

NOTED CHEMIST PRESENTS ALDRED LECTURE FRIDAY

"Fixation of Nitrogen" Chosen
By Dr. F. G. Cottrell For
His Subject

SPEAKER IS INVENTOR
OF IMPORTANT PROCESS

Discovered Means for Abating
Fume Nuisance in
Smelters

Dr. F. G. Cottrell, considered one of the foremost chemists of the United States, will give the Aldred Lecture in room 10-250 Friday at 3 o'clock. His subject will be "Fixation of Nitrogen." He is at present Chairman of the Division of Chemistry and Chemical Technology of the National Research Council and is widely known in the fields of mining and metallurgy through his connections with the Bureau of Mines and the "Cottrell Patents."

Born in California

Dr. Cottrell discovered a method for the electrical precipitation of smokes. Fumes, especially those from foundries and smelters, had formed a great nuisance and many firms were confronted with law suits as a result of the damage done by the fumes. With Dr. Cottrell's invention it not only was possible to abate this nuisance but also to recover valuable products from the fumes. He also invented the only improvement discovered in 30 years for the laboratory apparatus used in determining the boiling points of solutions.

The speaker was born in Oakland, California, in 1877. He attended Grammar and High Schools here and then entered the University of California where he received the Degree of Bachelor of Science. He then went abroad

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JAGGAR SPEAKS ON TOKIO EARTHQUAKE

Regularity of Recurrence of
Volcanic Disturbances
Discussed

Professor T. A. Jaggar, Jr., Director of the Hawaiian Volcanic Observatory and former professor of geology at the Institute, gave an illustrated talk on "The Tokio Earthquake" in room 5-330 last Monday. He began with recent discoveries about earthquakes, and went on to tell about the recent Japanese disaster.

Motion Pictures Shown

In his work in Hawaii, Professor Jaggar said, he has made discoveries which may lead to the evolution of a method of forecasting earthquakes. He has found that in Hawaii the earthquakes bear a definite relation to volcanic action, and a famous Japanese seismographist who recently died published similar discoveries just before his death.

The motion pictures shown were taken by a Japanese photographer on the scene of the tragedy, just after the first disturbance. They showed the crowds of refugees, the flames and smoke, and the ruins of buildings, a peculiar fact being that while the brick buildings tumbled to the ground, those of reinforced concrete for the most part remained standing.

Speaks Today

A large section of the bottom of the harbor of Tokio dropped 900 feet, Professor Jaggar said, while the shore along the coast rose several feet.

Professor Jaggar will speak again in room 5-330 at 4 o'clock today on "Rhythmic Action in Volcanoes." The talk will be illustrated with slides.

Examination Change

The Registrar announces the following room changes for the Chemistry 5.02 examination.

Sections 1-8	Prof. Phelan
Room 3-410	
Sections 9-24	Prof. Mueller
A-L	Room 3-440
M-Z	Room 3-460

REGISTRATION MATTER IS READY TOMORROW

Freshmen To Obtain Cards in
Chemistry Laboratory

Registration material will be ready tomorrow, announces Registrar J. C. MacKinnon, and all but freshmen will obtain theirs in the main lobby some time tomorrow. Registration material for freshmen will be distributed in the chemistry laboratories during the usual laboratory periods this week, except in the case of freshmen who do not take chemistry. The latter may obtain their registration material tomorrow at Professor Edward Mueller's office, room 4-256.

Cards must be returned to the office of the Registrar before 5 o'clock on Friday, March 7, and tuition fees must be paid before 1 o'clock Saturday, March 15, in order to avoid the \$5 fine. Although the purpose of the fines is to insure promptness, and not to obtain money, it is expected that, as usual, the fines will enrich the Institute to a considerable extent.

The third term begins on Wednesday, March 19, and as the regular examinations are all over by March 12, almost a full week of vacation is allowed. Registration will proceed about the same as last term; March 19th students will call for approved registration cards, and exchange them for class and roll cards. Classes will begin on March 20.

NEW SCHOLARSHIP FUND ESTABLISHED

Income From \$10,000 Available
For Research Work in
"Sugar Technology"

President S. W. Stratton yesterday announced that a new endowed scholarship had been established at the Institute. Mrs. Caroline A. Verges, in memory of her stepson, L. F. Verges '91, has given the Institute \$10,000, the income from which is to be used for a Graduate Scholarship in "Sugar Technology" or, in default of a candidate in this field, it is to be used for an undergraduate scholarship in Civil Engineering.

Died in 1910

L. F. Verges, in whose memory the scholarship is given, graduated from the Civil Engineering Course in 1891. He assisted his father in the management of the latter's sugar interests in Porto Rico and introduced many improvements in the sugar industry there. He was responsible for the introduction of modern methods for evaporating under vacuum and betterments in sugar house practice, including chemical control, which had not yet been introduced to the island. He died December 10, 1910.

If a candidate receives the scholarship for Graduate work in "Sugar Technology" there is no definite limitation to the period for which he may retain it. If, however, no candidate appears in this field and it goes to a candidate in Civil Engineering, it is obtainable only for the regular four year course. The fund will be administered by the Faculty Committee on Scholarships, and application should be made to this committee.

CHEMISTS IN MEETING WITH HARVARD SOCIETY

Professor T. W. Richards and E.
B. Millard to Give Talks

Instead of meeting in Walker, as was done last year, the Chemical Society and the Boylston Chemical Society of Harvard will hold their joint meeting in Boylston Hall, Harvard, on Tuesday evening at 8 o'clock. There will be two speakers, Professor T. W. Richards, head of the Chemistry Department at Harvard and Professor E. B. Millard, of the department of Physical Chemistry and the division of Industrial Cooperation and Research at the Institute.

Professor Millard who has acted as consulting chemist for some of the leading Boston stores, will speak on "Department Store Chemistry." His talk will cover largely the chemistry of different textiles. Professor Richards, internationally known for his work in the determination of atomic weights for which he received the Nobel prize a few years ago, will give a discussion on "Atomic Compressibilities."

GENERAL PATRICK SPEAKS TOMORROW

Chief of Army Air Service to
Address Student Body
in Room 5-330

Through the efforts of President Stratton and the program committee of the Aeronautical Engineering Society, Major-General Mason M. Patrick, Chief of the United States Air Service, will address the student body at a meeting at which the President will preside in room 5-330 at 4 o'clock tomorrow afternoon. His address will be on the "Policies and Developments of the Air Service" and will be illustrated by official motion pictures.

Arrangements for a students' meeting were made as soon as it was known that General Patrick would visit Boston on his tour of inspection of the Army Air Bases. He has just lately returned from the Hawaiian Islands and the Canal Zone and his talk will treat of the air defence of these strategic points.

Since all the Air Service is immediately under the General's surveillance, it is expected that he will speak on the experiments that have been carried out at McCook field. This part of the address will include a description of the work with helicopters, giant bombers, gliders, altitude airplanes and motors, along with some details of smoke screen work. The motion pictures will give some interesting close-ups of this phase of the service.

General Patrick has an enviable record of promotion as an Army officer. Before the war he was a colonel in the Engineers. At the outset of the war he was made chief of the overseas air service. Following the end of the war with the signing of the Armistice he took up the position of assistant chief of the Engineers in Washington. In 1922 he took the place of General Menoche, former chief of the air service. Since being in this office he has qualified as a pilot although being a man over 60 years of age.

T. C. A. NOMINATING BOARD CHOSEN TODAY

At today's meeting of the T.C.A. executive committee the President will appoint a nominating committee of three to bring in nominations for next year's officers. According to the constitution of the organization the elections will take place before April 1.

Sunday the executive committee met, and discussed whether the work of the T.C.A. would be made more efficient by a reorganization of some of the departments. No action was taken, and the committee will report its findings at a later date. The T.C.A. Cabinet is at present composed of 21 men representing 18 departments.

ARCHITECT'S VISIT 'DANTE'S INFERNO'

Technology and Harvard Architects took a trip through the Inferno Regions Monday night at Rogers in the second annual Fete Chariot held by the two schools. The decorations and costumes were taken from Dante's Inferno, a novel idea of the Ecole de Beaux Arts in Paris, and were quite as successful here.

Entrance to the regions was attained only through the Mouth of Hell, which was capotied and acted more or less as a lure for the unthinking one, and many a heart quaked as the yawning furnaces belched fire at every turn of the tortuous path. After the Hall of Darkness had been left behind and a flight of stairs mounted, the Great Hall of the Inferno was reached. It was here that the wild and eerie music resounded against the fiery walls and along the filmy festoons and jagged stalagmites, and beneath the hardly Devil himself grinned at the antics of his guests. Dante himself was there and ever and anon one caught a glimpse of the Angel—was it Beatrice?—with someone in tow on another tour of inspection.

The costumes were, for the most part, quite in order. It is true that Dante was rather surprised and astounded to see some of them, for on his previous trip as a reporter, he failed to recall anything of the sort, but he admitted that the times have changed. There were two ladies' prizes awarded, the first going to Miss Mary Seager,

Dr. Stratton Favors Tech Night Action

"The Institute Committee acted very wisely in abolishing Tech Night. I am certain some substitute will be found which will prove a very interesting event. President Robinson of the Senior Class made a very able and interesting presentation of the Institute Committee's action to the Alumni Council."

TEA DANCE GIVEN FOR BENEFIT OF ATHLETICS

The Walker Memorial Committee has announced a Tea Dance to be held Saturday for the benefit of athletics at Technology.

The dance is to begin at three o'clock and last until six. Music will be furnished by Johnson's Syncopators, a 15 piece orchestra. This is one of the largest orchestras which has ever played for an Institute affair.

The price of the tickets is \$1.50 per couple. These tickets may be obtained from members of the Walker Memorial Committee and from members of the various athletics teams.

T. E. N. TO REDUCE PRICE NEXT ISSUE

Results of Questionnaire Sent To
Students Announced

At the meeting of the T.E.N. Managing Board Monday, it was decided to reduce the price of T.E.N. from 25 to 15 cents, as the result of the questionnaires which were sent out to the entire student body.

Out of approximately 2700 cards sent out, 544 had been received up to last night, and it is on these returns that the officers made their decision. This reduced price is to be tried for the remainder of the year, and if the subscriptions are enough to pay the expenses, this price will be continued.

The Advisory Council on Publications has given its consent to the reduction in price, permission having been received yesterday morning. This will allow the next issue to go on sale at the price of 15 cents.

Because of this reduction, there will be eight and one-third cents on every issue due to those who purchased the subscription cards at the beginning of the year. This money will be refunded in the main lobby, March 3 and 4, when the T.E.N. for March will go on sale. Everyone having a subscription card will, on surrendering the same to be stamped, receive 25 cents.

Those students having mail subscriptions may, on applying at the T.E.N. office in the basement in Walker, receive their 25 cents which now exceeds the subscription price.

WALKER SCENE OF ALUMNI COUNCIL DINNER MEETING

Talks by President Stratton and
Senior Class Head Are
Features

INSTITUTE COMMITTEE
ACTION IS EXPLAINED

President Stratton Announces
Purchase of Additional
Land Assured

A talk by W. H. Robinson, Jr., President of the Class of 1924 explaining the action of the Institute Committee in abolishing Tech Night, featured the meeting and dinner of the Alumni Council held last night in Walker. The usual salad oration was replaced by an illustrated lecture given by Professor W. S. Hutchinson '92 of the Mining Department on "The Summer Camp at Dover, New Jersey," and this was followed by a presentation of the film which the Executive Secretary is now showing at meetings of the local clubs which he visits.

Talk on University Club

An informal report was presented by the treasurer showing an estimated deficit for the year amounting to \$5250. President Gilmore commented on this by calling attention to the fact that out of an alumni body of more than 18,000 there were only about 5,200 members paying dues at this time and stressed the importance of interesting more graduates and former students in active membership in the Association each year. President Gilmore also announced that the Executive Committee was in favor of increasing the dues to \$5 per year for classes five or more years out of the Institute.

J. W. Powell, Chairman of the New University Club of Boston, presented a talk outlining the advantages to Technology men in joining this new organization, especially as there is no Technology Club in existence in Boston. He announced that to date only a little over 200 men had applied for membership out of a quota of 600.

President Stratton Speaks

He was followed by President Robinson of the Senior Class who told of the Institute Committee's action in accepting the report of the Joint Field Day Committee which provides for a somewhat changed Field Day program and does not include the theater party. He also announced that the Class of 1924 had just voted to launch an endowment drive similar to the one inaugurated by the Class of 1923 and that the class hopes to have a large percentage.

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DWIGHT BRIGHAM TALKS TO THE SPEAKERS CLUB

Dwight Brigham, first to the Presidency of the Union and State Railroad, addressed the Speakers Club at its meeting in room 10-250 last night at 5 o'clock, on "The Proposed Consolidation of the New England Railroads." A large audience attended the meeting and discussion and questions followed the talk of Mr. Brigham.

A brief outline of railroad development was given and the consolidation of trunk lines discussed in two ways, first of western and eastern lines and second, of New England lines. Mr. Brigham was opposed to the first plan discussed.

There will be a meeting of the Speakers Club next Tuesday at 5 o'clock in room 10-250, at which time the remainder of the constitution of the club will be studied if a decision can be reached.

CALENDAR

Wednesday, February 27	Continued Professors' Societies Smoker, main hall, Walker.
Thursday, February 28	Continued W. S. Hutchinson '92, 10-250.
Friday, February 29	Continued W. S. Hutchinson '92, 10-250.
Saturday, March 1	Continued W. S. Hutchinson '92, 10-250.
Sunday, March 2	Continued W. S. Hutchinson '92, 10-250.
Monday, March 3	Continued W. S. Hutchinson '92, 10-250.
Tuesday, March 4	Continued W. S. Hutchinson '92, 10-250.
Wednesday, March 5	Continued W. S. Hutchinson '92, 10-250.
Thursday, March 6	Continued W. S. Hutchinson '92, 10-250.
Friday, March 7	Continued W. S. Hutchinson '92, 10-250.
Saturday, March 8	Continued W. S. Hutchinson '92, 10-250.
Sunday, March 9	Continued W. S. Hutchinson '92, 10-250.
Monday, March 10	Continued W. S. Hutchinson '92, 10-250.
Tuesday, March 11	Continued W. S. Hutchinson '92, 10-250.
Wednesday, March 12	Continued W. S. Hutchinson '92, 10-250.
Thursday, March 13	Continued W. S. Hutchinson '92, 10-250.
Friday, March 14	Continued W. S. Hutchinson '92, 10-250.
Saturday, March 15	Continued W. S. Hutchinson '92, 10-250.
Sunday, March 16	Continued W. S. Hutchinson '92, 10-250.
Monday, March 17	Continued W. S. Hutchinson '92, 10-250.
Tuesday, March 18	Continued W. S. Hutchinson '92, 10-250.
Wednesday, March 19	Continued W. S. Hutchinson '92, 10-250.
Thursday, March 20	Continued W. S. Hutchinson '92, 10-250.
Friday, March 21	Continued W. S. Hutchinson '92, 10-250.
Saturday, March 22	Continued W. S. Hutchinson '92, 10-250.
Sunday, March 23	Continued W. S. Hutchinson '92, 10-250.
Monday, March 24	Continued W. S. Hutchinson '92, 10-250.
Tuesday, March 25	Continued W. S. Hutchinson '92, 10-250.
Wednesday, March 26	Continued W. S. Hutchinson '92, 10-250.
Thursday, March 27	Continued W. S. Hutchinson '92, 10-250.
Friday, March 28	Continued W. S. Hutchinson '92, 10-250.
Saturday, March 29	Continued W. S. Hutchinson '92, 10-250.
Sunday, March 30	Continued W. S. Hutchinson '92, 10-250.
Monday, March 31	Continued W. S. Hutchinson '92, 10-250.