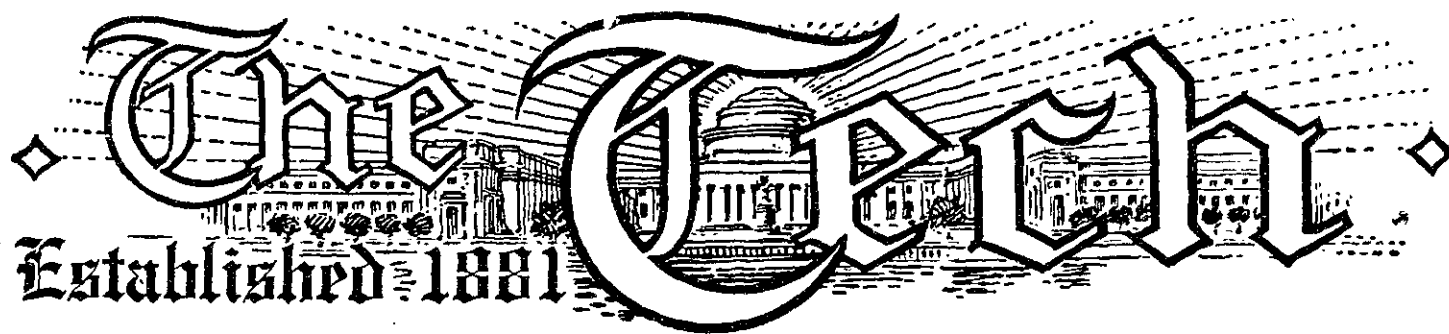


THE TECH Wishes Its Readers A Merry Christmas

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WHERE TO GO AROUND BOSTON IN VACATION

Points and Scenes of Interest
for Every Student are
Suggested

DIRECTORY AVAILABLE AT T. C. A.

The ten days now before us will provide opportunities for non-resident students, who must spend their vacation away from home and friends, to see a few of the many places and things around Boston which are of particular historical, educational, or perhaps, professional interest. The pleasures of the more common-place amusements will be exhausted in a few days, and it is then that the stranger in Boston, knowing nothing of the interesting possibilities, will find time hanging heavily on his hands. It is with a view to providing a few suggestions and hints as to what may be done, that THE TECH has prepared the following list of places of interest in and around Boston.

In the first place, Boston is rich in historical buildings, scenes, and monuments. Bunker Hill Monument, which commemorates the famous battle of that name in the Revolutionary War, is well worth seeing and the view from the top is magnificent. Bunker Hill can be reached by taking elevated cars to City Square. The famous Old State House on Washington Street, downtown, can be reached by a twenty-five minute walk from the location of the Institute. Souvenirs and relics of the stirring times of the Revolution are to be found here, as also at the Old South Meeting House, which is only a short distance from the Old State House on the same side of Washington Street.

A visit to the State House on Beacon Street is also well worth the visitor's time. Here one of the most interesting of the many sights is the exhibit of the storm-beaten, scarred, and smoky battle-flags carried by the Massachusetts regiments in the War of the Rebellion.

The house of one of America's most famous poets, Henry W. Longfellow, is situated in Cambridge, and through the courtesy of his daughter it is opened to visitors on Saturday afternoons. Here it was that Longfellow composed those beautiful poems which have made his name famous not only in his own country, but throughout the literary world.

The exhibit of "glass-flowers" at the Agassiz Museum at Harvard University is one which appeals to anyone who can appreciate delicate, skillful, and beautiful work. All kinds and descriptions of flowers are wonderfully worked out in glass and even the various parts and organs are shown in their true shapes and sizes. This is only one part of the very fine collections shown in the Agassiz Museum. A visit to this place will also give Technology students an opportunity to see something of our neighbor, Harvard College. Take a Harvard Square car or Cambridge Tunnel train and get off at the Harvard grounds. While out here a few minutes should be given to seeing the immense Harvard Stadium, which has been the scene of many famous football struggles.

In speaking of museums, Boston's Art Museum on Huntington Avenue should not be forgotten. The splendid collection of art and statuary has the power of holding one's attention for many hours.

For students who were born and have lived inland, a most valuable and instructive experience would be to spend a few hours in learning something of the shipping and commerce of the coast and also of the pride of Americans, our Navy. For a rapid, general view of the water-front, ride along Atlantic Avenue in an elevated train, cross the Harbor on one of the ferries, or walk along Atlantic Avenue, going out onto some of the docks and seeing the big steamers closer. If it has been the right kind of weather for a few days, a view of the ice-coated fishing schooners tugging restlessly at their hawsers at "T" Wharf, will give the inland "Landlubber" a

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NOTICE

Boys' High School, Brooklyn, New York, will hold its regular Alumni Reunion, Friday, December 23, at one, in the Auditorium. Good speaking, good music, football presentations, basketball game. Graduates are urged to come themselves and spread the news to others.

TECHNOLOGY BRIDGE PLANS ARE ACCEPTED

R. D. Andrews '77, of Andrews, Rantoul, and Jones, Is to be Architect

ALUMNI COUNCIL ACCEPT PLANS

The new Technology Bridge was one of the principal subjects discussed at the meeting of the Alumni Council, held last Monday evening in the Faculty Dining Room. Many plans were submitted, and the ones which were accepted were drawn up by R. D. Andrews '77, of Andrews, Rantoul, and Jones, 50 Congress street, Boston. The bridge is to include a central span which will be a memorial to the veterans of the Revolutionary War, Civil War, and World War. This bridge is to replace the present Harvard Bridge, which is dilapidated beyond repair.

Another important matter which was under discussion was the matter of a club for Technology alumni, to be somewhat similar to the Boston City Club. The present University Club is too expensive for the younger graduates, and it was suggested that a new University Club be organized which would erect a new building down town similar to the buildings of the University Clubs of Chicago or New York. Opposed to this plan was one to revive the old Technology Club. It was decided that it would not be possible to support as good a club with such a small membership as would be had if only Technology men were included in the membership. Therefore a unanimous vote was passed in favor of the new University Club.

At the beginning of the meeting all stood for a minute in memory of Professor Cross, who died last month.

The "salad orator" was Professor Sanborn C. Prescott. Professor Prescott is in charge of the new course in fisheries engineering, and has also been doing some research work in the matter of the diet of moths. He spoke on the question of whether moths need vitamins, and proved conclusively to the Alumni Council that moths can, and do live without vitamins. He also spoke on the fisheries industry, and showed the Council the proper way to make coffee.

PROMINENT MEMBER OF THE CLASS OF 1923 TO MARRY

Denton Massey, formerly of the Class of 1923 of the Institute, has made an announcement of his approaching marriage to Miss Esther Gerald, which will take place in New Haven on January 5, 1922. Miss Gerald is the daughter of Mrs. Thomas Wilber Gerald of New Haven, Conn. While at the Institute, Massey was very prominent in undergraduate activities, being a favorite in the social life here as well as a natural leader in matters requiring executive ability.

While here Massey played on the hockey team as guard and was on the Tug-o-War team of his class for two years. His connections with activities requiring executive ability were varied, having been chairman of the 1923 Class Committee, a director of Corporation XV, and a member of the Entertainment Committee of the All-Technology Smoker.

Massey was a member of the British Empire Club and during his Sophomore year was elected president. Being prominent socially he was associated with a great number of class activities and undergraduate affairs which will feel his loss this year. Before coming to the Institute he attended the University of Toronto and was a member of the Kappa Alpha fraternity there.

COL. CHRISTIAN TAKES AIR SERVICE EXAMINATION

It has just been brought to light, due to the inability of a student spectator to keep a good story to himself, that Colonel J. B. Christian of the Military Science Department recently took a portion of the examination required by the Aviation Service of the United States Army. It seems that the colonel submitted himself to the part of the examination which usually leaves the "victim" with very little in his stomach, in other words he allowed himself to be placed in the revolving chair.

Several students here at the Institute have taken this examination and undoubtedly appreciate the feeling that came over the colonel during the test. Due to an oversight the man in charge of the chair set it revolving with about twice the stipulated rate of speed. It is unknown whether or not the colonel ever was a member of a cavalry unit.

During the revolving the colonel was the cause of considerable amusement to the spectators. He seemed to think he was riding a horse as he kept continually kicking out with one of his feet and at the same time exclaiming "Whoa, gol darn you, whoa!" When the chair was finally brought to a standstill he arose and shook his head several times accompanied with several strange guttural sounds such as a man makes on coming up for air after a dive.

Up to this time no one had paid much attention to the brand new hat the colonel had with him. It seems that during the revolving he had the hat held closely under his arm and due to the fact that he was attempting to save himself from falling he had brought undue pressure to bear on his arms. The catastrophe resulted in the ruination of the colonel's hat.

A. D. SUTHERLAND, SWIMMING COACH, WEDS NEW YEAR'S DAY

Andover, Dec. 21.—On New Year's Day, in New York City, a war-time romance will be culminated when Miss Alice R. Mulvey of Westchester, N. Y., becomes the bride of Alexander D. Sutherland, a native of Brookline, and an ex-service man, who for the past nine years has served as trainer of all athletic teams at Phillips Academy here and for several seasons has also coached the swimming squad at M. I. T. Injured during the late war while in the naval service overseas, the groom-to-be was returned to this country and while under treatment at a hospital in New York first met his bride-to-be, who was a frequent visitor at the hospital in the interests of the wounded service men.

H. W. BIBBER '20, REPRESENTS THE INSTITUTE AT TORONTO

The Institute will be represented at the Toronto meeting of the American Association for the Advancement of Science by a delegation of the graduate students from Belgian Universities who are now at the Institute.

Dr. Paul Heymans of the University of Ghent, the leader of the delegation, is now engaged in the installation of a laboratory for photo-elastic research in the Physics Department. He will read one paper at the meeting dealing with the purely physical aspects, and another treating the engineering applications of photo-elastic methods.

Dr. George Calingaert of the University of Brussels will read a paper on the Mechanism of the Thermal Decomposition of Pentanes, and Mr. Charles Manneback, from the University of Louvain, a candidate for the doctor's degree in Electrical Engineering, will present a paper on the Return Current Along Submarine Cables.

H. W. Bibber '20, who, during 1920-1921, was Exchange Instructor to the Ecole Centrale des Arts et Manufactures of Paris from M. I. T., will act as secretary to the Belgian delegation at the meeting.

The Masquers of Amherst are staging the second of a series of one-act plays at Amherst. The Smith College Dramatic Association is co-operating with the Masquers, the female roles being taken by Smith girls.

VARSITY CLASHES WITH WORCESTER TONIGHT

Mid-State Quintet Is Slight Favorite Over Institute Team—Neither Has Met Worthy Opponent Yet

COMPLETE SCHEDULE GIVEN

ENGINEER'S MIND IS TOO NARROW

Technical Problems Are Only
A Small Part of the
Solution of Life

CO-OPERATION IS NEEDED

The following article which is reprinted from the Engineering News-Record of December 12, 1921, was written by Hale Sutherland, Associate Professor of Structural Engineering, after hearing a discussion on the six-year course in engineering before the Society for the Promotion of Engineering Education at New Haven last June by Prof. Burr—Editor.

That any particular engineer is a professional man is often a very debatable question. That engineering is a profession can hardly be questioned, although its qualified practitioners, fully entitled to professional status, are not yet sharply defined as a legal group by any general system of licensing as is the case with our doctors and lawyers. The clear-cut definition of the Century Dictionary may be used to establish this contention: A profession is a "vocation in which a professed knowledge of some department of science or learning is used by its practical application to the affairs of others, either in advising, guiding or teaching them or in serving their interests or welfare in the practice of an art founded on it." The word implies *** an application of such knowledge to uses for others as a vocation as distinguished from its pursuit for one's own purpose.

In arguing the case the tendency often has been to emphasize the technical qualifications of the engineer, the extent and depth of his specialized knowledge, and his expert judgment. But an essential element of professional work is the application of this expert knowledge to the use of others. The professional man deals always with clients to whom he owes a peculiar loyalty, yet he may not favor one client at the expense of another and in the largest sense his loyalty is to society, the sum of all possible clients. The humanitarian ideals have always bulked large in the thought of the learned professions and the masses have always turned to these groups for leadership even outside their limited fields of professional knowledge.

This standing apart of the professional man as bound by purpose to a larger end than his own individual advancement is of immense significance. The struggles of opposing interests and ideas in our civilization today are so tremendous, the results so uncertain and of necessity bound to be so far-reaching that the average man stands uncertain and aghast. He is sure of but one thing and that is that there must be less of conflict.

(Continued on Page 4.)

NEW HAVEN ALUMNI HEAR ADDRESS BY DEAN TALBOT

Last Tuesday night Dr. H. P. Talbot '91, acting Dean, spoke before the alumni of New Haven at a dinner at the Lawn Club of the New Haven County Association. The meeting was arranged by Arthur T. Hopkins '97, president of the Technology Clubs associated. The Dean's address was on general conditions at the Institute.

The varsity quintet meets Worcester on the latter's home floor tonight and a fast, hard played game is expected from both aggregations. The mid-state five has a big reputation due to its performances of last year when it won the New England championship over the best college teams in that section. The Beavers did not meet this snappy crowd last year, however, and are in no way awed by the "rep" of their rivals. Captain Cub Hubbard says his men are full of fight and ready to spoil any chances Worcester may be supposed to have for winning another championship this year.

The Engineers are looked upon as strong opponents by the mid-staters and considerable interest is being manifested over the coming contest. Worcester feels that in Technology she will find one of her most dangerous rivals for New England honors and is putting her best efforts into preparation for the game. Neither of the teams have met a worthy opponent as yet this season and as a result it is difficult to gauge their comparative strengths.

Worcester Strong in Practice

Worcester has shown up as a fast team in the recent practice periods. With four veterans of her championship team on hand and a record of years of good basketball to her credit, the mid-staters are ruling slight favorites. The Institute quintet is brim full of confidence that it can bring about an upset, and strength, although its one year of basketball before this season shows it to be a new competitor in the sport its record is worth notice. In its first year of Varsity basketball the Institute played closely contested games with such colleges as Harvard, Brown, and Drexel Institute, schools which had among the best teams of the year.

Coach Allen says that there has been a very noticeable improvement in the work of the squad during the past week. The shooting which was the worst feature of the M. C. O. game last Thursday has been much better in the last few practice workouts and he is encouraged as to the outcome of tonight's battle. When questioned as to who would win the coach refused to commit himself but he did say that the showing of the Varsity the first of this week made it appear that Technology has at least an even chance in spite of Worcester being made the favorite.

Davidson and Flanders, forwards; Coleman, center; Cook and Hubbard, guards; Substitutes: Blood, guard; Bretting, center.

Complete Basketball Schedule

This season's schedule for the Varsity quintet has finally been completed, and is as follows.

BASKETBALL SCHEDULE

Dec. 22—Worcester at Worcester.
Jan. 6—Clark U. at Clark.
Jan. 7—Mass. Aggies at Amherst.
Jan. 12—Tufts at M. I. T.
Jan. 14—Boston U. at M. I. T.
Jan. 17—Harvard at Cambridge.
Jan. 21—Open Date.
Jan. 26—Mass. Aggies at M. I. T.
Feb. 1—N. H. State at M. I. T.
Feb. 3—Amherst at M. I. T.
Feb. 10—Providence College at Providence.
Feb. 11—Conn. Aggies at Aggies.
Feb. 15—Williams at M. I. T.
Feb. 18—Brown at M. I. T.
Feb. 23—Boston U. at M. I. T.
Feb. 25—Amherst at Amherst.
Mar. 1—Open Date.
Mar. 3—Harvard at M. I. T.

The management is planning to run a series of dances in the gym after the home games as was the custom last year. The frosh quintet will usually have home games the same nights that the Varsity is scheduled to be here and the yearling's contests will be run off between the halves of the Varsity game.