128
Best 3-string total—Scott 328
Best team single string—T. X. 387
Best team 3-string total—T. X. 1089

Table with columns: Team standing, Won, Lost. Lists team bowling records.

Skeptical Chymists To Hear Lane and Burdick

The monthly meeting of the Skeptical Chymists will take place March 10, at 7:45 P. M. The meeting will be in the Salisbury building and speakers will be Mr. Lane and Mr. Burdick. Motion pictures will be shown by Dr. Butler, and the meeting will be followed by refreshments.

Law students at Indiana University (Bloomington) were challenged by the medical students to one of those "donkey baseball" games which are so popular now. They refused the challenge on these grounds: "We would be at a disadvantage. The medics have more jackasses than we have."

PREXY'S CHAPEL TALK

(Continued from Page 1, Col. 1)

to make a correct but quick engineering reply to an administrator who could not wait for the engineer in them to think it through; the rule of the day now being to decide important questions promptly. To be too slow was a fault, but then a wrong answer is worse, and so the only way to learn how to be quick and correct is to follow through all college does give and in the spirit of Lent. In Philadelphia and in Newark the same thought seemed uppermost with our alumni.

Next morning I wandered down town and looked at the statue of John Paul Jones, who stands with his back towards the water and his face towards the public buildings of our capital, all of which through his conquests on the sea he helped win for all of us. A legend on the monument states, "In life, he protected our flag, in death it shall cover him." What would he have thought of what is known as the Oxford oath which, sad to relate, a few, very few happily, misguided students, but from not W. P. I., have taken? Of that flag Woodrow Wilson said, "Though silent it speaks to us—speaks to us of the past of the men and women who went before us and of the records they made upon it." It represents what our forefathers worked for, fought for, won and passed on to us that we can enjoy a fair land in security. It was Goethe who rightly said, "What you from your father's Lair inherited, earn it, in order to possess it." I have absolute confidence that the students of today—foolish oaths and utterances all forgotten—should the time ever come, will show that they are willing to work and fight and earn for their posterity in like manner as did our ancestors work and fight to make our nation.

Engineers, though the world calls graduates of our colleges of technology and wrongly speaks of them as one sided, we know that through our education we have entered into all fields of life. Only those whom no education could broaden, who neglect opportunities, become one sided technical men. The engineers have the great task in the world today. They possess the broad viewpoint of science, technology, and culture, required to enable them to fulfil those deeper functions of the engineers—as Dr. Durand puts it—for they as custodians of all our living resources must live up to their responsibilities and conserve the resources of the world.

They have done well in the human relations that create industry and give contented lives despite the criticisms of the machine age. There is every reason to believe that they will continue to create the technology that is absolutely essential in this world of today. Just one proof of this can be given in this short talk on our human side, and that one is this; machinery enables jobs to increase faster than the population, a fact attested to when we realize that between 1870 and 1930, while our population increased 218 per cent, the gainfully employed increased 291 per cent.

As engineering students we do recognize these responsibilities and do work to acquire the ability to meet them; glad that the Lenten season makes us pause and ask ourselves what we are individually doing to secure that broad education which is available for the taking and which our graduates and apparently the world of industry likewise believes too important to be neglected or even slighted in the least.

Living within ourselves is not good for either us or for the world. The cultivation of human society—being a good mixer as it were—through attending classes and social functions, hearing inspirational talks as at chapel or informative as at assemblies, seek character building as in athletics, fraternity life, art and music, which all are important in making men. Social relations

(Continued on Page 6, Col. 2)

John W. Higgins Gives Views On Art in Industry

President of the Worcester Pressed Steel Discusses Cultural Education

This is the first of a series of articles dealing with the views of important men in industry as regards the sort of men they employ.

This article is a result of an interview I had recently with Mr. John W. Higgins, '96, President of the Worcester Pressed Steel Company, where "executive and engineer, artist and artisan visualize their contributions to the onward march of industry. The skilled steel worker feels the thrill of his craft and the mass production machine operator sees the value of his own labor. Here is romance of tradition, creation and ambition.

I firmly believe that this is an example of the Utopia we dream about, but are never supposed to see realized. I was very much impressed by Mr. Higgins, as I always have been when in his company, by his demeanor as well as his views.

As he sat there munching on a sandwich in his beautiful office with a spacious adjoining directors' room, he told me in five minutes what he looked for in men he employs and I am stating them as he did to me in three terse sentences.

He must be qualified for the job. He must be happy in his work. He must have an aesthetic viewpoint in his work.

Mr. Higgins has written many articles and delivered many addresses concerning the topic, "Art in Industry," and I should like to close this article with quotations from some of these.

From an article in the "Industrial Education Magazine," March, 1935:

"Recognition of beauty and quality was one of the earliest manifestations differentiating man from beast, and even today human progress is jeopardized when machine operators ignore those first links. Every craftsman should exhibit his masterpiece in friendly surroundings, even though he starts with a soap-box in the corner of his shop, a sample-case in his office, or a pedestal in a Museum of Fine Arts. Some friend will recognize his demonstration of cultural advance, and stimulate the next step. Pride established, challenged, or pricked, inspires progress in production engineering, as well as in the other arts.

"The John Woodman Higgins Armory at the plant of the Worcester Pressed Steel Company at Worcester, Massachusetts, is a museum, library, and laboratory of pressed-steel products, from all places and all times, established with these purposes in view; to inspire steel-workers; to attract superior recruits; to stimulate Art in Industry; to extol steel craftsmanship; and to inform the public.

"Here the worker sees the value of his own labor in the finished construction, and recognizes his relation to the onward march of industry. He compares his product with masterpieces of the past—his tools, his wages, and his comforts with those of his predecessors in this, his chosen craft. He senses the fun in his job. He catches the romance of tradition, the call of the present, and a vision of the future."

From an address to the American Vocational Association, December 1935:

"'Standard of Living' is an index of the civilization or culture of a period, nation, community, or person. As man struggles upward for light and truth, he experiences this change called culture. We seek to learn what produces culture. This process is more significant to us just now than the product.

"Industrial arts courses can be enriched educationally by using the shop and drafting room as motivat-

ing centers. The possibilities offered here should not be longer neglected.' "Even those cultural and potential

educational institutions—the American museums of Fine Arts—Greek temple store houses of rare treasures, are dof-

ing their veils of seclusion and joining with their brothers, the universities, (Continued on Page 6, Col. 1)



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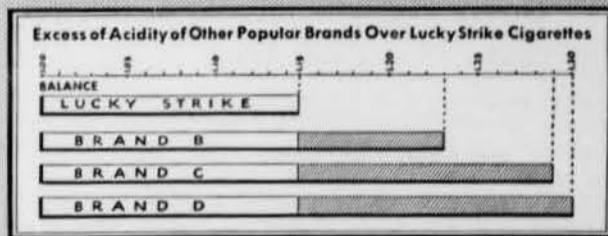
They include preliminary analyses of the tobacco selected; use of center leaves; the higher heat treatment of tobacco ("Toasting");

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INTERVIEW

(Continued from Page 5, Col. 5)

colleges, schools, science libraries, and libraries in liberal educational service to the new generation. Art and Industry can no longer be kept apart—no more than education, culture, and industry. The hours spent by students in museums undoubtedly register a higher rate in 'expanding the range and accuracy of one's perceptions of meanings,' than those spent in college halls."

There is a very good lesson to be gained from the above by many who have not thought before of industry closely allied to art and Mr. J. W. Higgins is a perfect example of one who does.

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PREXY'S CHAPEL TALK

(Continued from Page 5, Col. 1)

are not irrelevant in our engineering education. After all it is true that meetings are the stuff that outward existence is made of. Manners constitute one fine art that may be cultivated by all.

Times may have changed, but good manners and culture are more and more demanded of the engineer by industry in these very changing times. "Good manners, punctilious courtesy without sycophancy, all based on loyalty and consideration for others, remain the hallmark of the engineer and the gentleman."

May we all say with truth "Our feet stand right."

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WHAT IS INDUSTRY

(Continued from Page 4, Col. 4)

and a half engage in forestry, fishing and mining. These lines of business are not classified by the government as industry, although with other smaller groups they account for about 40 million of our normal 48 million jobs. And no official has suggested that these employ the alleged eleven million unemployed. That is left for industry proper, which at its highest peak, in its busiest time, never employed (in round numbers) more than 8,800,000 persons—the highest industrial employment in our history. These figures for industry are given in Table No 737 of the Statistical Abstract of the United

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States published in 1934 under authority of the Secretary of Commerce. In this report industry is comprised under the sixteen main branches of production which supply the nation's basic commodity requirements, ranging from food and wood and textile products, to the iron, steel and transportation equipment industries including the automobile.

"Industry alone has led in efforts to start the wheels of employment turning. In one year it has spent above its income more than the enormous emergency expenditures of the government itself. Its efforts have succeeded to a remarkable degree. This morning newspaper carries a Washington complaint that employment is not increasing as fast as production. Here is the same old error again—measuring the entire employment situation against one-sixth of the nation's work. Industrial employment has kept pace with production. If industry could give work to those 11,000,000 unemployed (if

there are that many) it would have done so long ago in its own interest without being asked. But these are in very small part the workers of industry. They belong mostly to the other groups that perform five-sixths of the nation's work. And all of these groups depend on full employment for their existence.

"The matter is too serious to permit misleading statements to pass, and we submit these facts in the interest of straight thinking and common sense."

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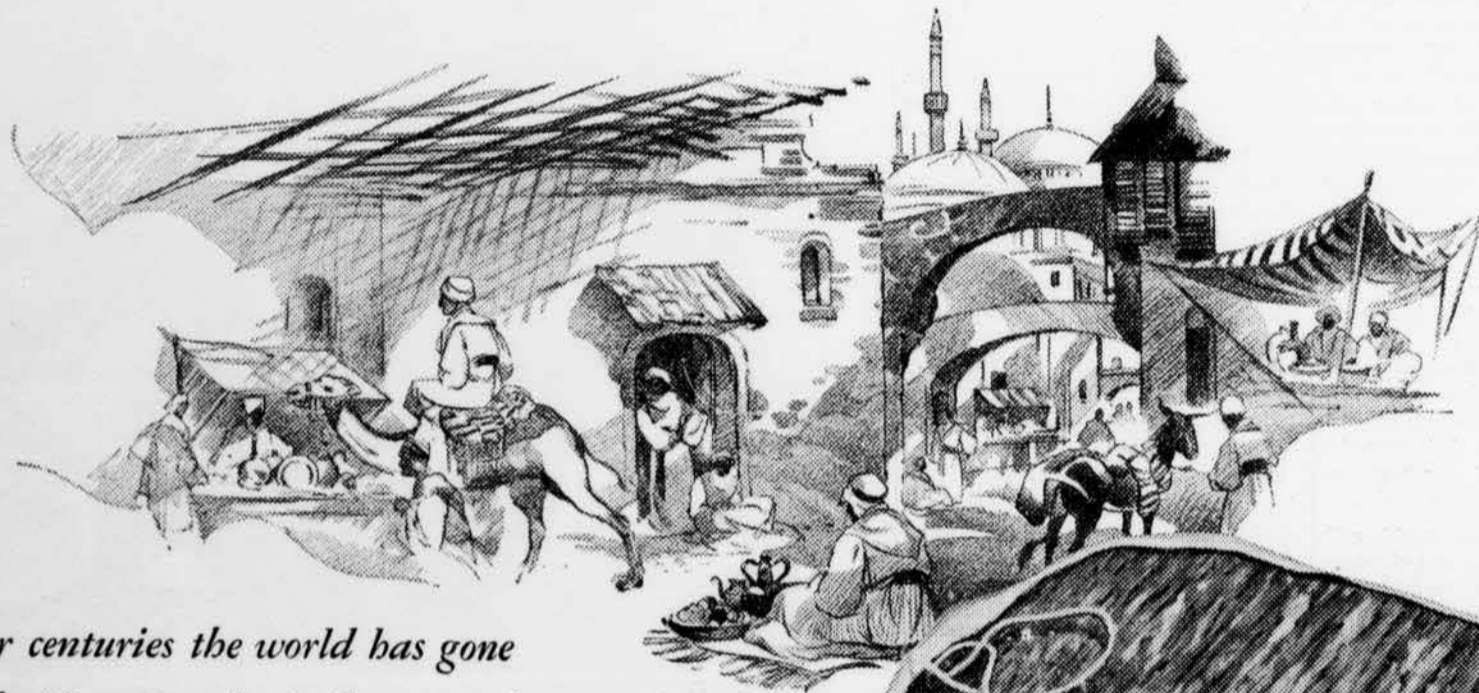
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