This evening at 8 o'clock the Technological Southern Club will hold its first big social function of the year in the form of a reception and dance at the Copely Plaza Hotel. The reception will start at eight, but dancing will not be begun until 9 o'clock, thus enabling all fraternity men who desire to be present an opportunity to attend their own meetings or other engagements planned for the first dance.

The Southern Club Dance is one of the "social" events of the season, and this year bids fair to break all records for being an enjoyable affair. The object of the dance is essentially to bring all Southerners into a closer relationship with each other and to engender a closer feeling of comradeship between those whose aims and ideals are the same.

T. C. A. SOCIABLE

Prof. Derr To Give Illustrated Talk
Friday Evening.

The T. C. A. is planning to give the second of a series of sociables to be held during the year. The sociable planned for will be held Friday evening in Huntington Hall. Previously the T. C. A. has always had its sociable gatherings in the Union, but on this occasion, Huntington Hall has been selected.

The feature of the sociable will be an illustrated talk on "A Trip Through Scandinavia," by Professor Derr. Arrangements are being made for several research work done last summer by the staff of the Biological Department at the Institute. As article by Professor Sedgwick dealing with general aspect of the food problem is given space. The article is a reprint of an address given before the Association at its last annual meeting.

RESEARCH WORK IN T.C.A.

The first part of the programme will consist of a short talk by Professor Sedgwick on "The Peopling of America," followed by a demonstration of a film on "The Peopling of America." The film will be shown in the Huntington Hall auditorium.

BIOLOGICAL DEPARTMENT

Partly Summarized in Address By
Prof. W. T. Sedgwick Before
Health Assn. 1913.

In the Food Supply column of the Journal of the American Public Health Association a paper given in clear and readable form to the results of the research work done last summer by the staff of the Biological Department at the Institute.

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WINTER CONCERT

Tickets for Reserved Seats To Be On Sale Wednesday.

The tickets for reserved seats at the Winter Concert will be on sale Wednesday and will be on sale in the Union at noon.

The program for the evening will be as follows:

The first half of the program will consist of a recital of vocal and instrumental music by the students of the Music Department. The second half of the program will consist of a performance of the Tech Glee Club, under the direction of Professor Sedgwick.

The concert will be held in the Huntington Hall auditorium.

DELAY IN TENNIS FINALS

Misunderstanding On Part Of The Contestants The Cause.

Arrangements had been made to have the final round in singles of the Fall Intercollegiate Championships played this afternoon at Jarvis Field, but owing to a misunderstanding on the part of the contestants the match was not played.

R. A. Warren '12 and H. R. Stewart '13 were scheduled to play, but Warren did not show up to play.

The officials of the Tennis Association hope that the match will be played tomorrow and that the contest will be decided.

HOCKEY PRACTICE

The Hockey Team held its last practice at the Arena and there was a record attendance of 1,000. The men were divided into five teams, and each team played a practice game with the Pilgrim A. C. Rogers, Cushing, and Haskell, and the amount of interest shown by the crowd was a mark of itsased at the Tech 1913 team, a team of the year's best athletes.

FRESHMAN BASKETBALL TEAM VICTORIOUS

Strong Oliver Ames High School Team Loses Interesting Game 37 To 20.

In a close, fast game the Freshman Basketball Team defeated Oliver Ames High School at North East Saturday evening by the score of 37 to 20. Many credit on this victory to the Freshman, as Oliver Ames has always put a fast team in the field, and this year's five is in all respects up to the average. The team will be remembered as the best basketball team that Tech ever had.
THE TECH

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THE TECH

COMMUNICATION

To the Editor:

Dear Sir—The Tech Southern Club was recently criticized in an editorial in the TECH for choosing Monday night as the night for the dance. The basis of the criticism was the fact that the fraternity men hold their meetings on that night.

Allow us to state that the date was selected through much general satisfaction on the part of the committee, but because December 8 was the only night open at the Copley Plaza Hotel before Christmas. To make it possible for fraternity men to attend, we plan to start the dance itself at nine o'clock. The time preceding will be devoted to reception. We hope to involve all the fraternity men, and they will have ample time to attend their meetings and yet not be late for the first dance.

We assure you that the criticism was well taken, and appreciate the interest you have taken in the matter and the space you have given us in THE TECH.

Yours truly,
Dance Committee.

CHINESE STUDENTS

Association Holds Meeting Saturday—Speaker From Harvard.

The Chinese Students' Association of M. I. T., which is a branch of the National Intercollegiate Alliance of Chinese Students in American Colleges, held a regular meeting in the Union Saturday afternoon. At this meeting papers were read by C. C. Tseng and Loy Chang. Tseng, who is a student at Harvard University, spoke on the subject of "Three Classical Problems," while Chang, who is a student of Harvard University, spoke on the subject of "Science, and Art."

The Club holds meetings fortnightly and it is the custom for the clubs at the Institute and Harvard to exchange speakers. The object of this is to broaden the scope of knowledge of the members of both organizations.

In the National Alliance the organization is somewhat complex, owing to the fact that there are in American colleges over a thousand Chinese students. Each year three general conventions are held; one in the East, one in the Midwest, and one in the West. These conventions are usually held during the summer months, and it is the duty of the Sectional Chairman of the Alliance to select speakers from the various clubs to address these meetings.

The pictures were shown on Thursday evening by Miss H. S. Raymond, a Chinese student at Harvard, and on Saturday afternoon by Mr. C. C. Tseng, a student of M. I. T. The lantern slides which were shown by Mr. Tseng and Miss Raymond were exhibited for the purpose of acquainting the members of the Alliance with the various cities in which the Alliance is active.

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THE TECH, BOSTON, MASS., DECEMBER 8, 1913.

NOVICE WRESTLING MEET

(Continued from page 1.)

after tiring out his opponents. The next match between the heavyweights Taylor and Crowell afforded much excitement. Taylor finally won after ten minutes’ hard work. Blakney put up a fast bout against his opponent, throwing him in four minutes.

In the last match Doc Leslie put up a good fight against a more experienced man. He got out of the many bad situations by his strength, but was finally pinned down for a fall.

The summary of matches:-

115-pound class—H. L. Bone, Tech, won from J. Losero, Y. M. C. A., in 1 min. 55 sec.

125-pound class—D. H. Stelshina, Tech, threw S. Soto in 12 min. 55 sec., with a half-Nelson and body hold.

135-pound class—C. H. Durkee, Tech, won from T. Morse, Y. M. C. A., with a head hold and arm scissors in 11 min. 30 sec.

150-pound class—Berger, Tech, threw C. Ray, Y. M. C. A., in 10 min. 45 sec.

158-pound class—C. A. Blakney, Tech, threw J. Osborno, Y. M. C. A., with a body and arm hold; time was 4 min.

160-pound class—D. B. Goodell, Tech, threw L. Young, Y. M. C. A., in 11 min. 30 sec.

165-pound class—E. B. Goodell, Tech, threw R. Clark of the Y. M. C. A., in 9 min. 3 sec.

Heavyweight class—A. D. Taylor, Y. M. C. A., threw C. R. Crowell, Tech, in 10 min. 25 sec., with a head hold.

The smoker of the Senior Class at the college was held on Saturday, according to the daily II-

Boston Scientific Society Invites Tech Men To Hear Dr. E. H. Slack.

Advanced students of the course of Biology and Public Health, together with members of the Co-operative School for Health Officers have been invited by the president of the Boston Scientific Society to attend the meeting of Tuesday evening. Dr. E. H. Slack, secretary of the Boston Health Department, will speak about the great steps that have been taken by sanitarians in controlling disease.

Dr. Slack has been head of the Bacteriological Laboratory of the Health Board, and in past years has been one of the special lecturers in Prof. Sedgewick’s department. The Boston Scientific Society cordially invites any other students at the Institute who may be interested in the subject. The meeting will be held at 8 o'clock at 385 Boylston street, Copley square.

BANJO CLUB

On Tuesday afternoon the Banjo Club will hold its regular rehearsal at 5 o'clock in 26 Lowell. All members must be present as the complimentary tickets for the Winter Concert will be given out at that time to the men who have paid their dues. All members absent will be barred from playing in the concert, and the manager will be on hand to receive all dues.

BILOGICAL RESEARCH

(Continued from page 1.)

happiness can never be attained on the basis of material wealth, since population, increasing as it does in geometric progression, will always press upon the food supply, which increases simply in arithmetic progression. The theory has claimed wide attention among biologists, in view of the fact that Darwin was led by consideration of it to his famous deductions with regard to the struggle for existence, which is largely a result of a curtailed food supply; but on this side of of the water the doctrine has had mainly a theoretical interest, since its application to the human species has never seriously threatened. America has been the “new” world, with always plenty of room for expansion into fertile regions where danger from crop failures was small, and danger from actual famine practically nil.

At the present time, however, after paths into the West have been paths into the West have been turned back upon itself. The people are becoming massed into great cities, and the ratio of those entangled rather in food consumption than food production to the producers of edibles becomes increasingly large. Population may double it-

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THE TECH, BOSTON, MASS., DECEMBER 8, 1911

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BIOLOGICAL RESEARCH
(Continued from page 3.)

Once so common on our tables and in the markets, has all but disappeared. With fish the case is qualitatively similar. Lobsters, clams, oysters, cod, haddock, and other sea-food animals are fewer in number than ever before, some being two or three times as expensive as they were twenty years ago, and some being practically non-existent, except where specially cultivated.

In the matter of exports in staple foods, the case is much the same. Conditions, as in such articles as corn, wheat, beef, and the like, are rapidly diminishing. In this regard, however, a fact of extreme significance is to be noted. Our exports of manufactured goods are constantly increasing—a fact which indicates that the character of this country is slowly changing, that an agricultural nation, producing food in abundance, is becoming a manufacturing nation, with heavy consumption, and comparatively little production of foodstuffs. Another indication of this metamorphosis is the previously mentioned missing of cities as our population, and the gradual flow of young men from the rural to the urban sections of the country. A flow which lessens the production of foods, even though it does not increase demand for it. Conditions of extreme want, such as exist at times in China and in some countries of Europe, of course not been reached, but the tendency of such conditions is strong, and their prevalence, if nothing is done to prevent the full outworking of the forces now in operation, will be a question of time. Three great checks, however, are in operation: improved transportation, the art of canning, and cold storage. Transportation and its development are subjects which we all know. That the art of canning was brought into being about 1810 by the French technicians is correct. Apples and other fruits were the first canning operations were started about 1820 by William Underwood of this city. It is interesting to note that his descendant, through the W. Lyman Underwood Co., are still engaged in this business. Mr. Underwood is at the present time a special lecturer in the Biological Department. He has engaged much research work, especially with reference to the relations between insects and disease transmission, in which he is more especially distinguished.

Cold storage, the third of the checks which are holding Malthusianism at bay, is the most recently developed among them. The principles of cold storage have been known for centuries, but it is only within the last generation that their application has become of sufficient importance or extent to be considered a factor in food questions. The importance of these three processes will be realized only if one paves to contemplate the enormous quantities of food-stuffs which are preserved by canning and by cold storage methods, and upon the case and rapidity with which these supplies may be transferred by rail and water from any part of the country to any other.

We must not feel too secure, however, for the mere existence of these preventative possibilities. Their application to actual conditions must be understood, and any attempt to study the economic aspects of such application will demonstrate that this is itself a great problem. A poverty-stricken country, for instance, would find great difficulty in meeting a famine. Ireland starved with wealthy England close by her. Food has been exported from parts of China while other parts were suffering direst want. Wealth widely distributed on the other hand, would enable any land to provide food for others to tide it over a famine, so that the food problem is seen to have largely an economic basis, and this combination of economic, social and biological conditions serves to render the problem of famine hopelessly complicated. The advantages which biological science could lay at the feet of a people threatened with starvation would be of no avail in the absence of means to pay for them.

The one conclusion to which we are inevitably forced is that good food can be wasted. It will not cost time possible for all to enjoy equal privileges: foods must be graded according to the prices arranged to fit the variation in the sizes of purses—a variation which, however much to be deplored, will have to be dealt with as a fact. Food must be of good and wholesome quality, but the poor must be content with a lower “grade” than the rich are able to afford.

“Meanwhile we must encourage in every possible way, intensive agriculture, conservation, and cold storage production. Cheap and abundant food is the cornerstone of a prosperous and healthy people. With such food civilization may or may not reach high levels, but without it the best civilizations cannot long endure.”

FACULTY NOTICE

The exercises of the Institute will be suspended during Christmas week, from December 22d to December 27th, inclusive.

By vote of the Faculty, Instructors are requested to send to the Dean the names of all students absent from exercises on Saturday, December 20th, and on Monday, December 29th.

A. L. MERRILL, Secretary

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