VOL XV

WORCESTER MASS IAN 15, 1924

TECH GRADUATE DESIGNS MACHINERY SECONDS ARE FOR STONE MOUNTAIN MEMORIAL

To Be the Lone Wonder of the World SIX TO EIGHT YEARS TO COMPLETE

ill take its place as the "lone wonder structure resembling the Coliseum. " Although it will suring practice, and it is with great pride that we note that Harry E. Scott, P. L. '99, is engineer in charge of the

almost half the state of Georgia.

On one side the mountain drops in a sheer perpendicular precipice almost a thousand feet from summit operate. Across this face, Gutson Borglum, the noted sculptor, is engraving an indistructible monument to those who gave their all for the Southern Confederacy. The work is to be about 1350 feet long. Carved in full relief will be a panorama, representing the Confederate armies mobilizing around their leaders There are to be groups of artillery, horsemen, and long ranks of infantrymen. The center will be taken by an enormous representation of General Lee. His head alone will cover an area thirty feet square Around him in somewhat smaller proportions will be the figures of other The whole pano rama will contain about 700 figures.

Overshadowing in its immensity all out of the mountain immediately be the great works of art which man has neath the central groups. The am produced. Stone Mountain Memorial phitheatre will be a huge granite

construction is very interesting. pass in grandeur the pyramids of The figures of the central group were Egypt which required decades in projected by means of a powerful Egypt which required decades in projected by means of a powerful their construction, this memorial will lantern onto the face of the cliff, be completed within seven years. This is a fine tribute to modern engineer- pended by steel cables, painted in the outlines of the figures on the rock.

An ingenious device by which the work can be accomplished with comdesign and construction of the ma-chinery to be used on the project. Stone Mountain is about sixteen loom derrick was placed above the niles east of Atlanta, Georgia, and is point where the first carving was to be the largest solid body of granite in the done. This derrick was used to place world and its foundations underlie a row of steel trusses in the face of the cliff at right angles to it. A track will be laid over these trusses, upon which a travelling crane will

> Under this is an inverted tower a turntable to which is attached a pantagraph, an instrument by means of which patterns may be traced.

> This allows a wide range of move ment in all directions. The whole ap-paratus is electrically operated and controlled by one man on the work ing platform.

No blusting can be done, so all drillng is done with compressed air operated tools.

The whole country both North and South is interested in its develop.ecnt and more than \$3,500,000 has been donated.

A more complete account of the The entire memorial will also in-olde a Memorial Hall and amphi- Journal, which also contains interest theatre. The former will be quarried ing pictures and sketches.

NOSED OUT

Boys' Club Shows Come-Back SCORE IS 22 - 15

In a game replete with fast, accurate passwork by the Boy's Club and close guarding by both teams, the Tech Seconds were nosed out last Saturday night in the preliminary to the Tufts-Tech game. The Seconds showed the best form they have yet displayed, and game see-sawed back and forth second period, when the Boy's Club the second team by 17 points to 4.

Seconds putting up a stubborn defense. but soon the forwards of the Tech team began to work and Harris rang the bell with a clean shot. Kasper evened matters soon afterwards and went Harris one better by getting another basket within a few minutes. However, Harris was still in the running and he tied the score at 4 all. The guarding of Wright and Calder was the feature of this part of the game with the all round playing of the Boy's Club. Before the half ended, Calder and Dimick rolled up what seemed an insurmountable lead for the Seconds, the former caging two pretty long heaves and the latter making a basket follow up shot. The Boy's Club fought hard to even things in this half but Tom Wright was all over the floor, spoiling many accurate passes. The half ended with Tech in the lead 11-5.

The second period had hardly begun when Poley scored a couple of points on a pretty basket Wright was re-placed by Stevens and then Harris made another basket from the floor. The Boy's Club seemed to be fighting harder than ever at this point and scored six points on a pretty long shot and two baskets which came right after the tap, with the Tech backs out of position. The Seconds fought hard to regain their lead but the close checking of the Boy's Club prevented any scores. It was then the visitor's turn to rally and they were more for tunate, completely fooling the second team guards and scoring two more bas kets. Kasper was playing a wonderful game and was easily the fastest man on the floor. The fast pace was beginning to tell on both teams and Leyland (Continued on Page 3, Co). 5)

VARSITY BASKETBALL

N E 27: Tech 33 Brooklyn 12, Tech 18 12 Tufts 44. Tech 18

Harvard Lowell Textile 10

Peb. Amherst

MAC 13:

22 University of Maine

23 Alumni Springfield

Harvard Brown N H State

St. Stephens *Home Games.

SEASON Tufts' Defense and Scoring Ability Too Much for Engineers

TECH TEAM LOSES FIRST GAME OF THE

TUFTS 44 WORCESTER TECH 18

entire game, the baskethall team was former Fitchburg High star, started handed one of the worst defeats in the game in the other guard position, the history of basketball at the lo- During the second half he stitute by the strong Tufts' quintet, to his old lineup, with McAuliffe at who won 44-18. The worst defeat ever suffered by the Crimson and Gray Delphos and Sharpe in the forward hoopsters was the game won last year positions. Parsons played like a mad with Tech taking the lead just before by the Springfield College boys when man during the time be was in the the half, but losing it again in the they scored 42 points to Worcester's game, and showed that he will have 12 The Medfordites were always in to be reckoned with when it comes put up a wonderful fight, outscoring the lead, at one time holding an ad to naming the permanent holder of he second team by 17 points to 4. vantage of 31 points. The Engineers the bonor of teaming up with Capt. The game began with the Tech fought gamely in the second half. Higgins in the guard positions playing well enough to win against any usual team, but the superhuman defense of the Tufts team was impossible to break through to score ofdamage. ten enough to do any

Evans, forward, and French, center, of the Tufts team were responsible for the most of the visitors' scoring, the two together accounting for 31 points. Evans was one of the best visiting players ever seen in Alumni Gym, no shot appearing too hard for him, no matter from what position on the floor

Tech's hard luck in shooting proved a bugbear, for during the second half when it was evident that the only way to score was by long shots. Sharpe, Tech's diminutive forward. kept continually bombarding the basket, but invariably he overshot the team when he dribbled through the basket. He played hard and was Bostomans' defense and dropped one backed up by the rest of the team, but they were unable to get their

Coach Bigler tried a different combination last Saturday in his starting lineup. He moved Capt. Higgins up to shot a couple which rolled around the the pivot position, placing Delphos in a guard position until after the tap. This put Sharpe and Bittner together (Continued on Page 4, Col. 3)

Playing in hard luck throughout the in the forward court, and Gross, the Sharpe as usual. was the high scorer for the Boynton Hill players, but his count was kept to a minimum by the excellent work of Dowson playing ep-Delphos also turned in several neat shots for scores.

The game started slowly with the

ball in Tech's hands, the Tech players passing the ball around the center of the floor looking for an opening to their opponents' basket, but were unable to break through. Evans captured the ball and immediately started the Tufts team on its way to victory. Mahoney followed Evans' example by scrimmag under the basket, and Evans added another two-point basket and dropped one in from the 15-foot line

Sharpe broke the ice for the Tech in from under the basket. The oppos ing team watched him carefully after passes through the iron-man defense this and he found it impossible to of the Tufts aggregation this and he found it impossible to move on the floor without an opposing guard right on his heels. added to the visitors' score and Sharpe

TECH SHOW CASTS WORKING HARD

Need Freshmen For Mexican Army

Work on the annual Tech Show has | 26, T. D. Perry, '25, E. B. Lovewell, already begun and two casts have been 26, and A. E. Englund, 25, chosen. The production is to be "The Dictator," by Richard Harding Davis.

The Freshman cast is as follows: Travers, W. M. Vaughn, Jr., Simpson, this play deals with a revolution in a A. H. Holway: Hyne, F. Snyder, Col. Central American republic and it is a typical Davis adventure story.

The major cast, as selected by Coach Jack Leigh, is as follows: Brook Travers, D. G. Downing, '26; Simpson, A. A. Figenhaum, 21. Hyne, W. F. Ames, 26. Col. Bowie, S. R. Wendin. 25; Duffy, A. R. Brown, 25; Rev. Bostick, J. Y. Estabrook, '26; Lieut Perry, P. H. Linsley, '24; Capt. Cod-man, R. G. Heseltine, '25; Gen. Campos, I. S. Webster, '26, Dr. Vasquez, E. P. Wood, '26, Corp. Manuel, H. A. Wendin, '26, Col. Garcia, E. F. Cahalen. 25: Jose Dravo, C. H. Nordstrom, 25; Lucy Sheridan, H. A. Emerson, '26; Mrs. Bowie, C. N. Mansur, '24; Juanita, J. C. Irish, '25; steward, H. A. Taylor, 25 Mexican soldiers L. P Gaucher, 26, the best ever and with the early st D S Burns, 25; J J McAuliffe, 25, that has been obtained this year, N A Bergstrom, '26, A J Zalinsky, seems that their hopes will be realized.

Bowie B M Howker, Duffy, C R San ford; Rev Bostick, F. C Pomeroy Lieut Perry, P. F. Meigs; Capt Cod-man, J. A. H. Crosier; Gen. Campos, G. L. Esper: Dr. Vasquez, Carlos Carmino Corp Manuel, H. C. Waite; Jost Dravo, L. S. Clark: Lucy Sheri-dan R. G. Whittemore: Mrs. Bowie, F. C. Taylor: Juanita, L. C. Adams: steward, Norman Arter.

The two casts, as given about subject to change at the discretion of Couch Leigh. Couch Leigh would like to have about twelve Preshmen come out for the Freshman Mexican army which is a highly important part of

Both the coach and the management hope to make this year's Tech Show the best ever and with the early start

NOTED EDUCATOR DISCUSSES CHINA

Dr. Edmunds Gives Lecture

On Wednesday evening, Dec. 19, Dr. Charle, K. Edmunds presented a very interesting talk on China, profusely illustrated with pictures flashed on the screen. He was introduced by Dr. Holat an engineer, explorer, educator and author. An elaborate description of the economic, social and geographic conditions of China followed.

In Dr. Edmund's geographical survey, he pointed out the great part the ountry into provinces. These rivers changed their direction of flow in the past due to the breaking down of dykes and due to floods. As an example of this tragic effect upon the deelopment of China and her progress, he told of the change that took place in the direction of flow of the Vellow River near its mouth. This river is metimes called the Sorrow of China, and is rightfully named as it overflows its banks annually causing famine and course so that the mouth of the river (Continued on Page 4, Col. 2)

MUSICAL CLUBS HAVE LONGEST TRIP

Give Concert In Brimfield

On Friday night, January 11, the Tech Musical Clubs journeyed to Brim field where they gave a concert in the Congregational church under the auspices of the Senior class of Hitchcock Academy Although somewhat late in starting, the concert was run off with a

The Arcadians gave the concert a flying start by displaying their usual pep in the rendition of several popu-lar pieces. The Glee Club then rendered, "Tis Morn" and Please Won't You Be My Hm?" In this last selection the club was assisted by the church cat, which had a very powerful voice. The Mandohn Club took its turn and played two selections "Say it With a Ukelele" and "Annabelle." They were followed by two baritone solos, "Three for Jack" and "Rolling Down to Rio," by "Mab" Steele.

y "Mub" Steele. There was, now, a change from music to some Swedish impersonations by This great body of water over- Nordstrom, which were well received flowed its banks in 1854, changing its by the audience. After these imper-course so that the mouth of the river sonations came W. S. Bissell with sevimper-(Continued on Page 3, Col. 5)

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All checks made to the Business

All checks made to the Beathers Manager.
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January 15, 1924

EDITORIALS

HITTING THOSE EXAMS!

The time is rapidly approaching when we as Tech Students will be tested for the knowledge which we have acquired during the term. Some of us have been through the mid-years many times, and have an idea of what they mean. Others have yet to experience them for the first time, and therefore entertain grave doubts concerning our ability to pass them.

class of fellows who have seen the results of our efforts materialize in good grades from day to day, we need have no fear for the future. But there are some less fortunate who have not seen the fruits of their labors. We may have plugged away each night, seem ingly to no avail for the class work of the following day may have shown no signs of clearness of understanding, or even of fair comprehension.

There have been long nights of constant grind, and when the monthly exams came the effort seemed to have been in vain. We have been discouraged over and over again. Some of us that it is of no use to continue. Perhaps after all we are in the wrong school? The course is too much for our intellects. If we tried another college we surely could do better.

But wait a minute! Didn't we start in at Tech with the idea of graduating? Didn't we have a purpose which was outstanding, and which made us come re in the first place? Let's hold to that purpose until the last horn blows!

Emerson's philosophy was pretty Tinish every day and be with it. You have done what you with it. You have done what you could and absurdities no doubt crept in; forget them as soon as you can. Tomorrow is a new day; beit well and serenely and with too high a spirit to be encumbered with your old nonsense. This day is all that developing character in her students, is good and fair. It is too dear with The student who takes part in activi-

its hopes and invitations to waste a nent on the yesterdays

If we have done the best we could from day to day we need not worry about the exams. We may be down, but it is nothing to fall flat. But to lie there that is disgrace. have had some bad failures, but there s that old saving that the harder you fall, the higher the bounce, and how Not until some folks are flat on their back do they learn to keep looking up.

Fellows, pluck wins! Life doesn't consist in holding a good hand, but in playing a bad hand well. Edgar Guest out it well in these lines:

Somebody said that it couldn't be done But he with a chuckle, replied.

That "maybe it couldn't," but he would he one

Who wouldn't say so till he'd tried.

So he buckled right in with a trace of

On his face. If he worried he hid it He started to sing as he tackled the

That couldn't be done-and he did it Somebody scoffed; "Oh you'll never do

At least no one has ever done it:" But he took off his coat and he took

off his hat, And the first thing we knew he'd begun it.

With a lift of his chin and a bit of a

Without any douting or quiddit He started to sing as he tackled the

That couldn't be done, and he did it

INFLUENCE

Influence defined, is the ability to sway the will of another. It is the gradual or unseen operation of some cause. The greatness of an institution is determined by the greatness of the men who constitute it, including fac ulty students and alumni. Influence plays a big part in the life of every Scholastic standing alone does not determine the greatness of a college. The character of its components is directly responsible for the name which it may have attained

The character of its educational program may be faultless, but the recrea tional side of life may be subjected to far inferior influences. Therein may ie a great detriment to the name o the school. Care should be taken to keep all sides of school life on as high a plane as possible, if the good name

of the institution is to be maintained. The purpose of college training is to equip a man for greater usefulness Therefore if the school would have a reputation for efficiency in carrying out this purpose, all influences which detract from that aim must be eliminated or minimized. College should bring out the best in a man

Then let us uphold those ideals for which Tech should stand. We are a part of Tech, and the influence which re exert on our associates will help them to be loval to the ideal, and as the various parts are made more nearly perfect, the whole will more nearly attain the ideal. We should all be boosters for Tech, and as such we want Tech to be the finest of schools.

With the rush of a sky rocket, and the brilliancy and report of a vari-colored explosion of fire works. Tech might be advertised far and wide. But as suddenly as the colors burst forth. they would fade into oblivion and the effort would be in vain if Tech were ound in fundamental principles, and if she could not produce men that have character, and who are leaders.

Let us then resolve to make Tech's name mean far more than excellency of scholastic standing. Let us endeavor to insure her good name no cester but throughout the country by

ties and mingles with his fellows develops a personality which is of great value

But of paramount importance is the character of the student. Teachers, exert the best influence you can upon Classmates, be loyal to Tech standards and uphold her highest ideals. Alumni, remember the name of Worcester Tech is within your power to honor, and to uphold by the finer influence which you as college men may exert on your associates.

Thus with steady and firm foundation the old school may be elevated to the heights where, as the ideal school, she may be a shining light to the country, and men will come to recognize in her the finest and best that college life has for the undergraduate

A. S. M. E. NOTES

Prof. A. L. Smith Gives Interesting Illustrated Lecture

The first regular meeting of the student branch of the A. S. M. E. was held Wednesday evening in the Mechanical Engineering building. President Bemis reported as delegate to the conference held recently in New York. He told how the various branches were conducted and the method used for arous ing enthusiasm. Several plans were discussed for conducting the local branch Directly following the report, Prof. A. L. Smith gave a very interesting lecture

on "Peculiar Mechanisms." He gave reported in the 7th district, although some very interesting facts regarding the number of patents issued and said there were, in his mind, two animating motives for inventions; laziness and curiosity of the research spirit. first he explained by referring to Adam and Eve in the Garden of Eden, where everything was done for them. The curiosity of research motive he recon iled by the example of Eve eating the apple out of pure curiosity "to see what ould happen

Among the models and pictures he showed were those of a built in England in 1825, a lathe built by one of Worcester County's leading inventors, Thomas Blanchard, for the turning of gun stocks and shoe lasts, the use of a cam to cut a square hole a slot machine used more than 2000 years ago for obtaining Holy Water in a Grecian monastery. After the lecture coffee and doughnuts were serv The local branch plans to hold orl meetings regularly once a month from

WIRELESS ASSOCIATION

The Tech station started the New Year right, by succeeding in reaching the 7th district of amateur stations A card acknowledging the reception of the Tech signals on Jan. 2, 1924, recently received from 7QO, at Seattle, Washington. This is the first time that the reception of 1YK has been

the other eight districts have been reached a number of times

Reports from "across the pond" state that Tech is being heard consistently in Europe; and if receiving conditions in Worcester were better, two way communication could probably be very easily established.

Theta Chi

On Friday evening, Dec. 21 an informal dinner and dance was held at the house

To Mr. and Mrs. Kenneth W. Cross man '19. Nov. 29, 1923, a daughter Shirley

To Mr. and Mrs. H. G. Saunders, Dec. 11, 1923, a son, Donald G.

Among the recent visitors at the house were: "Bob" Perry, '22, Brothers Cunningham of M. I. T., "Freddie" Benz, '22, A. W. Langevin.

IC THAT SO?

I've often wondered Why any guy With brains Ever wastes his time Writing lines like this, Or why the editor of The TECH NEWS Would publish them. Now I know that They are damned handy To fill up space.



BENJAMIN FRANKLIN

Printer, journalist, diplomat, Printer, journalist, diplomat, inventor, statesman, philoso-pher, wit. One of the authors of the Declaration of Independ-ence and the Constitution, author of Poor Richard's Al-manack; and one of the most eminent natural philosophers of his time.

But nobody had thought to do it

By bringing electricity down from the clouds over a kite string, it was a simple thing to prove that lightning was nothing more than a tremendous electrical flash.

For centuries before Franklin flew his kite in 1751 philosophers had been speculating about the nature of lightning. With electrified globes and charged bottles, others had evolved the theory that the puny sparks of the laboratory and the stupendous phenomenon of the heavens were related; but Franklin substituted fact for theory - by scientific experiment.

Roaring electrical discharges, man-made lightning as deadly as that from the clouds, are now produced by scientists in the Research Laboratories of the General Electric Company. They are part of experiments which are making it possible to use the power of mountain torrents farther and farther from the great industrial centers.



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ALUMNI ASSOCIATION PLANS EXTENSIVE ACTIVITIES

busy for Professor Taylor and others connected with the Alumni Associa-

About the eighteenth or twentieth Professor Roys will leave Worcester for a tour of many of the mid-west He will speak at the University of Michigan and again famuary 23 he will address a body of our alumni at Chicago. Professor Taylor also plans to be at this meeting Chicago. On the following day Taylor will go to Cleveland where he will meet the alumni of that

This is one of the most important neetings of the Alumni Association. At this meeting each district Association will be represented. Delegates from Washington, Pittsburg, and Chicago will be among those present.

It is planned to have the Alumni Journal come out about January 21 The feature of this issue will be the "Story of the Hoosac Tunnel." be exceptionally good and it should be certainly worth reading, especially since it is written y Charles Wells of the Class of '80.

Joseph Beals, of the Class of '85, a

veteran clerk of the School Committee, and the business manager of the public schools, was reelected clerk for the twenty-fifth term of one year at a recent meeting of the School Committee. Twenty-five years ago he won only after the 17th ballot and at the last meeting he was unanimously elected

Democratic members of Council recently nominated Major Tucker as a candidate for the office of Superintendent of Sewers Major Superintendent of Sewers Tucker graduated from Tech in 1912 with a degree of sanitary engineer. During the was he served on the sani-tation staff of the army. For a time he was superintendent of the water works of Portsmouth, Va. Later be was given charge of purification and filtration work in the Panama Canal zone. This work he finished in five At present Major multing engineer for the firm of Mc-Dougal, Pease, and Preedman of Montreal Can

SKEPTICAL CHEMISTS

The first Skeptical Chemist meeting of 1924 was held in the Chemistry lecture room Jan 7, 1924. The speaker Mr. Louis Davis, 'II, who has gone into the manufacture of biologic cal products. Mr. Davis went to M. I. T. after graduating from here to study Biology, after which he was with Parke, Davis Co for a number of years and n now in business here in Worcester

The talk, illustrated with lantern es traced the production of small per vaccines, antitoxins etc.

Slides showing the injection of the into countless guinea pigs with tables showing maximum lethal doses and other statistics were among those shown Horses and cattle are the breeding places for the disease germs until the chemist collects these germs to make into serums for the injection into humans to make them immune these diseas

Mr Davis ended his talk by a short discussion of the Schick Test.

DEPARTMENT NOTES

CHEMISTRY DEPARTMENT

Under the guidance of Mr. Burgess the Sophomore Chemists in the class of mineralogy, in place of their regufar laboratory period on Thursday, were privileged to view the extensive and well chosen mineral collection of H. W Goddard at his home on Salisbury Street. Here were display-ed some splendid specimens of native gold, silver and copper, azurite and malachite of a wonderful velvety surface and varied shades of coloring, fire opal, amethysts, garnets, rubies, san phires, topas, tourmalines and other precious stones, agates, chalcedonyx and geodes showing the siliceous water imprisoned within. noteworthy was the fine collection of antique carved jade. statuettes and ornamental objects of varied colors and intricate designs. The trip furnished a most pleasing ending to a very fascinating course.

The Sophomore Chemists in their course in qualitative analysis recently made an examination of Pluro. This umni General Committee will be held in the reception rooms of the Gym massum on Pebruary sighth and the Gym widely advertised and Worcester public, ostensibly as a new and wonderful cleansing agent for silverware washing clothes dishes windows, rugs, floors and general household purposes where softening of water is desired. The analyses by the class showed the article to be a good grade of sodium carbonate, commonly called washing soda, and under the name of Pluro is being bought by the public at about five times its real

> In the November issue of the American Chumical Society Professor Kraus of Clark University has pub-lished the results of the work done by C. B. Hurd and W. W. Ducasse for their degrees of Doctor of Philosophy Dr. Hurd graduated from the Insti-tute in the Class of 1915, remaining here for several years as graduate aszistant and instructor He is now professor of Chemistry at Union College in Schenectady. Dr. Ducasse was astructor in General Chemistry at the Institute from 1921 to 1922 and is now connected with the chemical staff at University of Pennsylvania.

Recent visitors at the laboratory were Charles A Gammai, 20, R. E. ushing, '22, and D. F. Richardson, '23, Mr Gammal has severed his connec-tion with the Mathieson Alkali Company of Niagara Palls, where he has been research chemist for the past Mr. Cooking has left position as research Chemist with the Works and position with the Victor Talking Ma-chine Co., Camden, N. J., with Mr. Thompson and Mr. Haigis. Mr. Rich ardson, after graduation, accepted a position in the Bareau of Standards at Washington, D.C., where he is at work under Professor Herschel on problems connected with lubricants. In his spare time he is taking courses at the George Washington University

preparatory to an M. S. degree. z. During the Christmas recess, Profesor Jennings and Mr. Phillips made a trip of inspection, in the interests of the Worxester Medical Milk Comm Farms in Spencer. The Alta Crest Parms in Spencer. Farm is distributing an all Ayrshire milk under the certification of the Worcester Medical Milk Commission and the Sibley Farm an all Jersey Inspected Milk The chemical hacteriological control of these milks is made weekly for the Commission at the Salisbury Laboratory.

M E DEPARTMENT

Professor C. M. Allen will present a paper entitled "Comparative Tests of Draft Tubes" before the American Society of Civil Engineers in New Harding, heads of the Electrical Encort with several selections and was Province Chief H. R. Curtis, attended

York this week. The paper pared conjointly with I. A. Winter of the Alabama Power Company. An abstract of Professor Allen's paper en titled 'The Salt Velocity Method of Water Measurement" appeared in the January issue of the A S M E Jour

George Cary, '23, visited the Insti tute recently.
Prof. A. L. Smith gave an interest

ing lecture before the Student Branch of the A. S. M. E. last week, his topic "Peculiar Mecha

Lt. Karl Schmidt, '13 United States Representative in Germany, expects to return to this country in the Z-R-3 dirigible which is being built there.

The Junior Mechanics, accompanied by Prof. H. P. Fairfield, made an inspection trip to the Taft-Pierce Co., Woonsocket, R. I., and the Brown & Sharpe Mfg Co., last week. The following men were in the party: D. C. Bailey, R. N. Brooks, H. L. Eastman, M E Hutchins A W Kleeska F J. Manning L G Morse, K H Pratt, J. Quinn, and O. S. Swan.

Mr. A. C. Eaton, Hydraulic Engineer with the New England Power Company, gave an illustrated talk to the Senior class last week on "The Davis Bridge Development on the Deerfield River

The Washburn Shops have just installed a Reliance Tumbling Barrel This is going to be placed in a new room built below the shipping platform and will be driven by an electric motor

Professor C. M. Allen gave a talk last week before the Lynn Branch of the American Institute of Electrical Engineers on "Water Measurement and Modern Hydroelectric Practice.

H. H. Judson, 23, with the Riley Stoker Co., at the Murphy Iron Works. Detroit, Michigan, visited the Institute

C. C. Covert, Hydraulic Engineer with merly with the United States Geologic cal Survey, will give an illustrated talk to the Senior class on Tuesday, Jan. 8, eleven a. m., on "Stream Flow In-

Professor C. M. Allen and Mesers E. Taylor and O. H. Dodkin made efficiency test a week ago, on one of the units in the new power house at An-son. Maine, for the Great Northern Paper Co. This power house has four units, of 1500 horse power each, with space reversed for a fifth unit. This is the first test where the sait velocity method was used in an open channel special flume 16 feet wide. 18 et deep and 100 feet long was

Professor and Mrs. H. P. Fairfield spent the Christmas holidays with their

on and family in Pittsburg, Pa. Mr. C. F. Merriam has been ap-ointed auditor of the Cordaville Woolen Company, manufacturers of

Walden-Worcester, Inc., has present to the Mechanical Engineering Dept. a complete set of wrenches.

E E DEPARTMENT

Mr. A. L. Cook, '01, head of the Electrical Engineering Dept of the Pratt Institute, was a visitor here during the Christmas holidays.

Professor H. B. Smith was in Pitts burgh over the Christmas holidays and spent some of his time in the Westingouse million-volt laboratory at Trafford Recently Professor Smith was nominated vice-president of the Amerian Institute of Electrical Engineers

Professor Richie was in Indiana during the Christmas vacation.

Mr. Maitland, '22, has just been appointed instructor in Electrical Engineering at the University of New

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gineering Departments at the University of Texas, University of Illimois and Purdue, respectively, are each planing large expenditures for new electrical engineering buildings

The Worcester section of the American Institute of Electrical Engineers. met on Thursday, December 20, in the E E. laboratory Mr. William C Yates, Manager of the Industrial Control Sales Department of the General Electric Company, lectured on "Indus trial Control and Applications There of." He spoke very interestingly illustrating his talk with lantern slides and actual control equipment on the platform, which he had sent on here for the occasion.

PHYSICAL EDUCATION NOTES.

Professor Carpenter recently an ounced that he has opened a class in fencing which started Tues-day, January 8, at 5 p. m. All men. are requested to report in the gym next Tuesday at five o'clock

At a recent mass meeting Professo Carpenter requested all students with eason tickets, who come to the basket ball games without young ladies, to use the rear door of the gym. At the last two games, only a small percent of the students have done as Professor Car penter wished It = number of the students could use the rear door and in this way help Professor Carpenter

C. E. NOTES

A recent letter from Carl F. Meyer 22, who is located at Camp 3, Engi neer's Big Creek, California, gives an enthusiastic report of his work on this great project.

The Southern California Edison Co. has under construction, works which finally allow the generation of 1,400,000 horse power. The scheme in rolves a great amount of heavy con struction in the way of dams, tunnels pipe lines and power houses. The oncest tunnel which connects two wa tersheds is thirteen miles in length and has a clear height of fifteen feet and a width of fifteen feet.

A chain of power houses use the wa ter repeatedly through drops varying n 340 feet to 2,400 feet.

About 250,000 H. P. is now in opera tion and the entire 1,400,000 H. P. is to be in use by 1935.

Mr. Malcolm Arthur, '20, is also on this project.

SOPHOMORE CLASS MEETING

The Sophomore class beld a meet ing, Monday, Dec. 31. It was de cided that the banquet be postponed until Jan 25, to give the committee more time to work out the details. In due time the Freshman class will probably receive a formal invitation to the Sophomore banquet in order that they may all be present for the festivities

MUSICAL CLUB'S CONCERT

(Continued from Page 1, Col. 2)

eral saxophone solos, including the fa-mous "Saxophobia" After the Glee Thib had sung the "Winter Song" "Waiting for the Moon to Shine," there

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followed by "Milt" Bemis with his fa-mous act, "A Bit of Nonsense," which brought much applause from the audience Steele gave two more solos, 'Give a Man a Hoese, He Can Ride" and "Smilin' Thru," followed by the Mandolin Club with "That Old Gang of Mine" and "No, No, Nora." The con-'Stein Song." Tech songs, and the Alma Mater by the Glee Club.

The Arcadians furnished music for a dance in the Town Hall after the con cert until until 12.30.

The favorite expres going out and during the concert was "When do we eat?" The expression The expressions on the bus coming back were too num erous to mention but everyons agreed that the concert was "the cat's meow," especially the Giee Club's first encore

SECOND TEAM GAME

(Continued from Page 1, Col. 3)

went out in favor of Sanford with Jerome replacing Powers for the Boy's Stevens did some clever guarding under the basket at this time, holding the scoring to a minumum, but before the game ended the visitors scored two more baskets

15-TECH SECONDS Kasper ef rf Harris Powers, Jerome W H Leland, Sanford L. Tisdell c e Dimick rg Wright, Stevens Foley rg Tistell ig ig Calder Goals from floor: L. Tistell, Foley 3. Kasper 6, Dimick, Calder 2, Harris 4 Free tries Kasper Jerome Leland. Referee Dan Kelly Timer, Kimball. Scorer, Lamay.

Alpha Tau Omega

The Christmas banquet was Sunday,

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DR. EDMUNDS SPEAKS

(Continued from Page 1, Col. 1)

was 350 miles from its former opening At another point in the course of the river several hundred miles from the coast, the direction of flow swings through an angle of ninety degrees, running in nearly a straight line for over five hundred miles. It was through this part of the river that Edmunds travelled in his survey, the first white man to make the passage. He described it as being much vivid with its gorges and rapids than any river in this country, with possibilities for hydro-electro developments for delivering power for the advancement of Chinese industries.

Chinese religion is found in many forms and odd of character. As an example of one of their beliefs, if a widow remains as such for a long period of time she is honored by the erection of an arch over some public highway. This is a religious shrine and is reverently acknowledged by passersby. Another shrine erected in honor of some prominent man is the "Pago-da," a tower-shaped structure built with an odd number of stories always, ranging from five to thirteen stories high. From this the Priests worship to keep away the evil spirits or to obthe good spirits as they come. The form of cemeteries and their formation is of a peculiar design. The oldest member of a line of ancestry is found in the center of tombs which are grouped around him in the form of a circle. Ancient Manchows are buried cases elaborately, at the top of a high mound.

Moving pictures of Canton were shown after the illustrated lecture, showing the streets and places of in-terest of that city. Canton Christian College was screened with its activi-ties on the campus well pictured. One

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thing of interest was the pictures of the artificial island upon which are established the French and English government buildings. It showed the English and French bridges which crossed to the mainland. These are of special interest for the part they took in the establishment of the Chinese Republic at the time of the overthrow of the Chinese Manchow, as places of refuge for foreign missionaries and representatives during the uprising, was of vital importan

Seldom has Worcester had the opportunity to hear anything more interesting than this remarkable talk on one of the oldest countries at the present time and one that is growing more rapid than the rest of the world may

BASKETBALL

(Continued from Page 1, Col. 5)

ket for Tufts, and Bittner scored or a foul shot. Evans and Mahoney fol lowed with a twin counter apiece, and Tech called time out for the first time this season, with the score 19 to 3 against them, with the period only a little more than half over. The new combination went into the game at this point, with Parsons replacing Gross, McAuliffe taking hold of the pivot position, and Delphos replacing Bittner in the forward court.

McAuliffe celebrated his entrance with a basket, but Evans increased the visitors' lead by scoring two more and Mahoney sank a shot from the center of the hall. Sharpe ended the scoring of both teams for the first half with one of his pretty one-hand shots, the score at half time standing 28-6 against the Worcester players.

Play was more even during the second half. Tech scoring 12 points in this period to Tufts' 16. The way the Boston team started off this half, run-ning the score to 37 before Tech was able to collect a solitary point made it look as though they had only been fooling during the first period. ever. Bigler's charges took on a ner lease of life, and it was a pretty sight to watch their playing. McAuliffe got a long shot, Sharpe dropped one in dropped one from the foul line, Delphos soon fol-lowed with a floor goal, and Sharpe added a twin-counter in rapid su sion, making the team look more form



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idable than when Tufts had been scoring at will. It was too late however to have any great effect on the score except to decrease the Medfordites margin of victory.

The ball was passed up and down

the floor for a while after this spurt of scoring and play was about even during the last few minutes of the game, after Evans had been relieved. French added another basket, bring-ing his total for the evening to 6 goals from the floor, while McAuliffe and Delphos countered with one each Bogasian, who had replaced Evans, ended the scoring when he dropped in a neat shot from under the basket. Lineup

TUFTS-44 18-W. P. I. Mahoney, Roselli If rb Gross, Parson Evans, Bogasian, rf lf Delphos, Higgins French, McMinigal c

c Higgins, McAuliffe Wilson, Rogers lb ... - rf Sharpe Dowson rb _____ If Bittner, Delphos Baskets from floor, Sharpe 3, Del-Dowson rb

ohos 2, McAuliffe 2, Evans 3, Bogasian, Mahoney 3, French 6, Dowson 2, Bas-kets on free tries, Sharpe, Bittner. Delphos 2. Evans 2. French, Dowson. Free tries missed. Bittner 3. Delphos, Evans 3. Bogasian. Fouls called on Sharpe. Delphos, Higgins 2. McAuliffe, Gross, Evans, Mahoney 3, French 2, Dowson Refree, Dan Kelly. Timer Kimball. Time two 20-minute periods Attendance 1000

SENIOR CLASS MEETING

At a recent meeting of the Senior class, various subjects were brought up.

A report of the Aftermath commit-tee was presented and showed that the publication was Senior well under Seniors were urged to get their way. characteristic pictures in as soon as possible in order that this section of work might be dropped.

After much discussion it was finally cided to dedicate the coming after math to the late Professor Himmer

"Hey, there! Aren't you a

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