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STRONG ST. JAMES TEAM IS HELD TO SCORE OF 7 TO 0

Great Defense of Sophomores Proves Difficult to Haverhill School

SOPHS WEAK IN OFFENSE

Game Saturday Indicates That Freshmen Will Have Hard Struggle Field Day

Uncovering one of the best defensive lines which has featured a Tech football team in years, the Sophomore gridiron warriors suceeded in holding the strong St. James first team to a single touchdown in the contest on St. James Field at Haverhill Saturday afternoon. For three whole periods the shifty and fast St. James backs Hanagan, Mazenkas, and Bresnahan crashed into the Engineer line and circled the ends for no gain. Spectators at the game stated that the Tech line put up one of the best defensive games seen on that field this year. As a contrast to the strength of the defense was the sad lack of offensive power, with Tech backs being stopped in their tracks for no gain time after time.

FIRST HALF

Twice in the first quarter the St. James outfit was stopped right in the shadow of the Tech goal, losing the ball on downs. In the second quarter, after three smashes at the line Mazenkas crashed through for the only touchdown of the game. This was the last time in the game that the St. Jimmies came within scoring distance and from then on the ball remained in mid-field practically all of the time.

Technology's scoring threats were made in the first part of the third quarter when Wofford broke through and blocked a punt, and in the middle of the last quarter, Benson, after making 10 yards through his own right tackle, had nearly an open field for a touchdown but in some manner he dropped the ball with St. James recovering.

St. James won the toss and chose to defend the north goal. Delva kicked off for St. James with the ball going to Tech's 26 yd. line where Seeley ran it back to his 33 yd. marker. Proctor on attempted criss-cross was stopped for no gain. Proctor was again nailed for no gain. Proctor then punted, but the kick was blocked by Driscoll with the ball rolling offside on Tech's 32 yd. line. Hanagan was thrown for a loss trying to go around right end. Hanagan was again stopped on an off-tackle smash. A forward Hanagan to Driscoll was grounded, leaving the ball on Tech's 34 yd. stripe. A second forward was intercepted by Wofford, giving the ball to the Engineers. Seeley was thrown for a 4 yd. loss on a try at the center of the line. Proctor gained 1 yd. through his right tackle but on the next play he was forced to kick with the ball going to St. James' 40 yd. line. Hanagan ran the kick back 30 yds. placing the oval on

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DR. DWIGHT TELLS OF NIAGARA FALLS PLAN

E. E. Society Hears Professor Give First Talk

In his first appearance as speaker outside the class room since coming to the Institute this Fall, Dr. H. B. Dwight gave a talk before the Electrical Engineering Society Friday night, October 16. The subject of his lecture was "Power Possibilities of the St. Lawrence and Niagara Rivers."

After an introduction concerning general power problems on these rivers, he explained in detail the plan, already receiving serious consideration, by which the receding tendency of Niagara Falls, which amounts to six feet per year, could be checked, and at the same time twice as much power could be developed, and all this to be done without impairing in the least the scenic value of the Falls. This part of the talk was illustrated by slides.

A second problem discussed by Dr. Dwight was that of transmitting the power from various power centers on the Niagara and St. Lawrence Rivers to large eastern cities.

"MORTAR AND BALL" CHAPTER FORMED

A chapter of the "Mortar and Ball," the national Coast Artillery Reserve officers' fraternity was formed by the Technology men at Fortress Monroe last summer. The society is patriotic in its purpose and social in its methods, with the prime object of binding together reserve officers in the Coast Artillery Corps throughout the United States. It is active, not only as an undergraduate society, but as a graduate one.

The various chapters are composed of picked men who have a serious interest in the Coast Artillery, who evince great promise as Reserve Artillery officers, and who, it is thought, will gain the greatest benefits through their association with fellow officers.

Plans for the coming year have been arranged and it is expected that members will be able to use the rifle range at Wakefield during the fall and spring months.

K. D. FENSTROM '10 STARTS NEW WORK

Assistant in Economics Dept. Has Been in Industry 24 Years

K. D. Fernstrom '10 is in charge of a new field started by the Economics Department which is chiefly the arranging of plant visits by the Seniors, in the course in Industrial Co-operation. Mr. Fernstrom also arranges conferences with the men and tries to advise them as to what work they should take after leaving the Institute. These conferences are for groups of from 8 to 10 men except the first which is a private talk with each man. Mr. Fernstrom is a graduate of the course in Naval Architecture and after graduating he taught physics at the Institute for two years. In 1912 he left the Institute to take a position as Assistant General Manager of the Fairbanks Morse Manufacturing Company. The plant employed about 18,000 men and his chief work was in studying the workings of the different departments and making reports.

In 1913 he took a position as Assistant Superintendent of the Columbia Plate Glass Company at Blairsville, Penn. His work was the reorganizing of the different departments, the installation of new equipment, and the working out of general efficiency plans. In 1915 he was made Superintendent which position he held for a year and at this time the plant was sold and he resigned to go to work for the Newport News Shipbuilding and Drydock Company.

At this plant he helped in the installation of the armor and ordnance of the battleship, Missippi. From 1917 till 1921 he was in the Plant Engineering Department and was in charge of the purchase and installation of new equipment. In 1921 he was made Transportation Chief, in charge of the handling and moving of the incoming and outgoing materials. In the fall of 1922 due to a suggestion of Mr. Fernstrom the company started the building and repairing of freight railroad cars and he was placed in charge of this new field. In 1923 the new work was completely started and he devoted all his time to car building.

During the two years from 1923 to 1925 that he was in charge of this department over 15,000 cars were made for the various railroads around New England and were for all classifications of service. In June 1925 he resigned as head of the Freight Car Department, and spent the summer resting at his home in Maine prior to taking up his duties at the Institute this fall.

NEW SPACE PROVIDED FOR PARKING AUTOS

Superintendent of Buildings Smith has reserved parking space in the rear of building 10 in an endeavor to discourage the parking of cars about the Institute buildings. This space is marked by yellow posts and is easily accessible to all parts of the Institute.

Superintendent Smith expresses the desire that students who have cars will make use of this reserved space and thus co-operate with him in relieving the present congestion on the road-ways surrounding the buildings.

NEW DORM UNITS MAY BE ERECTED IN NEAR FUTURE

President Stratton Thinks It Possible That Work Will Start Next Spring

SPEAKS FOR NEW DORMS

It was stated by President S. W. Stratton last Saturday that he has high hopes the Institute will be able to break ground for at least one new dormitory unit during the coming spring Although no definite plans have been made, the Institute expects to be able to announce progress in the expansion of dormitory facilities soon.

Should a new dormitory be added, it is almost certain that it will adjoin the Class of 1893 dormitory in the rear of Walker Memorial. Both ends of '93 were rough-finished with "Gunite," anticipating further building operations.

Final plans for the "New Technology," adopted ten years ago, called for the erection of the present group beside the President's House and for another group extending along the west side of Ames Street from Charles River Road to the Institute property on the north. This latter group, of which '93 is a unit, will form the east wing of a Technology student community, built around Walker Memorial.

At the meeting of the Corporation last week President Stratton emphasized the need of new housing facilities for the students, and as a result, the Corporation is seriously considering the problem. At present the dormitories are able to accommodate only a very small fraction of the 2800 students at Technology, and as a consequence, many men cannot secure entrance until two or three years after they have submitted an application. The '93 dorms, opened in the summer of 1924 and accommodating 80 men, are the last of the dormitory units to be erected, but have scarcely relieved any of the great demand of the students for rooms in the dormitories.

MOVIE ON GAS SHOWN BY CHEM DEPARTMENT

The second movie in the series given by the Organic Division of the Department of Chemistry was shown Friday. This picture, which was filmed by the U. S. Bureau of Mines, told the story of natural gas. Mr. E. M. Huntress, who has arranged the series, made a few introductory remarks before the presentation, explaining the connection between the movie and the organic chemistry studied at the Institute. A feature of this picture, as in the one last week, was the animated cartoons showing the process in drilling, pumping, and distributing.

Next Friday the picture shown will be entitled "The Story of Gasoline." This and the other pictures to follow during the year will be shown in room 10-250 at 4 p. m. Mr. Huntress is arranging for the showing of many pictures which, while of especial interest to those taking organic chemistry, are not of a specialized nature and it is believed would prove of interest to all men at the Institute. There are to be pictures of the textile industry, on the safeguards of handling and storage of gasoline, and on the manufacture of another explosive, dynamite.

R. H. Turner '25 Engaged To Miss Frances Taber

The engagement of Miss Frances Taber, daughter of Mr. and Mrs. A. D. Taber, South Dartmouth, to Roland Holcomb Turner '25, son of Mr. and Mrs. William Turner of New Bedford, was announced at a tea and bridge given a short time ago.

Mr. Turner was graduated from course XV. He entered the Institute in his freshman year and during all four years was connected with the gym team, finally becoming captain in his Senior year. He was also an active member of the Corporation XV. He is shortly to be transferrsd from the Hartford office of the Aetna Life Insurance Company to Albany, where he will be Chief Underwriter.

Miss Taber is a graduate of the Whitney School of Dramatic Arts, Boston, and is a member of the trio which filled many entertainment engagements last season on a tour to the Pacific Coast under the program title of "The Sunshne Girls." Miss Taber expects to continue with the trio this season, tourng the south.

Student Injured in Chem Lab Explosion

J. T. Biehle '26, a student in course X, received bad burns about the head and eyes last Friday afternoon while working in the laboratory of the Organic division of the Department of Chemistry. He had been using metallic sodium in an experiment and threw a piece of it into the sink. The sodium exploded, flying up into his face, burning both eys and setting fire to his hair.

First aid was rendered by the Medical department and he was then rushed in the Technology delivery automobile to Dr. David Heffernan, a Boston eye specialist. Dr. Heffernan found both eyes and the forehead burned but was hopeful of a rapid recovery. The Department of Chemistry wishes to emphasize strongly the fact that the accident was entirely due to carelessness on the part of the student, as there is a laboratory rule forbidding the throwing of metallic sodium into the sink as well as a rule that goggles shall be worn in all experiments with this material. Biehle did not have goggles on at the time of the explosion.

INSPECT VARIOUS SEWAGE SYSTEMS

Sanitary Engineers See Plants In Framingham and In Worcester

Last Thursday graduate students in Sanitary Engineering made their first inspection trip of the year under the direction of Professor Tyler '10. The party went by automobile, visiting sewage disposal plants at Framingham and Worcester.

At Framingham, the students found the sewage quite highly colored from dyes from the Dennison Manufacturing Company's plant. The sewage is treated satisfactorily by passing through Imhoff tanks, the effluence of which is further purified on sand beds known as intermittend sand filters. The sludge is then dried on sludge drying beds and hauled away by farmers to be used as fertilizer.

One of the largest Imhoff plants in this section of the country is the plant at Worcester, which the students also visited. It consists of Imhoff tanks, dosing chambers, trickling filters and secondary settling tanks, together with grit chambers and sludge drying beds, all of which the graduates saw in operation. The character of this sludge has materially changed since the construction of the plant was started about three years ago, necessitating the application of large quantities of lime by certain manufacturing companies. This will introduce a new problem during the winter months since it is impossible to dry the sludge at the low winter temperatures, and the increased amount of sludge must be withdrawn every six weeks.

During the year about five more trips will be made by the Sanitary Engineer graduates, visiting industrial plants, water purification and municipal sewage treatment plants in the state.

COMPOSERS OF MUSIC AND LYRICS TO MEET

With the selection of the orchestra last week and the announcement of the meeting of music and lyric writers to be held on Wednesday, the plans for Tech Show are rapidly assuming form. After the winning book is selected, rehearsals will soon be in progress in preparation for the performance.

Members of the management will address the prospective music and lyric writers at the coming meeting. Several of the old men are expected to attend, and it is anticipated that a number of new men will be present. Much music is required for the show, since it is in the nature of a musical comedy, so that the management advises all men who are interested to come out.

At the preliminary meeting of candidates for the orchestra last Friday many candidates reported for practice. The regular orchestra rehearsals will begin immediately. Charles Young, who has been director of the Tech Show orchestras for the last few years, is again in charge.

HAMMOND, FAMOUS MINING ENGINEER, TALKS TO SENIORS

First Aldred Series Lecture Is Well Attended by Seniors And Graduates

HE LAUDS ENGINEERING

Says Graduate of Today Has More Opportunity Than Ever Before

"Have pride in your profession" was the opening charge of John Hays Hammond in addressing the Seniors, Graduates, and Faculty at the first Aldred Lecture of the year last Friday in 10-250. Mr. Hammond believes that the engineering training of today does not give enough attention to cultural subjects which are much needed by the average engineer who is lacking in these lines.

That the graduate of today and tomorrow has more opportunities than ever before, the lecturer can see from his vantage point of world affairs. "The engineering profession is still in its infancy," said Mr. Hammond, "and the avenues to profesional apportunity are more numerous than ever before. No one can assume that perfection is anywhere near at hand. Ideas as they progress breed other ideas and so on in an endless chain."

"There are two classes of engineers today which are controlling affairs and there is room for many more. The first class is that of the broad general training in engineering supplemented by an administrative business training which directs the work of experts and handles the financial end. The second class is that of the technical expert who has specialized in one particular branch of science and is better equipped to handle his one end than anyone else.

"The development of the backward countries such as Africa is the best field for future work and it is there that the young engineer will find the most opportunity to make a name for himself. We are living in an age of wasted opportunities, and it is the function of the engineer to so develop unworked areas that people may more efficiently exploit the enormous amounts of, as yet, untouched resources."

Mr. Hammond is an ardent promoter of his profession and has the highest regard for it. "Engineering is the vanguard of civilization," he believes, and is the prime factor in this "people utilizing era." The engineer is the agency of this era, and gives people comforts and luxuries who before eked out but an existence. "For the young man who by nature has courage, resourcefulness, imagination, and judgement, there is no more inspiring profession than the engineer's" he declared. Had diplomacy shown

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MATH CLUB HEARS FRANKLIN LECTURE

Professor W. S. Franklin of the Physics Department, was the speaker at a meeting of the Math Club held last Friday, in the west lounge of Walker, and spoke on the subject, "Should Scientific Education Be Ameliorated." Professor Franklin stated that hard study was necessary for a man to learn scientific subjects, and that a man's education would lose its value if the program were made easier.

In a short address Professor Norbert Weiner stated that the purpose of the club is to present mathematical subjects from an informal and popular angle. He stated that this would be accomplished by addresses given at intervals of about two weeks throughout the year. The dates of these addresses will be arranged to meet the conveneince of the members, and they will constitute the only meeting of the club.

CALENDAR

Monday, October 19

5:00—Glee Club rehearsal, in room 10-250.

Tuesday, October 20

5:00—Banjo Club rehearsal in room 2-190.
6:00—Dinner meeting, Square and Compass Club, North Hall, Walker.

Wednesday, October 21

5:00—The Tectonians rehearsal, North Hall, Walker.
5:00—Mandolin Club rehearsal in room 2-190.

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THE WAGES OF ENGINEERING

NEWSPAPERS recently carried an item relating the action of a young civil engineer who gave up the job he held with the state highway commission to work with the gang he had been foreman of. He explained his action as being impelled by need of higher wages! Utlizing his training he was not worth the price of common labor; throwing aside his training he acquired a greater monetary value.

This paradoxical situation is but representative of a state of affairs in the engineering profession. The woefully low wages paid for engineering work has but recently been extensively noted. In particular, editorials in the Saturday Evening Post have deplored the cramping effects on enterprise caused by this unfair wage inequilibrium.

It is to be hoped that this growing realization of the sorry facts will tend to alleviate the situation. The young engineers comprising a part of what Arthur D. Little has aptly termed the Fifth Estate have in them much of the energy and material of progress. After going through a rigorous and expensive education it is a serious discouragement to them to face a period during which they can earn but a bare and meagre living. The maladjusted situation demands readjustment, but since the Fifth Estate never stoops to the crass methods of labor how can it achieve pay relatively comparable to that of labor?

THE GREAT AGREEMENT AT LOCARNO

A FEW days ago at Locarno representatives of several European nations signed a document that promises to change the history of the world, and go far toward bringing about the result hoped for as the culmination of the World War—that is, the outlawing of war.

The Treaty of Versailles was a monument to the stupidity of the Allied Statesmen. It was, in effect, a document whose essential purpose was to punish Germany and the great mass of peace-loving though perhaps misguided people because a few Germans—the Junkers, who controlled Germany in 1914—had borne a large part of the responsibility for the war. That it failed and, like the fabled monster came near to destroying its creators, should occasion no surprise. France especially, which took a large part in its framing, suffered from its effects.

It became apparent that a Germany kept in a crippled condition could neither pay indemnities nor form a market for the superfluous products of her late enemies. And so it was decided that German industry must be strengthened, and Germany herself returned to a prosperous condition. That is the purpose of the now-famous Dawes plan; whether it will succeed in its purpose a few years will tell.

Finally, having taken some of the burden from Germany, various statesmen decided to make a real attempt to lay the ghost of war forever. To what country is due the greater part of the credit is uncertain—the present conference was proposed by the German government.

The agreement is essentially this: the boundary disputes between Germany and Czechoslovakia and between Germany and Poland are to be submitted to arbitration. It is these disputes that have proved the stumbling block at previous conferences. Germany renounces all claims to Alsace-Lorraine, which has been a casus belli literally for centuries, and particularly for the past fifty years. A demilitarized zone has been set up on the Franco-German frontier, each country agreeing to keep all military out of the zone. That this is an effective way of preventing war is shown by the history of the peaceful relations of this country with Canada, the joint boundary being quite unfortified.

All future disputes between France and Germany will be arbitrated. Germany will apply for admission to the League, and the Allies on their part will seek to modify the Covenant so as to remove the conditions which Germany cannot accept—for instance, the famous Article X, for Germany, being demilitarized, cannot furnish troops to guarantee the territorial integrity of the other counties.

The keeping of these promises is guaranteed by England, which pledges protection to each against violation of the treaty by the other; and Italy has also promised her support.

That the result of the Locarno conference will immediately insure the world against future war, nobody believes. But that it is one of the biggest steps in that direction in a very long time is a safe conclusion.

—THE TECH BOOK LIST—

TIMELY ECONOMICS

THE PRESENT ECONOMIC REVOLUTION IN THE UNITED STATES, by Thomas Nixen Carver, Boston: Little, Brown and Co. $2.50.

That economics has something of dramatic and interesting import in its cold obtuse logic may be surprising to some. That an effective catalytic agent bringing together economic technicalities and the ideas of laymen is producible is also surprising. This book engenders just such surprises. In high relief it emphasizes the important and fascinatingly dynamic sides of the present economic scene with a conclusiveness that makes it uniquely valuable to anyone who is interested even remotely. The *Decalogue of Science* humanized and popularized biology. Carver has aimed at the same target for economics with a result at once readable and meaty.

A better title for the work would be the *Economic Evolution* in America for it is that which it describes. With optimistic gusto the truce between capital and labor is hymned. Labor's climb to capitalistic position and reasoning assurance, the decline and fall of Marxian fallacies, and the ideal of a balanced economic system are the featured ideas in the book and these are mixed with supplementary economic theory of value to the general reader. Carver sees in our economic society a common sense that is sublimating itself into something rich and strange. He sees laborers turning capitalists and capitalists turning laborers. He sees productivity eliminating poverty and bringing about equality under liberty. He seens an economic ideal in America that is working wonders in the sociological fabric of the country.

> "The kind of equality toward which we are progressing pretty rapidly in this country is equality among occupations, not equality of personal incomes within a given occupation. The wages of manual labor are high and are going higher, as between the manual trades and the "white collar" jobs of the mediocre sort there is practical equality now. . . . It will not be long until, all things considered, the manual trades will be about as prosperous as the learned professions."

In the above lies the real theme of the book. This reasoning is projected into the ideal of the "balanced economic system,'—the exposition of the economic condition of an equality of occupations, that is, that every esential industrial function is as adequately performed and paid as every other. If the economist can get this economic yeast working in the public intelligence they will do much to eliminate misunderstanding, radicalism, and crazy thinking.

Carver's book with its verve and optimism, its charity and soundness goes a long ways towards pointing out accurate paths of economic and sociological thought, in ridiculing the idioticacy of opposition between labor and capital, and instilling optimistic ideas in the public mind.

An edition of Balzacs' *Droll Stories* translated by Ernest Boyd and illustrated by Ralph Barton is being published by Boni and Liveright. The *Contes Drolatiques* is complete; hence an extremely valuable book.

INVENTED INVENTION

THE GREAT PANDOLFO, by William J. Locke, New York: Dodd Mead & Co. $2.00.

Here is a novel which should especially appeal to Technology men. It is the love story of Sir Victor Pandolfo, a great inventor and Paula Field, a beautiful widow.

Pandolfo, when the story opens has invented a new metal, an alloy, as near as can be gathered, of something with a new ore he has discovered in Brazil. He has also invented other things and earned a considerable fortune and a title.

Pandolfo is sprung from mediocre English-Italian parents, is self-educated, and has exceedingly flamboyant manners. When he falls in love with Paula Field, a cultured woman of aristocratic family, he impresses her with conflicting emotions. She is greatly affected by his energetic personality but his masterly ways of love-making are rather repelling. Getting little encouragement from Paula, he becomes tangled up with a woman of international ill-repute and marries her. His mines in Brazil peter out and all in all he is in rather an awkward situation. Locke has done very well in bringing the story to a satisfactory end.

Several passages of quasi-scientific discourse add zest to the book for an engineer. Granting the original premise of the marvelous ore, Locke never outsteps the bounds of reason as so many authors in his position would have done. The first of Newton's laws is correctly quoted at one point and at other places there are quite accurate scientific statements. Remarkable!

The Great Pandolfo is well written and, while it hardly seems to be of permanent literary caliber, is well worth while reading for amusement. Locke has many admirers and *The Great Pandolfo* is having considerable vogue. If one tries at all to "keep up" with current fiction he should read this novel.

NEW BOOKS

Books Received for Review

Firbank—"Vainglory."
Levey—"Matrix."
Richet—"Idiot Man."
Saltus—"Mary Magdalen."
Spence—"Atlantis in America."

Books Added to the Walker Library

Dunsany—"The King of Elfland's Daughter."
Farnol—"The Lornig Mystery."
Foster—"Passage to India."
Gibbs—"Soundings."
Hergesheimer—"Balisand."
Reymont—"The Peasants. (Spring, Vol. 3)
Stringer—"Power."
Woolf—"Mrs. Dalloway."
Woolcott—"The Story of Irving Berlin."

The first really complete and authoritative biography of Aaron Burr written by Samuel H. Wandel and Meade Minnigerode has recently been published by Putmans. It is a definitive biography that pictures Burr, not as a rascal but a man of grace, charm and intelligence.

THE OPEN FORUM

Interfraternity Matters

To the Editor:

I am amused to learn that there will be a meeting of the Interfraternity Conference at the Alpha Tau Omega House this Thursday evening. Could not something be accomplished, however, if each fraternity would send their house president as delegate? In this case the representatives would have authority enough to accomplish something aside from arranging very, very, important bowling tournaments. Being the most important subject at this time, the rushing situation is likely to receive but little attention. However . . . It would be wasted effort were the Conference to legislate upon some complicated system of rushing rules for next fall. Their application would be difficult and the possibility of an unanimous agreement upon such is practically out of the question. But surely a definite time limit before which rushing would be prohibitive is not too much to expect. I need not enumerate the reasons in favor of such a rushing rule, for they are obvious. Neither will I present concrete suggestions, as there will be weighty and capable minds to do so (are they so disposed) Thursday evening. I do feel, however, that no fraternity having the welfare of the Institute at heart should be unrepresented at this meeting, and that each delegate should come with at least a mild spirit of co-operation.

Signed, B. P. LAMBERT '26.

First the University of Oklahoma forbids cars and now it forbids dates. The only meetings between the men and the co-eds that are allowed are walks back and from some place to which each went separately for buisness reasons. Even then the two must live on the same street.

Foreign Student Gives Impression Of Schools Here

New Arrival From European College Disapproves Of Our System

It would be too long a task if I should refer here to the deep and complex impressions that enlivened me when last Fall I first arrived at the Institute, just coming from across. I will not therefore bore you with a story about my strange feeling of loneliness in a crowd of clasmates; about my astonishment and surprise—not necessarily pleasant—at everything appearing to me as new and different, from the language to the chairs in the class rooms, from the "collegiate suits" to the Walker Memorial Cafeteria system. I will try, instead, to bring out a few points which, I think, constitute the main difference between the systems and the life of European and American colleges.

A first thing, pertaining to school work, which strikes any European student at Technology, is the attendance system. I will not make of this subject a discussion of principles or a propaganda of methods, but just an exposition of facts and ideas, without trying to draw any conclusions about who is right.

At the Institute it seems as if the regularity of attendance had a great influence on the final grades. In European universities, on the contrary, —I am talking here of continental Europe as I am not well enough acquainted with English colleges—steady or irregular attendance makes very little, or no difference at all in the averaging of the marks. The idea for this is a very fundamental one. "What do students come to college for?" European professors ask themselves. "Do they come mainly to attend classes or to acquire a knowledge that they shall be able to use in their

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SOPHOMORES DROP CLOSE BATTLE

Holds Powerful St. James Team To Single Touchdown

(Continued from Page 1)

Tech's 30 yd. marker. On an end run Breshanan failed to gain. Mazenkas then uncorked one of the longest runs of the game carrying the ball to the 8 yd. line, a total of 22 yards. This gave St. James first down on the eight yard mark. Hanagan made 1 yd. through his right guard. Bresnahan hurled over his left tackle to add a yard. Mazenkas then fumbled on an off-tackle play but a St. James man recovered. Hanagan starting for a knife through tackle failed to find an opening so went around his interference on an attempt to round the end. He was tackled for no gain with Tech obtaining possession of the ball on downs. Proctor then punted to 32 yd. line where Hanagan received. Bresnahan then circled Tech's right end for 28 yards being forced offside on the 5 yard line. Here again St. James was stopped from getting a touchdown, this time not until the ball was within one foot of the goal line. Proctor punted out of danger to his own 28 yard stripe where the ball rolled offside. Hanagan, picking his holes nicely on a short end run went to the 17 yard line for a first down. Bresnahan swinging around right end netted 3 yards placing the ball on the 14 yard line. End of the quarter.

Second Quarter

On the first play Bresnahan smashed at right tackle but was stopped for no gain. A forward Dusseault to Driscoll was grounded. Another pass Dusseault to Mazenkas was knocked down by Wofford. Tech's ball on downs. Riley juggled the ball on a line plunge and lost 3 yards. Gray was stopped for no gain at center. Proctor then kicked to his own 2 yard line but the kick was partially blocked. Dusseault did not gain at left tackle. Mazenkas then tore through his left tackle for 12 yards and first down. Dusseault was stopped standing up for no gain. Mazenkas made a yard through the center of the line. Hanagan failed to gain. On the next play Mazenkas scored a touchdown thru left tackle, breaking away from his own interference. Hanagan kicked the goal for the extra point. Tech received the kickoff. Delva kicked to the 35 yard line where the punt was run back 3 yards. Benson for Proctor. Riley added a yard through tackle. Seeley failed to gain on another line plunge. Riley then dodged several tacklers on an end run making 3 yards before he was downed. On the next play Benson slipped while punting which made him hurry the kick and the ball went to St. James 39 yard line where Bresnahan received.

On the next play, a criss-cross, Bresnahan was injured but resumed play after time out was taken. Hanagan, running from a punt formation swung around right end for first down on Tech's 40 yard line. Duseault then cut into right guard for three yards. Burke for Connelly. Mazenkas lost a yard on an attempted end run. A forward Dusseault to Boner was grounded. Another pass Hanagan to Boner failed, Boner got his hands on the ball but dropped it on being tackled. Tech's ball on downs. After a forward Benson to White which netted 5 yards the half ended.

SECOND HALF

Dineen on the kickoff for St. James booted the ball about 12 yards and Bresnahan fell on it for a first down. Bresnahan then made 3 yards off his left tackle. A forward thrown by Bresnahan was intercepted by Wofford who ran it back 6 yards. Tech's ball on her own 38 yard line. Proctor tore off 4 yards through the center of the line. Riley added a yard off tackle. Seeley was nailed for no gain at left tackle. On the next play Proctor punted from his 43 yard stripe to St. James 30 yard line. Hanagan received the kick and he was downed in his tracks. Hanagan lost 4 yards on an attempted end run. He then punted to Tech's 39 yard line. Proctor made 2 yards at right tackle. Riley threw a forward which was spoiled by Bresnahan. Gray could not gain at center. Proctor then punted to St. James 35 yard line. Mazenkas made 4 yards at tackle. Hanagan chalked up 2 at right tackle. On the next play Hanagan was stopped for no gain. Hanagan then punted, but Wofford broke through and was on top of him smothering the kick with a Tech man recovering. A forward Riley to Wilson was knocked down by Bresnahan. Riley then went through tackle for 3 yards. An attempted pass by Proctor was knocked down as it left his hand. Proctor made a yard and St. James took the ball on downs on their own 20 yard line. Hanagan punted to Gray with the ball travelling to Tech's 40 yards line. Gray ran it back five yards. Riley then fumbled but recovered losing 4 yards on the play. Gray squeezed through the center of the line for a yard. Proctor then punted from his own 37 to St. James 39 yard line where Hanagan who caught the ball was downed in his tracks. Mazenkas made a yard at his own left tackle. Hanagan's forward to Dusseault grounded. Hanagan punted from his own 40 to Tech's 21 yard line where Gray ran the kick back 6 yards. Riley was then smothered for a 4 yard loss on an attempted swing around right end. Seeley was dropped for a 2 yard loss as the period ended. Benson replaced Proctor at full.

Fourth Quarter

An attempted forward by Benson was grounded. Benson then kicked from his own 23 yard line to the 40 yard stripe. Hanagan who received the kick was downed in his tracks, Hanagan made 2 yards at right tackle. A forward Hanagan to Bresnahan was grounded. Hanagan then kicked to Seeley. Another forward, Benosn to Wilson failed. Benson made 4 yards at right tackle. In the next play he was smothered at right guard for no gain. He then punted to Dinnen who ran the kick back to the 45 yard line. Mazenkas hit Tech's right tackle for 3 yards. Mazenkas then fumbled on an attempted forward and lost 9 yards. Hanagan kicked to Riley on the 25 yard line where he was dropped in his tracks. Benson made 3 yards at right tackle. Riley added 5 through the center of the line. Riley then fumbled but a Tech man recovered. On the next play Tech received a 5 yard penalty. Benson kicked from the 39 yard line to the 45 yard stripe. Hanagan made a yard at right tackle. Hanagan threw a pass which was intercepted by Benson. From a punt formation Benson made 10 off right tackle and fumbled just as he was tackled with Delva recovering for St. James. Mazenkas made 4 yards at Tech's left tackle. Hanagan punted from his own 44 yard line to Tech's 33 yard marker. Benson made a foot at right guard. Riley was tackled for a four yard loss on an attempted end run. A pretty forward Benson to White netted 14 yards. Two forwards

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CREW CANDIDATES SHOWING UP WELL IN EARLY SPINS

Many Eights Assembled For Pre-Season Tryouts On Charles

SCHEDULE NOT SETTLED

Activity toward a successful season on the water has gotten well under way at the boat house. The crews have filled up every available inch of space and there is no lack of energy on the part of the prospective as well as sure-fire candidates for the eights.

Three full Varsity crews are in harness at the present time. With this formidable array of oarsmen at his command, Coach Bill Haines will have his burden considerably lightened in his efforts toward building up a winning combination. There are four Frosh eights already asembled and the prospects of a Field Day victory are increasing with every day of practice. Only one Sophomore shell is in action at present and as the Sophomores who are Varsity candidates are ineligible for the November Classic, the chances for a '28 victory have not been enhanced.

Strength Still Unknown

An attractive, yet severe, schedule for the Spring session is the goal of Manager Bob Bigelow. The splendid showing made by the Varsity at Annapolis last year has secured them a repeat trip. This is the only guaranteed assignment at the present date, inasmuch as the other intended meets are but tentative affairs. Harvard and Cornell are sought as opponents in dual affairs. An effort is being made to bring the Columbia eight, defeated by the Varsity on the Harlem last year, to the Charles. As a fitting climax to the coming season, the big blue Yale crews are sought as opponents at the stamping grounds of the New Haven institution.

It is rather early in the year to prophesy as to the prospect for a successful year. Time has brought out noticeable improvements in the smoothness of the eights' work, but as yet there can be no accurate estimation made as to their real ability. The much-looked-for event on Field Day will at least serve to bring out the potentialities of the yearlings, upon whose shoulders will rest the burden of upholding Tech traditions on the water.

GRANITE STATERS TIE LOSS ON SOCCER TEAM

Beavers Handicapped With Only Ten Men Showing Up For Game

With but ten men in the lineup, the Beaver soccer team held the much touted New Hampshire eleven to a 3-2 score at Durham Saturday. Ten players were all that could be rounded up to make the trip and by holding the Granite Staters to such a low score these men gained a moral victory. New Hampshire had previously beaten Clark 3-2 and played a strong Crimson team to a scoreless tie.

Moe was the shining light of the Institute team, scoring both goals. The field was somewhat muddy at the opening whistle, but a stiff breeze dried out the field considerably and played at the backs of the Beaver kickers.

This game was the first real test the soccer team has had this year and indicates that the Beavers are in for a promising season despite this early season set-back. They have been handicapped this fall not only by the lack of a coach but by a lack of real opposition for practice workouts. However, with the added experience of the New Hampshire game, the team should prove a tough nut to crack for any opposition from now on.

Captain Arana is planning on getting in some strenuous practice this week in preparation for next Saturday's game with the Worcester Polytech team.

Soccer Schedule

Oct. 17 N. H. U., Durham
Oct. 24 W. P. T., Worcester
Oct. 31 Dartmouth, Hanover
Nov. 14 Northeastern, Home
Nov. 21 Clark, Home
Nov. 25 U. S. M. A., West Point

Sophomore Tug of War Team Strong

Crash—Bang—wot't'ell — *** blankety-blank-blank and 15 Sophomores bit the dust over on the tug-of-war course, Wednesday afternoon as the telephone pole which is attached to one end of the rope suddenly snapped and let the second year hawser-heavers gently back into the loving arms of dear old Mother Earth. At least on that particular pull the Sophs made up in strength what they lacked in numbers.

It has not yet been figured out how they managed to unearth such an avalanche of strength as was evident from the effects on the pole. However 15 men do not make up a tug-of-war team and unless more candidates come out for the hempen sport these men had better save their strength to use against the yearlings when these two teams clash on Field Day than to waste it in the foolish occupation of uprooting their poles.

FRESHMEN DEFEATED BY ST. JOHN'S, 20—7

Before a crowd estimated at slightly under 500 the freshman pigskin aggregation went down to defeat Saturday afternoon at the hands of a much heavier St. Johns second team to the tune of 20-7. The teams were much more evenly matched than the score would indicate and actual ground gained in scrimmage was about the same for each team.

On the first play after the opening kickoff the Engineers fumbled and a St. Johns man scooped up the elusive pigskin racing 50 yards to a touchdown. The sole touchdown which the yearlings got came after a straight march from their own 15 yard line to the St. John's goal. The Danvers outfit was unable to stop the strong offensive power of the frosh, and the backs crashed through for first down after first down using nothing but straight line bucking.

It was in defense that the freshmen showed the greatest weakness and it is in this department of the game that Coach "Buck" Shotts will spend the most of his time between now and Field Day. Both teams tried several forwards but few were completed and those that were went for small gains.

Considering the fact that this was the first game which the yearlings have played together, the coaches have much to be pleased about. The game also gave the mentors an opportunity to discover the weak places in the outfit.

John Hays Hammond Declares That Engineers Are Usually Underpaid

Suggests Co-Operation Would Alleviate Situation to Some Extent

(Continued from Page 1)

the inspiring efficiency of the engineering profession, the war could have been averted, believes Mr. Hammond.

Political offices should be filled more by engineers, believes the lecturer, and he sees a more efficient government under their regime. "The successful engineer cannot escape the odium of failure; he must make good and thus the successful engineer should be a successful statesman."

One of the troubles with the engineering profession is its lack of self assertion in the matter of compensation. Most of the great projects of today depend upon the co-operation of the engineer and as such, the engineer should receive just reward, according to Mr. Hammond. He wants to see a gentlemen's agreement between men of the profession for higher compensation and thinks that in this way, the morale could be even greater enhanced.

In closing, Mr. Hammond stated the requisites of an engineer. He must have powers of imagination, being able to see a thing before it is completed. He should always be ahead of the game as the chess player is always three or more moves ahead of the play. Mr. Hammond also deplores the general lack of culture among engineers. He believes there is a tendency for the student to get into his technical studies before he is sufficiently versed in the fine arts and humanities.

FOREIGNER DISLIKES ATTENDANCE SYSTEM

(Continued from Page 2)

future?" It does not take brains or intuition to answer the question. "Now"—the professors proceed in their reasoning—"if the acquirement of knowledge is the leading purpose for which men—and sometimes a few women—register in universities, why not let them choose themselves the way they think the most efficient to reach their goal? If they really estimate that they can get more out of an hour study at the right time, at the desk of a library or home in a comfortable lounge, than by attending on a fixed schedule a class where they sleep, sometimes, rocked by the low voice of the lecturer and the rhythmic noise of the pens scratching on the paper, why not let them do so? Many people would here interrupt by saying that, first, many students are not able to discern their best way, and secondly they never do feel like applying themselves to anything unless they are forced to. This, I think, is a rather severe judgment, for people who go to college are supposed to be, and they usually are, old enough and prepared enough to distinguish between right and wrong, between what should be done and what ought not to. While, on the other hand, those few who go to college just to wear twenty two inch trousers and sport sweaters with a letter or a number, do not make any good out of severe restrictions and compulsory attendance. They usually drop or flunk out. But now, enough about attendance. After all, most of us, with a little practice and good will can accustom ourselves to what may be considered an undesirable and unpleasant routine. And as long as preparation for the future is concerned compulsory attendance seems to be of great importance in getting the young men,—to whom the world is wide open with all its asperities and dangers and traps—well trained in a regular laborious, perhaps harder life. Which training results necessarily, for in the great game it is steadiness and endurance that wins.

FEW DAYS LEFT FOR SPORT SUBSTITUTION

Candidates for Orchestra of Show to Attend Meeting

If the freshmen fail to report to the office of the Physical Director much longer to sign up for a sport substitution in the place of Physical Training, they are going to find that it is too late and that it will be necessary for them to take the disliked "monkey drill" after all. Any man that has not signed up for the sport that he intends to go out for before next Saturday will not be allowed to substitute that sport.

All of the winter sports around the Institute are sending out a cry for freshmen to come out for the team. It is possible to substitute Track, Crew, Swimming, Boxing, Wrestling, Fencing, Gym Team or Basketball in place of Physical Training. Up to the present time, most of the teams have not enough men out for the sport to constitute a complete team. Some of the freshmen may think that if they sign up with the manager of the sport they are going out for, that it will be sufficient. This, however, is not the case, as it is necessary to sign in the Physical Director's office before Saturday.

SOPHOMORES LOSE IN WELL PLAYED GAME

(Continued on Page 3)

failed in succession. A pass Benson to Wilson netted 6 yards. Benson from a punt formation lost 4 yards. St. James ball on downs. Dusseault made 4 yards through his right tackle. Mazenkas made 3 at guard. Hanagan then punted and on the next play, an attempted forward by Benson, the game ended.

ST. JAMES HIGH	M. I. T. SOPHS
Driscoll (Connolly, Burke, Dusseault,)	l.e. r.e. Larson (White)
Walsh, l.t	r.t., Dean (Howes)
Sheehan, l.g.	r.g., Bartlett
Dineen (Capt.), c.	c., Wafford
Smith, r.g	l.g. Abbe (Metcalf, Rutherford)
Delva, r.t.	l.t., Luby
Bner (Connors), r.e.	l.e., Caputo
Everett (Hannigan, q.b.	q.b., Gray (Capt.)
Hannigan (Dusseault), l.h.b.	r.h.b., Seeley (Roleau)
Bresnahan, r.h.b.	l.h.b., Riley (Sweeney)
Mazenkas, f.b.	f.b., Proctor (Benson)

Score—St. James High 7. Touchdown—Mazenkas. Point after touchdown by drop kick — Hannigan. Referee—Higgins, Holy Cross. Umpire—Kennedy, Boston College. Head linesman—Barron, Georgetown. Time Four 12m. periods. Attendance 5000.

The Harvard Yard has a new addition to its group of buildings:—the Straus Memorial Dormitory. The gift was received last spring by the Harvard authorities from the Straus alumni, in memory of the death of their parents who were among the passengers of the Titanic on its last trip.

VOO DOO ISSUE WILL BE PUT OUT BY GIRLS

Voo Doo, in its next issue, will present to its readers a magazine edited entirely by a staff of girls. Competition is open to girls from all over the country, and it is expected that the result will fully equal the success of such issues in the past. Next issue will be the first put out by the fair sex in three years.

All competition for art work is now closed and Voo Doo is having a difficult task making selections from the abundance of material that has been submitted. The cover design is being done by Peg Pearly, who was awarded the art prize of the last girl's number. Miss Pearly lives in California and is the daughter of a Technology alumnus.

Competition for literary work closes October 23, and as yet no co-eds have submitted any material. Voo Doo wonders what the matter is.

Notices and Announcements

OFFICIAL

DEPARTMENT OF PHYSICS

Course 8.31 in Elements of Tensor Calculus will hereafter be given in room 4.231 from 10 to 11 on Wednesdays. Students planning to take Course 8.38, Theory of Relativity, to be given during the second term by Professor DeDonder of the University of Brussels, are strongly advised to take this course.

PHYSICAL TRAINING

All freshman who wish to substitute sport for Physical Training classes must sign up in the office of the Physical Director, room 335, Walker Memorial, before 12 o'clock Saturday, October 24. The following sports may be substituted: Track, Crew, Swimming, Boxing, Wrestling, Fencing, Gym Team, and Basketball.

UNDERGRADUATE

FRESHMAN FOOTBALL

There will be freshman football practice every afternoon at 4 on Tech Field. On your toes, frosh.

TUG-OF-WAR

Candidates report every night at 5.00 P. M. Freshmen report in back of track house and Sophomores by rifle range. More men are needed.

FRESHMAN RIFLE PRACTICE

In as much as only five freshmen have signed up for instruction there will be none given Tuesday afternoons as planned. If more sign up later the plan will be carried out. Men should apply in 3-310.

DEPUTATION WORK

Men who have done deputation work in other colleges or in their prep schools and who are willing to do the same here this year are asked to see E. F. Stevens '27, 526 Beacon Street, or C. C. Shotts, at the T. C. A. office.

DANCES

The T. C. A. Social Division has received tickets for the weekly informal dances of the Girls City Club of Boston. Tickets for these dances, which come every Friday from 8:30 to 11, may be obtained at the T. C. A. office at the price of 40 cents each.

R. O. T. C. RIFLE TEAM

The rifle range will be open on Thursdays and Fridays to 5, for the R. O. T. C. Rifle team. All men taking either advanced or regular Military Science courses are eligible. Men interested are asked to report on the days noted above.

MECHANICAL ENGINEERING SOCIETY

A meeting of the governing board of the Mechanical Engineering Society will be held today in room 3-312 at 5.

BOXING RALLY

There will be a meeting of all boxing candidates in the Hangar tomorrow from 3 to 6 so that the men may meet Coach Rawson.

MASONS

A dinner meeting open to all Masons will be given by the M. I. T. Square and Compass Club tomorrow at 6 in North Hall, Walker.

VOO DOO

A meeting of all literary candidates will be held in the Voo Doo office tomorrow at 5.

MUSIC AND LYRIC WRITERS

There will be a meeting of all men who are interested in writing music and lyrics for Tech Show on Wednesday at 8 in the East Lounge, Walker.

CATHOLIC CLUB

A dance will be given by the Technology and Simmons Catholic Clubs and St. Cecilia's College Club on Friday, October 23, at St. Cecilia's hall on Belvidere St.