

OFFICERS ELECTED BY MINNESOTAS WEDNESDAY

Hammond Is Chairman—Johnston Secretary

Last Wednesday afternoon in Walker Memorial, the Minnesota Club held its first meeting when the members elected officers and made plans for the future. About fifteen men were present and arrangements were made to drive for members. Suggestions as to dances and banquets were considered.

The next meeting is planned to be held soon after the beginning of the second term. Cards will be sent out to all men entered in the directory as from Minnesota. In addition there was consideration of communicating with the Minnesota Club of Harvard in hopes of arranging joint entertainments or the like.

The officers as elected Wednesday are: Norris Johnston '24, Secretary, and H. R. Hammond '23, Chairman.

MUSICAL RECITAL GIVEN TOMORROW

(Continued from Page 1)

There is no admission fee to the recital. The time of 2 o'clock was chosen after some discussion as an experiment, no other time being convenient for so great a number of those who might wish to attend. The recital will last about an hour and a quarter. Through the courtesy of Mr. Mason, of the Mason and Hamlin Company, a concert grand piano will be provided for the occasion.

- The program will be as follows:
- Sonata in G Minor, for Violin and Piano—Grieg
 - Lento doloroso—Allegro vivace
 - Allegretto tranquillo
 - Allegro animato
 - MR. GRIFFITH AND MRS. ROSS
 - Nocturne—Debussy
 - Concert Etude—Whiting
 - MRS. ROSS
 - Ballet Music, from Rosamundo—Schubert-Kreisler
 - Berceuse Ecossaise—Schwab
 - Ballade—Foote
 - MR. GRIFFITH
 - Poem, No. 111 (after Omar Khayyam)—Foote
 - Waltz, op. 34, No. 1—Moszkowski
 - MRS. ROSS
 - Chanson Arabe, from Scheherazade—Rimsky-Korsakoff-Kreisler
 - Tarantella, from Suite, op. 25—Cui
 - MR. GRIFFITH

THIRD SOUTH AMERICAN LECTURE BY RICE TODAY

Will Speak at Lowell Institute on Exploration

Dr. A. Hamilton Rice will deliver the third of his series of six lectures on Journeys and Explorations in Tropical South America in Huntington Hall, 491 Boylston Street, at 5 o'clock this afternoon. The lecture today will deal chiefly with explorations.

The second lecture was delivered last Tuesday by Dr. Rice, who is well qualified to speak on his subject by his training and his work in South America. In this lecture he gave a short sketch of the history of South America and told how it was related to his subject.

The doors of the lecture hall will be opened at 4:30 o'clock, but will be closed at 5 o'clock and remain so throughout the lecture. Tickets, which are free, may be obtained by mail from the curator of the Lowell Institute, 491 Boylston, by sending a stamped, addressed envelope for each ticket desired.

PROMINENT ALUMNI SPEAKS AT BANQUET

(Continued from Page 1)

ogy is brought before many possible students.

Dean H. P. Talbot '85, remarked on the balance between aristocracy and work as set forth by E. M. Hopkins, president of Dartmouth College. H. E. Lobdell '17, and C. F. Lyman, spoke on the Engineering College Magazines Associated. Professor H. G. Pearson discussed the activities about the Institute.

I. W. Litchfield '85, gave a history of activities and commented on the needs filled by the point system. It seems that for once in his life he was absolutely serious and devoid of jokes. This failure to contribute to the lighter side of the banquet was occasioned, on the part of his friends present, no small degree of concern as to the state of Mr. Litchfield's health.

Successful Candidates Announced

The names of those candidates who have been elected to the staff was announced before the close of the banquet. The managing board expressed the feeling that the competition had measured up to the established standard. Those who were elected are herewith listed: J. L. Cassidy '26, J. O. Crawford '26, H. W. Culp '26, C. A. Harrison '26, Howard Humphrey '26, H. D. Kinsey G. R. LeClercq '24, W. H. MacCallum, Jr. '24, J. L. Ostberg '26, B. P. Richardson, Jr. '26, F. P. Romano '26, A. M. Sharp '26, and R. E. Smith '26.

The Tech Engineering News Orchestra furnished the music for the occasion; and C. F. Lyman demonstrated his pianistic abilities.

COMMUNICATION

To the Editor of THE TECH:

Tech men interested in rowing need not worry so much about formal races with their neighbors in Old Cambridge. But they should keep after the management and officers of the Tech Boat Club to the end that rowing machines and heavier taller men be assembled at the Boathouse by mid-January at the latest instead of February. Practice makes perfect and men of the weight needed for the Varsity and freshman boats need practice and plenty of it while the river is still a skating rink. There are many faults that can and should be corrected while candidates are practicing indoors. Tech crews have a fairly full schedule already, whether a formal race with Harvard develops or not. The Varsity crew should average well over 170 and the freshman boat should be close to 170 lbs. Men answering these qualifications are among you. Will you see to it that they are told of Tech's needs and that machines are available on which they can be taught the rudiments at the earliest possible moment in the new year?

(Signed) COACH STEVENS

UNITARIAN LEAGUE HOLDS FIRST DINNER THIS YEAR

Talks Given by Mr. W. M. Ross and Prof. S. C. Prescott '94

The Technology Chapter of the Unitarian Laymen's League held its first informal supper of the year Wednesday evening at Unity House, 7 Park Square, Boston. After an enjoyable repast, the members listened to a talk by Professor Prescott, of the Department of Biology and Public Health, on "Food Engineering."

"There is general need for the application of scientific principles to the packing, preserving and transportation of foodstuffs," Prof. S. C. Prescott '94, said, "and men well trained in this direction will find a ready reception in the industry. A discussion followed the talk, in which the members told of their observations in regard to the production of foodstuffs and listened to Prof. Prescott's comments.

Mr. W. M. Ross, general secretary of the T. C. A., spoke of the general good accomplished in student work by such clubs as this one, and heartily endorsed the plans to carry on an active winter schedule of meetings.

The success of this first supper led to the decision to hold such gatherings each month. The second supper will be about the middle of January, and all students, whether Unitarians or not, who desire to affiliate themselves with the organization should communicate with Dudley Moore '23.

CONFERENCES SET NEXT WEEK FOR TREASURERS

Men Confer Individually With Finance Committee

Treasurers of the organizations listed below are requested to report at the office of the Finance Committee, room 305 Walker, at 1 o'clock tomorrow or at 5 o'clock any afternoon next week except Saturday for the purpose of individual conferences with the committee. The committee also makes the announcement that the custom of assessing a fine of one dollar for not having the report in on time will be revived next term.

The following are the organizations whose treasurers are asked to report: Aero Society, Architectural Society, Army Ordnance, Benchmark, British Empire Club, California Club, Chauncy Hall Club, Chemical Society, Chess Club, Chinese Club, Civil Engineering Society, Class of 1926, Cosmopolitan Club, Latin American Club, Masonic Club, Menorah Society, M. I. T. A. A., Naval Architectural Society, Outing Club, Press Association, Radio Society, Rifle Club, and Speakers' Club.

BOSTON COSMOPOLITAN CLUBS WILL MEET HERE

The second meeting of the Federated Cosmopolitan Clubs of Greater Boston will be held in north hall, Walker Memorial, next Sunday evening at 7:30 o'clock. This is the first time that the organization, which has clubs at Wellesley, Harvard, and Boston University as well as at Technology, has met at the Institute this year, and the entertainment committee is endeavoring to make it a success. Music will be furnished by F. S. Hua '23, C. S. Lee '24, and S. Y. Chang '25, on Chinese string instruments. Refreshments will be served.

There will be a meeting of the executive committee of the Federation in north hall, Walker Memorial, at 4:30 o'clock Sunday afternoon, preceding the club meeting.

Football players of the University of Cincinnati have agreed not to shave until they win a game. The luxurious growth upon their faces does not speak well for their record of victories.

M. I. T. RADIO SOCIETY HOLDS SECOND MEETING

Radio Frequency Amplification Is Discussed by Mr. C. H. Dallin

Last Wednesday evening the M. I. T. Radio Society held its second meeting of the year, in room 5-330. Radio frequency amplification was the main subject of discussion.

A movie comedy was shown first, after which J. K. Clapp '23, vice-president, gave a general report of conditions at the society's station 1XM. Although the station has been handicapped recently by having only one power tube, good work has been done. The special schedules for the Transatlantic Tests have arrived, and more operators are needed to handle this work.

Next Term's Plans Announced

President A. K. Whitaker '23, reported that two trips were planned for next term. He also mentioned a communication from the radio society of the New York City College, who wish to establish an intercollegiate relay league.

The talk on radio frequency amplification was given by Mr. C. H. Dallin of the Acme Apparatus Company. He discussed regeneration, from the standpoint that it is a means of reducing resistance of the circuit to zero. He then showed how radio frequency amplification not only reduces the resistance of the secondary circuit, but also adds amplification.

Tells Results Obtained

The difficulties to be overcome in operating a multi-stage radio frequency amplifier were next discussed. Two methods of stopping self-oscillation of the tubes were described. First, the resonance points of the different transformers may be staggered, and the other method is to wind the secondaries of the transformers with high resistance wire, which does not decrease the efficiency of the transformer.

Some figures on the results obtained by radio frequency were given by Mr. Dallin. Three stages of radio frequency amplification with a crystal detector give an amplification of 1500 times, while the amplification of a standard regenerative set and two step amplifier is only about 80.

Mr. Dallin's talk was followed by a general discussion of the subject. The meeting ended with the showing of a second reel of movies.

PROF. PERRIN OF B. U. TO ADDRESS MASONIC CLUB

Professor M. L. Perrin, the head of the Department of Languages of Boston University, will be the speaker at the next meeting of the Masonic Club, which is to be held in the north hall of Walker Memorial next Wednesday at 6:30 o'clock. Professor Perrin will include in his address matter which makes it necessary to exclude from the meeting all who are not master masons. Musical entertainment will be furnished.

OPPORTUNITIES IN CIVIL ENGINEERING

(Continued from Page 2)

ful. He must have, in addition, high character, good judgment, vision and ability to direct others, if in addition to having these qualities he is industrious and blessed with good health his success should be assured.

SANITARY ENGINEERING

Sanitary engineering may be considered to be a special branch of civil engineering in which particular attention is given to the class of problems which arise in connection with the purification of water, the disposal of sewage and generally speaking to matters relating to public health. The course in sanitary engineering as given at Technology includes the fundamental professional subjects given in the civil engineering course, slightly reduced in time in some cases, and includes also a considerable amount of training in chemical, bacteriological and biological lines in place of electrical engineering and certain other subjects required of the civil engineer. The course is somewhat broader than the civil engineering course, and its graduates are prepared to enter into an even wider field of activity owing to this greater breadth. The demand for sanitary engineers has been far greater than the supply in recent years, and graduates of this course have found no difficulty in securing good positions either along the same lines as the civil engineering graduate, or with private engineers specializing along sanitary engineering lines, public health authorities, and organizations such as the Rockefeller Foundation and the Red Cross Society. Moreover the training is more individual owing to the limited number of students taking the course.

The student planning to enter this course should have the same aptitude for mathematical subjects as the civil engineer and should also have a liking for chemistry.

MANY FORMER STAFF MEMBERS AT BANQUET

(Continued from Page 1) writing on the first volume, concluding his remarks by passing around the tables the complete volume, together with an old Institute catalogue and the notes of a former course on "Coal as a Source of Warmth."

Dean Talbot Expresses Appreciation

The next speaker, I. W. Litchfield '85, Treasurer of Volumes I and II, told of many of the more humorous incidents connected with the paper and the Institute of old.

W. B. Snow '82, member of the Board of Directors of Volume I, gave a short talk on the work of the men who started the paper. He was followed by J. P. Munroe '82, Secretary of the Corporation, who told the men of the work of President Rogers and President Walker in founding the Institute.

The next three speakers were G. O. Draper '87, of Volume VI, F. W. Hobbs '89, President of Volume VIII, and Dr. J. T. Greeley '89, Editor-in-Chief of Volume VII. Dean H. P. Talbot '85, expressed his interest and appreciation of the work done by the Institute publications.

Mr. C. W. Stow, the Managing Editor of the Christian Science Monitor, next gave a short talk on the advisability of men on the staff continuing their newspaper work after leaving the Institute. R. W. Chandler '12, General Manager of Volume XXXI, was next introduced and he was followed by H. E. Lobdell '17, Assistant Dean and General Manager of Volume XXXVI, who concluded the speech with an interesting account of The Spectrum, the first Institute publication.

After a few concluding remarks by the toastmaster, the affair ended by the traditional singing of the Stein song.

TEA TO BE GIVEN FOR COL. F. W. PHISTERER

The officers of the Military Science Department and their wives are giving a tea to the Professors of the Institute and their wives for the purpose of meeting Colonel and Mrs. Frederick W. Phisterer. Colonel Phisterer is the new head of the Military Science Department, to which position he was appointed about two weeks ago. The tea is to be given in the Emma Rogers Room on the afternoon of Tuesday, December 12, from 4 to 6 o'clock.

KENTUCKY CLUB FORMED AND PLANS DECIDED UPON

Next Meeting to Be Held Sunday December 10

Meeting last Sunday for the first time the Kentucky Club was organized and plans laid out for the coming year. Temporary officers were elected to assume the duties of organization and the constitution, which had already been drawn up, was voted upon. Nearly all of the men from the Blue Grass State were present and the plans of the future of the club were discussed enthusiastically. The next meeting at which permanent officers will be elected and to which it will be to the interest of every Kentuckian to come, will be held next Sunday, December 10, at 3 o'clock in suite 21, 831 Massachusetts Ave.

For the past few years the number of Kentucky students at Technology has steadily increased until at the present time they believed that an organization representing them officially at the Institute would aid them to further the interests of Technology as well as their own. The club has therefore been formed on this basis and hopes to be able to accomplish a great deal during its first year. Dances, talks by prominent visiting Kentuckians and other forms of entertainment are on the program for the coming terms.

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