MEETING OF MINERS
IN UNION THURSDAY

Students Invited to See Slides of the Scenery of the Rhine.

The Mining Society will hold its open meeting in the Union Thursday, instead of on Wednesday. All are invited to come and see the wonderful lantern slides with which Professor Harvey W. Shinmer will illustrate his talk, "Physics and Geology and Scenery of the Rhine." He has been through Europe several times on geological work, and on those trips he has gathered a collection of views of that most beautiful region.

Dr. Shinmer is now Assistant Professor of Paleontology at the Institute, having taught at Columbia and Yale Summer School before coming here.

The officers of the Mining Society want all the men who are interested to come to the meeting Thursday evening and hear Dr. Shinmer, so that no man will go away feeling that he has lost time from exam. studying.

MR. MULREADY TO TALK TO CATHOLIC CLUB

Interesting Reports of the Committee to Be Heard.

This evening the Catholic Club will hold its first meeting of the year, and according to the usual custom some interesting reports of the committee members will be made to the members on this occasion, and they are very fortunate in procuring such an able speaker.

Mr. Mulready is the chief probation officer of the courts of the State of Massachusetts, and consequently has had the opportunity to come into close contact with the criminals of the world. This class of people are little known to the outside world, especially the juvenile cases, in which Mr. Mulready has had great interest, doing remarkable work in this branch of his work. The success which he has achieved is due in large part to his ability to handle it effectively. His talk tonight will undoubtedly be of great interest to all.

There will be a great number of surprises sprung at this meeting which will be of interest to all the members. The first report of the dance committee will also be given at this time.

The chairman, G. S. Walsh, has had every man on the committee working overtime and he has accomplished surprising results. His report will be highly interesting and full of unexplored possibilities.

The question of slides is also to be brought before the members by the committee and will probably be chosen at this time, as the dance orders must be given out in the near future. Every member of the society who is at all interested in the society should be present at this meeting.

"Johnny" Grant has been around town for a few days, and is looking well. Saskatchewan weather must have agreed with him.

GEOFFREY R. THAYER IS STAGE MANAGER

Tech Show Assistant Two Years
—In Many Other Activities—Course VI.

Geoffrey R. Thayer, '13, of Allston, Mass., has been chosen Stage Manager of Tech Show, 1912, and his appointment has been ratified by the Institute Committee. Mr. Thayer was born in Allston and attended the grammar school in that city. In 1903 he entered the Mechanical Arts High School, and he graduated from there in the class of 1909. While there he was prominent in many of the school activities and was at one time the editor of the "Artie," the school publication. On his matriculation at the Institute he was appointed second assistant manager in the Stage Department of Tech Show, 1910, under Kenneth Greenleaf, '11, and served in that capacity during the production of the "Queen of the Cannibal Isles" in the spring of 1910. As a reward for his untiring efforts he was promoted first assistant under Erwin H. Schell, '12, for the production of "Pretested French" last April.

GEN. BIXBY WILL SPEAK AT DINNER

Alumni Banquet Tonight to Be Big Affair—Governor Bixby Unable to Come.

About three hundred Alumni and others are expected at the big Alumni banquet in the Hotel Sommerville Thursday night. Great interest has been shown by the graduates in this dinner, not only because of the speaker, but especially on account of the new site, and the proposed discussion of future development. Besides this the election of new members of the Corporation of the Alumni Association itself will take place.

Governor Bixby regretted last night that it would be impossible for him to be present, but many other notable speakers will speak. General Wm. A. Bidlack, Chief Engineers of the U.S. Army, will be present. General Hitch has charge of the work in the raising of 50,000 $1000 certificates in Hawaii for the War Department. E. Jones Parrish, Director of the Census; C. W. Mulready and James W. Rollins are among the speakers.

TECH WELCOMED

Mayor of Cambridge Thinks Site Does Most Important.

That Mayor Edward J. Barry of Cambridge is highly interested in Tech Growing Technology go to his city was evident in the order which determined the site which should be selected for the Union. Mayor Barry said that all matters are settled in regard to the Institute's new site. He stated that he considered this the most important movement which had happened during his administration. He offered his signature during the New Year's reception, which was held in City Hall, in the presence of Everett Morehead representing the Institute; T. H. Raymond, one of the workers in getting Tech to go to Cambridge; Edwin M. MacNeil and nearly all the city officials. Chairman Frank J. McAvoy, who is chairman of the members of the Highway Committee, received the seal with which Mayor Barry signed the document.

1914 RELAY MEETING

At a meeting of the 1914 relay team in the Union yesterday afternoon it was decided to get white sweaters. The pictures for Technique will be taken at Noyes's Saturday, at 2:45, when all the men are expected to be on hand with their outside suits.

PLANT TALKS.

That portion of the Lowell Institute Course under the auspices of the Botany Department of the State College of Agriculture with the local plants begins January 12. The following lectures are as follows:

January 4—The Indigenous Flora of Eastern Massachusetts.

January 11—Some Effects of Civilization Upon Our Flora.

January 18—Some Local Problems in Geographic Botany.


All of the above lectures will be given by Professor M. L. Permiad.

CATHOLIC CLUB—UNION—TO-NIGHT AT 8.

INDOOR CLASS MEET

FRIDAY NIGHT IN GYM

Hard Fights Expected in Most Events—Juniors Look Like Winners.

Friday night the gym will be the scene of the annual indoor championship class meet, which will be the first indoor event of the season. The men of the general have been working hard and they are looking like very fine class, as expected, especially in the dashes and in the shorter runs.

The outcome for the class championship is very doubtful, but it looks as if the Juniors have as good a chance as any of the four. In the dash the Stayhons have Louis Wilson, Oettinger who should take first, also Wilkins, who has a great deal of speed and should be among the winners; Oettinger will stand a good chance to place in that event, but does not look as good as Thompson, 1913, or Benson, 1912.

The quarter-mile is always one that is hard to pick; as the track is in good condition and is running well this year, although he was not the first man in the relay trials. Benson run some fine trials and might surprise us and take this event. Munro, 1912, is in the lead in this race and looks like a place, as does Nye and Earl Perry.

The hurdles are the dark events, as usual. Few men are trying out for them, and the few that are are men. This has always been a very weak point in the Tech track teams, and more men should practice for this event. It will be hotly contested. Marceau is another favorite and will be expected to place in that event, but so small that the best man does not speed and should be among the winners.

Wilkins, who has a great deal of dash the Sophomores have Louis Wilkins, Oettinger, one of the workers in the Institute; T. H. Raymond, one of the workers in getting Tech to go to Cambridge; Ed- win M. MacNeil and nearly all the city officials. Chairman Frank J. McAvoy, who is chairman of the members of the Highway Committee, received the seal with which Mayor Barry signed the document.

(Continued on Page 2, Col. 2.)
FURTHER EXPERIMENTS WITH THE "FROUDE"

The Question of the Pitch Ratio of a Propeller Subjected to Further Investigation.

In the recent report published in THE TECH concerning last season's experiments with a miniature vessel on the Charles River, a few details were necessarily omitted because of the fact that all of the data which was gathered at the time had not been thoroughly examined. Professor Peabody now states that numerous experiments were made concerning the pitch ratio of a propeller, both while the vessel was being used for towing, and while running free, and that a lot of valuable information of a technical nature was received from the tests. This question of the pitch of a propeller is one which has long been in dispute, and it is intended to conduct further tests along these lines just as soon as it is possible.

STAGE MANAGER.

(Continued from Page 1.) The Stage Department, of which he is now manager, has complete charge of the books submitted for the basis of Tech Show, 1912, and will make the final selection. These books have already been sent to Coach Bangs for his criticism and advice, and it is expected that his decision will soon be at hand.

Rehearsals for cast and chorus will be held every day during the next two months preceding the first performance, and since the coach is present about three days each week, these rehearsals will not be under the direct auspices of the stage manager and his assistants. They do the prompting, provide music for the rehearsals, and drill both the songs and dialogue into the men. Moreover, this department makes all provisions for costumes, wigs, makeup, calcium lights, stage properties, and the like.

It is expected that in George Foster's Tech Show, 1912, has found an able man, so that the Stage Department this year will be exceptionally efficient.

CLASS TRACK MEET.

(Continued from Page 1.)

1912, who has been trying for places on the team in the jumpers' division, and it looks as if he will be one of the point winners in the meet. One of the interesting events of the meet will probably be the last all-round relay race between all the teams, while a Junior will lead the team, while a Junior will lead the team. Freeman, looks good also.

AN OUNCE OF PREVENTION.

The Adolph S. Lundin scientific system of Turkish Baths is the only natural and hygienic way to prevent that on-coming cold. Established twenty years ago under the Toremen Theatre. Special rates to a party of six, five dollars.
Glee Club to Sing at State Prison

Special Music Being Prepared—Invitation Came Through Mr. Talbot.

Through the agency of the T. C. A. the Glee Club has been asked to sing at the State Prison in Charlestown on next Sunday morning, and are now rehearsing some special music for the occasion, which will be the regular Sunday morning service. Mr. Talbot, the T. C. A. secretary, was at the practice which was held in the Union yesterday afternoon, and assisted Mr. Robinson, the leader, in telling the men about the concert.

As this is more or less of a special trip only the men will be taken who can go conveniently, and the members will, therefore, be considerably smaller than usual, although thus far about eighteen have signified their intention of being there.

The program has been selected with care and will be appropriate for the service, and with the two special rehearsals which the club will have on the hymns and anthems, most of which are familiar to the men, it is expected that the music will be a success. Among the numbers will be: "All Through the Night" and "Prayeme Father." The second special practice will be held on Friday, January 2d, at 4:30 o'clock.

Architects Meet Thursday Evening

Prominent Boston Architect, Mr. J. Randolph Coolidge, to Speak.

The meeting of the Architectural Society, which will take place Thursday evening, January 4th, should be one of the most interesting of the season, for the speaker, Mr. J. Randolph Coolidge, Jr., is to consider "Architectural Practice and the Trend of Local Development," a subject in which all Tech architects have a very live interest, from the fact that there is now so much building going on of almost a monumental nature.

Mr. Colidge is a member of the firm of Coolidge & Carlsol, which has done much of the recent work of value, and is for that reason entitled to be well fitted to speak on such a subject.

The admission will be thirty-five cents and will include the refreshments. The meeting will take place in the Pierce, at 8 o'clock.

AUSTRALIANS WIN.

Keep Davis Tennis Cup by Victory Over Americans.

Yesterday the Australian tennis champions completed a most overwhelming defeat of the American champions who went to New England with the best prospects in years. William A. Larnard, the undisputed leader here, was defeated by Ted Heath, who is a newcomer in the national playing, and who promises to be good for many years. The American players, Beals Wright and M. E. McLaughlin, completed the strongest team that we could have sent. Tuesday the Australians won both singles matches, and yesterday Norman Brookes and A. W. Dunlop defeated Wright and McLaughlin as follows: 6-4, 7-5, 7-5, 6-4. It is probable now that matches for the cup will not be rescheduled at least three years, as England, the only other worthy challenger, is worse off than America.

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SOPHOMORE TEAM TO PLAY SALEM NORMAL

Salem Represented by Strong Team—Sops Miss Two Regulars.

The Sophomore basketball team will journey to Salem this afternoon, where they will meet Salem Normal five. The Sops have what they call a better team this year and will be a much harder proposition to beat. The Sops have put in a lot of practice for this game and the coaches may be able to count on the usual three fingers at least.

Last year the 1914 team beat Salem by a score of 52 to 5 but the Normal School has a much better team this year and will be a much harder proposition to beat. The Sops have put in a lot of practice for this game and may be able to beat the visitors this year.

The team will leave the North Station at 2:35 P.M. and will go along and cheer for them. The lineup will be: Bryant and Williams, forwards; Fox and Price, backs, and Reckford, center.

WRESTLING MEET.

The wrestling team is getting into fine shape to start their schedule on January 15, when they will meet the Salem Y. M. C. A. team. Five weights will compete, and while the team is not definitely picked, Biglin and probably represent the Institute in the 133-pound class, Bledgett in the 115, Smythe Martin in the 145, and Treat Smith in the 155.

In preparation for this meet there will probably be a tournament to decide the best men and to give the team a little competition among themselves. Medals will be given to the winners.

ALUMNI DINNER.

(Continued from Page 1, Col. 3.)

which the Institute stands as an ideal as any that can be expressed by form, and it is pre-eminent the ideal of the thoughtful section of the American people today." Dr. Noyes then read a letter from Mayor Barry of Cambridge, expressing his belief that the Institute had finally a clear path to the site across the river.

The next speaker, General Wm. A. Bluford, '79, spoke of the Army Engineer Corps, and the need it now had of technical men. He noted that the Panama Canal will be open to passage in 1915. The Director of the Census, E. Dana Durand, spoke on immigration and what New England must do to maintain an even pace of native-born with those from foreign stock. "It may be necessary," he said, "to require immigrants to go to and stay on farms, as there are needed, and the cities are sadly overcrowded." The major portion of the immigrants country now are from Southern Europe, and it is questionable whether the country assimilates them. They are neither for or of the government.

The following elections of officers of the Alumni Association were announced:

President, James W. Rullin, '91; Vice-Presidents, A. P. Kepelond, '97; C. L. Metzoff, '92; Secretary-Treasurer, Walter Humphreys, '91; Executive Committee, C. L. Gibson, '93, and Lawrence Allensworth, '97.

Those Harvard turbine lectures will probably be worth hearing.

The upperclassman's idea of a bellboy: a Freshman central in uniform. The Freshman's idea of eighty-five cents: something bigger than a blue bread-crest.

They say the Russell engine does not like the treatment the Seniors give it, or so it seemed yesterday.
BASKETBALL TEAM TO PLAY NEW HAMPSHIRE

Team Much Improved in Passing
And in Shooting Since Last Game.

The Varsity basketball team is working the second set five for all it is worth this week in preparation for its next game Saturday with the New Hampshire State College team at Durham. The squad has made a lot of improvement since the first five, and it is sure to give a much better account of itself. The passing, especially, is a great deal better, but the covering is not as good as it might be. Captain Scher and Friedman are the star players, but Shatze's clever shooting is attracting much applause. Morry is reaching them well at center.

The second team has shown even more improvement than the first five, and the Varsity has its hands full to deal with victoriously. Ford and Samson have shown up particularly well and seem to be of almost Varsity material.

The men to take the trip to Durham are Managers Friedman, Captain Scher, Shatze, Morry, McCarthy and Morse.

CATHERINAL CLUB.

(Continued from Page 1, Col. 4.)

The price of the tickets will be only $1.50, and every member of the club is expected to attend. The dance this year promises to be more of a success than last year's was. The committee has been unusually active and all the arrangements have been made except the sending out of the invitations. A full account of the arrangements will appear in an early issue of THE TECH. At the close of the meeting Father Scanlon addressed the fellows.

TENNIS CHAMPIONS.

The Australians Win Last of Series—Wright Unable to Meet Heath.

The last of the series of matches between America and Australia was played yesterday in Christ Church, New Zealand. The Australians again demonstrated their superiority when Norman Brockesscard defeated McLaughlin in the singles. An unfortunate accident occurred when Wright was unable to meet Heath in the other singles match owing to illness, and it seems that Laidre might have stepped into the breach if he had not felt apprehensive about his chances of winning.

The Australians by the scores have apparently been in a class by themselves as the Americans in the World Cup. If the strongest team in the country could have lost the Cup, so much the better. The best team in the world is sure to give a much better account of itself the next two years, in which time all the Australians expect to have fine years.

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PUBLIC SPEAKING.

The exercises in Public Speaking will be held today in C. A. Walker. Informal talks will be given by the following men: A. M. Loeb, "A Common-sense View of Lying;" Mr. W. D. Moore, "Apple Culture in New England;" Mr. W. D. Mathers, "Scientific Management;" Mr. H. M. Rand, "The Civil Engineering Summer School;" Mr. C. P. Clarks, "The Results of Overcrowded Population;" and Mr. C. A. Lloyd, "City Planning in the United States."

Visitors are welcome to all these exercises.

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THURSDAY, JAN. 4, 1912

IN CHARGE OF TRUPH ISSUE.

EDITOR—Cary, C. A., 1912
Associate Editor—McCall, C. A., 1912; More, R., 1914; Irving, H., 1913; Somersby, F. J., 1914.

Several weeks ago we published an editorial recommending the House Committee on their enterprise in phlegology, the Union hair brushes, hand brushes, etc. We commented at that time on the fact that we hoped that our "light-fingered" members would leave them for a while until we had a chance to try them out. We notice today that out of five hand brushes there are just two left, and we would advise those who desire to try them at once as they are going fast, the hair brushes having disappeared entirely. This is a mistake nearly as bad as that of robbing a peanut machine, and the union seems worse, because these men are taking away the advantages of the remainder of the student body.

The Alumnus certainly showed their interest in Institute affairs by their attendance at the recent meeting of the Alumni Assocation. The students, on the other hand, have shown no interest in the Institute affairs by their attendance at the recent meeting of the Student Council.

UNIVERSAL PEACE.

"The United States and the United World," the subject on which Mr. Edwin D. Mend of the World Peace Foundation will speak this noon in the Union. He is one whom President Marvin of Boston University has called "a man who has given his life and his fortune to the cause of universal peace—one of the finest types of gentleman." Mr. Mend is a sage, for he has spoken several times on the question in favor of votes for women. He went abroad last summer to study the situation of women's suffrage and Universal Peace, and comes before the T. C. A. prepared to give a very interesting talk.

TRACK MEN.

All track men except juniors are expected to be at the Gym for regular track practice this afternoon.

Push it along—shoot it over! Velvet—so-called because exceedingly smooth—smooth because aged over two years, in which time all the wrinkles have been ironed out of the leaf leaving the goodness that we all crave for our pipe. Velvet is a tobacco mellowed in hitherto unknown smooth to barlor "fine." It's just the sort of tobacoo you would make for yourself. Millions of men cheer for it. We never knew of a man who didn't like Velvet! Hurrah! Don't let it pass you. At all dealers.

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