

# TECH NEWS



VOL. 8

WORCESTER, MASS., SEPTEMBER 26, 1916

NO. 2

## To Help Plan Study

C. F. Merriam to Aid Freshmen

The Free Hand Drawing Room in the Mechanical Engineering Building will be open as a study for Freshmen on Wednesday and Thursday evenings from 7 until 9 o'clock. This is in pursuance of a plan to assist students in arranging their study hours to the best advantage. The room will be in charge of Carroll F. Merriam, instructor in Mechanical Engineering, who has cheerfully given his time to help the Freshmen in getting on. Many of them come here with ineffective habits of study and many of them then find it difficult to connect with the methods at the Institute. Any Freshman may bring his work in any course to the Free Hand Drawing Room on the evenings mentioned. While this is not a project for supplying a special tutor, nevertheless Mr. Merriam will be glad to assist students in overcoming difficulties for themselves.

The first meeting will be on Wednesday, September 27th at 7 o'clock. The evenings of the week can be changed to suit the needs of the Freshmen. It is hoped that every student who has difficulty in connecting up with the Institute plan of work will avail himself of this opportunity.

### BLANKET TAX SUCCESS

Four Hundred and One Signed Statements Already In

The blanket tax as a method of financial support for Tech activities has proven its worth. The student body took to the idea immensely and the results are very gratifying. Of the 511 men registered at the Institute, 401 have already turned in signed statements, and it is expected that the final amount will be considerably greater.

This means that every branch of athletics will receive more than ever before as its share, while the Tech News will receive such a boost that it will soon be on a firm business foundation.

To insure uniformity in the handling of the money, a system of accounting is being installed to which each manager shall conform.

### FRESHMEN VS. SOPHOMORES FRIDAY

Varsity Squad Out Yesterday

As it is now planned, the annual Freshman-Sophomore football game will be played Friday afternoon of this week instead of on Saturday, the reason for the change being that Coach Blake hopes to have a number of the football squad at the Holy Cross-Princeton game on Saturday.

The contest Friday gives promise of a battle royal, the Freshmen have already been out for several days and some mighty

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## Award of Scholarships

1916-17

State, County and Institute scholarships have been awarded to approximately one hundred and fifty students. The Brown Scholarships as well as the State and County are half scholarships with a value of \$75.

### Worcester County

Aldrich, H. R.	Luce, F. N.
Bellows, C. A.	Lyon, W. R.
Bloss, E. K.	Matte, P. J.
Bronson, D. N.	McCaffrey, G. E.
Caldwell, G. W.	Miriek, P. C.
Carlson, A. G.	O'Connor, P. J.
Carpenter, R. H.	Olson, R. L.
Cassavant, F. E.	Padgett, J. E.
Chace, M. D.	Peterson, R. A.
Converse, L. S.	Quimby, H. B.
Cutler, M. H.	Rich, G. R.
Davis, H. S.	Richardson, M. W.
Durkee, L.	Russell, K. C.
Ewing, T. H.	Schmidt, I. G.
Fay, C. E.	Soulliere, E. F.
Forsdale, O. H.	Sprague, F. L.
Freeland, R. H.	Stenberg, T. R.
Gleason, H. H.	Thompson, E., Jr.
Green, A. G., Jr.	Thompson, S. H.
Holmstrom, A. B.	Vepsala, A.
Hubbard, C. T.	Walker, E. F.
Johnson, H. P. J.	Welch, A. H.
Jones, E. W.	Williams, R. A.
King, E. F.	

(Continued on page 3)

### MUSICAL CLUBS' PROSPECTS

Banner Year Planned

Towards the end of this week a call for tryouts for the Glee Club, Orchestra, and Mandolin Club will be heard around the Hill. As usual, graduation and the Faculty have left some gaps in the membership of the Clubs which must be filled before rehearsing for the concert season commences. The Glee Club will be completely reorganized this year and there will be an excellent opportunity to make a position in it. There will be a demand especially for first tenors and basses. Every man who possesses any ability as a singer should come out for the Glee Club. The Orchestra has lost a great many of its members and must be filled up to its full quota. There is need of several violinists to replace those who left last year; in addition, a cellist and a cornetist are required. Whatever instrument you play, come out and try for the Orchestra for there is always room, if you make good in the tryout. The Mandolin Club, perhaps, is the most in need of new members. There will be a chance for every man on the Hill who plays a mandolin, banjo, or guitar to play in the Club for it is desired to make its membership as large as possible. In addition to musical ability the Clubs require talent in other lines. If there is any man at Tech who has some ability as a reader, story teller, or monologist, or who has

(Continued on Page 3)

## Freshman Reception

The keynote which was struck at the annual Y. M. C. A. reception last Saturday night was the new era which the opening of the new gymnasium has brought to Tech. The new spirit which has pervaded the hill since the opening of the new field received further impetus at the hands of every speaker.

Shortly after eight o'clock, W. G. Hall, '02, who presided, called the meeting to order and introduced President Hollis. Prexie extended the welcome of the school to the incoming class. He spoke of the character of the studies and asserted that while doubtless the courses were hard they were nevertheless within the reach of any serious and conscientious student. He told the new men that they would find their professors not only ready but willing to help them with their work; not to do their work for them, but to show them how to do their work. He then described the new scheme which was to be tried for the first time this year.

Professor Butterfield was the next speaker. He told of the advantages offered by the new gymnasium and field, and said he hoped that every man in the school would use them. He mentioned the sacrifices of the Alumni in providing the field and gym and also spoke of the tennis courts which have just been opened, stating that if the demand were great enough, four more would be added. He then went on to the different lines of Tech activities and introduced Captain Jack Wheeler of the baseball team. Wheeler issued a call for Freshmen for the team, speaking of the advantages of fall practice under Coach Brough.

Cliff Kennedy, the manager of the musical clubs, spoke of the work of the Association, describing the trips taken and the general opportunities for good times offered by this form of Tech activity.

Phil Pray, track manager, outlined the work of his department, mentioning the cross-countries, which are to begin soon, and the fall schedule of the varsity cross-country team.

Bob Cushman, editor-in-chief of the Tech News, described the different divisions of work on the News, editorial and managerial. The purpose and opportunities of the paper were briefly described.

Mr. Hall then introduced Charles G. Washburn, the President of the Board of Trustees. As always, Mr. Washburn spoke very interestingly. He told of the position of the Board of Trustees and their relation to the Institute. He told many characteristic stories but at the same time emphasized the importance of honest, serious endeavor. He spoke of the duties of a man toward his family, toward his community, toward the state, and toward the nation. He spoke of the need of preparedness, mental, moral and physical.

After speaking there were songs and cheers, closing with Alma Mater.

## Cross Countries Planned

Many Already Training

With school just opened, many are already to be seen jogging over the road in preparation for the Fall track season. Fall track is a custom at Tech which has grown out of the natural inter-class rivalry and has furnished many an hour of the keenest of sport. With inter-class and varsity cross-countries, a fall track meet and later the inter-class relays, any man with track aspirations should not lack opportunity and incentive to get busy.

Manager Pray announces that the first of the annual contests will be held October 2, over the Newton Square course, leaving the Field, up Institute to Haviland, up Highland to the square, back Highland to West, and finish on the track. The second will be a little longer and stiffer, taking the men around Newton Hill while the third will be the five-mile grind to Coes Square and return.

Last year the Juniors, headed by Francis, cleaned up everything in sight for the third time, and the same class is out to repeat. As this is one of the first chances the Freshmen have had of showing themselves, full advantage should be taken. Moreover as one of the first inter-class activities of the year the Freshmen should take interest enough to try to raise the esteem of the under-graduate body for their class and school spirit. Remember that it is from among these men, too, that the team to represent the school will be chosen.

The varsity schedule as it stands at present includes two races, one at home and one away. The first is against Brown, the race to finish between the halves of the Stevens game, October 21. The second is against the M. A. C. delegation at Amherst, the same day as the W. P. I.—M. A. C. game, October 28. Last year Tech lost to both these teams by close margins and this year the runners from Providence and Amherst will be out to repeat so it is up to us to get busy. As to whether Tech will send a team to the New England Intercollegiate or not, it is impossible to state at present, much depending on the showing made in the earlier contests.

The Fall Track Meet which has met with splendid success in the past, will be continued this year. Each year has seen a wealth of new material shown up at these contests and this year with track work a part of the physical directors' program, the work of the squad should show a marked improvement over that of past years.

### HANDBOOKS

During the last few days the Y. M. C. A. has distributed 630 Handbooks free of charge. Few Tech men realize the amount of unselfish work necessary to procure the advertising for the "Bibles." C. S. Darling and his assistants have turned out the best work ever.

## TECH NEWS

Published every Tuesday of the School Year by

The Tech News Association of Worcester Polytechnic Institute

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Subscription per year \$2.00  
Single Copies .07

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The TECH NEWS welcomes communications but does not hold itself responsible for the opinions therein expressed.

All material should be in before Thursday noon at the latest in order to have it appear in the week's issue.

Entered as second-class matter, September 21, 1910, at the postoffice at Worcester, Mass., under the Act of March 3d, 1879.

All communications should be addressed to TECH NEWS, Worcester Polytechnic Institute

### THE DAVIS PRESS

SEPTEMBER 26, 1916

## BOOST TECH

### Editorials

While there are many opportunities open to individual men to serve Tech, there is one which presents itself as an admirable means by which the Freshman class can as a whole do its part. Tech needs a lusty cheering section. With a new field to play on, a new gymnasium to train in, and good teams to play, all the men need is plenty of encouragement from the student body. Here is a chance for the freshmen to get busy and organize a systematic cheering section. Choose your own cheer leaders, practice the old cheers, invent new ones and come over on Alumni Field ready for action. The Freshman-Sophomore game is your first opportunity. You who are not playing, lend a hand to those who are. Get together, stay together and cheer together.

This does not mean that the freshmen shall be the only ones to get in on the cheering end of the big games, but with a nucleus of some hundred and fifty men an admirable showing can be made. A live cheering section is an asset in several ways; it encourages the home team, it impresses the visiting players and is in itself a drawing card, for there are many people who will come to games, who, while they may not even know what the goal posts are for, like the excitement and infectious spirit of the cheering crowds.

### THE COMPLETE MAN

In the rush of a new year, do not let yourself be carried away by any one side of Tech life. Remember that the "complete man" has three distinct sides—mental, physical, spiritual.

Keep a discreet amount of time for studying—you'll need it. But also provide time for gym work, tennis, track, football, or some other healthy exercise. Without a healthy body, the best brains grow feeble and dull. And finally, do something for your classmates. Throw yourself into some unselfish service, and the spiritual side of your nature will take care of itself.

As everywhere, there are at Tech men who decry religion, neglect their bodies, or drift through their courses. Do not follow their lead. They will be cripples in the fight of Life. If you must have a model, choose one who meets the three-fold requirement—one who measures up as a "complete man."

### WORK STARTED ON BOARD TRACK Site to be Graded

Work has begun on the erection of the board track on a site in the immediate rear of the gymnasium. It is planned to grade a space of ground, and set up the board track on a permanent foundation. It is also planned to set up a basketball court within the oval for the use of the men this fall.

Setting up the track in this way will be a great aid not only to the managers each year, but will help to preserve the track, as continual setting up and taking down tended to destroy the life of the track.

### THINGS LIGHTNING DOES NOT DAMAGE

Lightning, that mysterious force generated in the powerhouse of nature, which often sets fire to haystacks, frame houses and barns, has never been known to seriously damage:

- Railroad trains or locomotives,
- Buildings with metallic grounded sides and roofs,
- Buildings which have frameworks composed wholly of metal,
- Grounded steel windmill towers,
- Steel battleships and cruisers,
- Business blocks and apartment houses in cities.

The explanation of this phenomena is simple, for most of these objects conduct electricity so well that electricity induced on the earth is drawn up through them and dispersed into the atmosphere, thus dissipating the charge of electricity before it becomes strong enough to produce a flash. If a lightning stroke to one of these objects does occur, the mass of metal entering into its composition will usually conduct the current safely to the ground.

## DANCING

### Miss Ruby H. Day's Class for Beginners opens Monday, Oct. 2 at Eight p. m.

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### ELECTRICITY ON THE "DEUTSCHLAND"

There was little mention made in the public press of the part that electricity played in making possible the plucky journey of the mercantile submarine "Deutschland," from her home port in Germany to Baltimore, a distance of 3800 miles, in 16 days. Yet without her storage batteries and propelling motors enabling her to navigate beneath the surface, and full equipment of electric winches, lights and wireless, naval engineers agree that the voyage would have been regarded as foolhardy, if not impossible.

During her voyage, most of which was made on the surface, the "Deutschland" was propelled by two crude-oil engines. In addition to propelling the craft on the surface these engines were connected to electric generators to keep the storage batteries in the bottom of the boat fully charged. Even while running on the surface the electric current was of importance in lighting the interior, forcing fresh air in the living quarters, and operating the wireless. Electric winches were also used for raising and lowering the anchor and loading cargo and supplies.

When danger threatened and strange ships were sighted the "Deutschland" was submerged, and it was then that the electrical machinery was depended upon entirely to propel her beneath the water out of the danger zone. On such occasions the oil engines were shut down and a supply of current from the storage batteries used to operate two electric motors attached to propellers. In this way, according to Captain Koenig, the submarine could travel a distance of 100 miles without rising to the surface to recharge the storage cells. On the voyage to America the submarine was submerged for a total distance of 90 miles, most of which was necessary in passing through the closely patrolled North Sea. Her captain stated that on one occasion the boat was submerged to the bottom, and (in submarine phraseology) "went to sleep" for several hours.

### CHANGE IN CURRICULUM

Sophomore Mechanics have a different course before them this year from that of previous years. English 3, Argumentation, is required in the first half of the year, Junior Steam being taken in the second semester. Surveying is no longer required of Mechanics, but may be taken as an elective, as may also German or Spanish.

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### SCHOLARSHIP AWARDS

(Continued from Page 1)

#### Brown

Bredenberg, A., Jr.	O'Neill, W. J.
Chapman, P. W.	Parsons, C. W.
Fenn, A. C., Jr.	Reavey, J. H.
Fitzmaurice, G. M.	Reed, C. B.
Flint, M. H.	Sessions, W. V.
Francis, A. W.	Sheldrick, H. W.
Garland, M. W.	Stearns, A. W.
Gove, G. H.	Stearns, W. I.
Greene, R. E.	Swallow, F. P.
Hartson, D. E.	Teaze, M. H.
Humphrey, H. C.	Wassall, A. D.
Kelley, H. C.	Wheeler, J. R.
Leventhal, L. F.	Zions, I.
Millard, A. M.	

#### State

Amsden, B. R.	Leland, R. C.
Anderson, A. E.	Lillibridge, H. W.
Atherton, S. G.	Lockey, H. H.
Barker, P. E.	Marsh, B. W.
Benz, F. D.	Mayo, H. A.
Black, H. S.	McConville, H. A.
Brackett, F. H.	McKenzie, W. L. G.
Butterworth, H. L.	Mirick, H. L.
Clarke, D. B.	Moelter, H. B.
Conlin, W. F.	Morin, R. L.
Darling, C. S.	Newell, H. H.
Englund, C. G.	Parks, W. W.
Freeman, H. S.	Pattillo, D. K.
Gannon, G. H. P.	Pike, E. N.
Gifford, W. H.	Reid, H. J. E.
Goddard, M. C.	Robinson, A. E.
Griffin, S. P.	Robinson, G. E.
Hanin, M.	Root, E. H.
Harcus, W. C.	Sargent, H. C.
Harvey, O. W.	Sawyer, E. P.
Hefferman, R. W.	Schooner, A.
Hirst, R. W.	Sears, A. C.
Holbrook, F. L.	Sharpe, P. G.
Holbrook, P. H.	Sibley, A. T.
Holmes, F. T.	Smith, R. H.
Howes, H. S.	Stange, R. C.
Jackson, H. W.	Tenney, R. F.
Jerz, W. J.	Thompson, H. W.
Jewett, L. R.	Thrasher, C. A.
Johnson, G. V.	Towle, N. L.
Kalagher, W. P.	Trott, R. P.
Karcher, E. H.	Wilkinson, W. D.
King, J. A.	Willard, C. A.
Kkapholz, M.	Winslow, E. H.
Knapp, P. R.	Wood, F. E.
Knowlton, N. P.	Woods, A. H.
Kranz, E. L.	Wood, L. D.
Kunzelman, F. J.	Woodward, A. L.

#### Miller

McCullough, G. H.  
Quimby, M. J.  
Carlisle, F. B.

#### Hoar

1911

### NEWS MEETING TONIGHT

The regular monthly meeting of the **TECH News Association** will be held at five o'clock tonight (Tuesday) in the News Building. The regular meeting of the editorial and business staff will be held directly afterwards. All candidates for staff positions should report to the editor-in-chief or business manager at that time for assignments to work. Names must be in at once to insure eligibility to staff positions next February.

### TECH STUDENT WINS CROSS FOR BRAVERY

Friends of **Raymond B. Penniman**, who was a civil engineering student at Worcester Polytechnic Institute, and is a former Providence resident, have learned that he has won a military cross as lieutenant in the Royal Canadian regiment for his valor in the trench fighting in France. He was decorated, according to the official version, "for repelling three hostile attacks under difficult circumstances."

### REGISTRATION

The actual opening of Tech came last Wednesday when the classes met for registration. The Freshmen and Sophomores met at nine-thirty and the Juniors and Seniors at ten o'clock. President Hollis welcomed the men to the Institute and Professors Butterfield and Carpenter spoke concerning the blanket tax. After Freshman registration the Sophomores carried out the usual exercises of taking seventy-five cents from each Freshman and cramming a misfit hat on his head.

The first day registration of Freshmen was a little higher than last year and the total for the entire school is very nearly the same, being three more.

Registration Day returns:

	1915	1916
Graduate Students	12	15
Seniors	86	99
Juniors	126	105
Sophomores	128	123
Freshmen	156	169
Total	508	511

The totals indicate a normal registration for this year. This number has already been somewhat increased by late arrivals.

### MUSICAL CLUBS PROSPECTUS

(Continued from Page 1)

some special skit of a vaudeville nature, the opportunity is wide open to him to make all the Clubs' trips.

With the reputation gained from last year's concerts the Clubs should have a busier and bigger year than ever. Concerts are now being negotiated for and the indications are that this season's itinerary will be well filled up. The gymnasium offers bright prospects for a series of entertainments and dances during the coming winter months and, if there is demand enough, the Clubs will undertake several informal concerts. The schedule of out-of-town trips will be as large as ever this year and will probably include several long trips. Once again, every man with musical ability of any sort is urged to watch for the notices and to be on hand for the tryouts.

### FRESHMEN VS. SOPHOMORES

(Continued from Page 1)

promising material is showing up. The Sophomores have their last year's team nearly intact which includes Carlson, Arnold, Morse in the backfield, who made such a favorable impression as Freshmen last year.

Added to the natural class rivalry, the fact that both Freshmen and Sophomores will be allowed to substitute football for gymnasium work assures a large number of candidates for both teams.

The first call for varsity practice went the rounds yesterday, and the results were extremely gratifying. The veterans of last year's team came out in force and the squad was augmented by the Freshman and Sophomore squads. The men were given only the lightest of work and this will probably continue for several days. Professor Carpenter has given every man a physical examination, and has pronounced them fit for the game.

The first game comes a week from Saturday when Norwich comes to Alumni Field. This gives the squad two weeks to round into shape and Coach Blake expects to try out a number of new men in that game.



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## "OUT OF SCHOOL WITH THE NOTABLES"

President I. N. Hollis

The President is very modest, but nevertheless admitted having carried on a great deal of work at the Institute this summer. Although he stayed at home, nevertheless his eloquence has carried far, the great German Empire having heard his voice, and disliked it. We, however, are glad to be back within the range of "Prexy's" excellent advice. It is quite in keeping with the President's wide contact with big men that he has recently been appointed a member of the commission to promote co-operation between the National Academy of Sciences and the Engineering Societies of the United States. This commission will study at length the resources of this country for scientific research and general engineering work.

Prof. L. L. Conant

A summer full of nothing but spending money and writing books! Surely "Conic's" literary efforts must be worth while. He hints vaguely at automobile breakdowns, and troubles with the horse, but as yet has not mentioned airships. But anyway, Professor Conant "and wife" spent a very pleasant summer at Choctua, New Hampshire.

Prof. Z. W. Coombs

A busy summer for "Coombsy," carrying on the admission work at the Institute. But he found time to drop in on us at Northfield in June, and to be at the Y. M. C. A. Setting-Up Conference at Rutland in September. Then, in July, he attended meetings of the National Education Association in New York, especially those considering the work in English. Again, in August, before the Wednesday Morning Club of Pittsfield, he delivered a lecture on "William Morris." All the year 'round, Professor Coombs is on the job.

Prof. H. B. Smith

Professor Smith spent most of the summer having a real vacation at his summer home on the Maine coast. But a man of his ability cannot get off the map entirely, so "H. B." was called upon by the Westinghouse Co. to give expert testimony in court cases.

Prof. A. W. French

During each summer, Professor French is an ardent farmer. When these really serious labors fall upon him, he "recreates" by giving some advice to the Worcester Building Department, or criticizing the plans for several reinforced-concrete

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structures. Then he checks up the specifications for a New Haven theater, takes a peek at the Quebec bridge project, and is ready for farming again. An ardent farmer, we repeat is Prof. A. W. French.

Prof. A. L. Smith

Prof. Smith has been busy working up statistics galore for the Institute. Otherwise, his time has been spent up in the White Mountains, at North Woodstock. Plenty of excitement there—fishing, chasing porcupines, and climbing mountains. Professor Smith claims that the porcupines were afraid of him. We consider that lucky—for him.

Prof. J. O. Phelon

Another ardent farmer up Sterling way! He has been really having a vacation, as the farm was neglected only for occasional auto trips to the shore or mountains.

Prof. A. W. Ewell

The Professor now has one more mouth to feed than when we parted with him in June. Also, as befits a family man with family estates dating from sixteen hundred and something, he has been building a summer home on said land in Rowley. As an engineering side line, he has built a second ozonizer for a Buffalo concern, with which variety of occupations Professor Ewell's summer stands complete.

Mr. J. A. Spaulding

Mr. Spaulding spent most of his time this summer at his home in Tewksbury, but took several weeks for a water trip down the coast, visiting at Washington, Newport News, Savannah, Jacksonville, and Augustine.

More confessions will appear in our next issue.

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