General Convocation

President Maclaurin to answer questions on Tech-Harvard agreement.

A general convocation of students will be held tomorrow noon at 1:30 P.M. in Huntington Hall. President Maclaurin will give a short address on the Harvard-Technology alliance, which will be followed by a question and answer period. Students are invited to ask questions, and the President will be ready to answer them.

The meeting will be held tomorrow noon at 1:30 P.M. in Huntington Hall.

President Maclaurin will present the agreement between the Institute and Harvard University to the students for discussion.

In this agreement, the "Institute" means the Massachusetts Institute of Technology, and the "University" means Harvard University. It is understood that any action of the President and Fellows of Harvard College shall require the consent of the Board of Overseers wherever such consent is necessary under the laws governing the University.

I. The University and the Institute shall be unaffected in name, organization, title to and rights over property, or any other way not specifically mentioned in this agreement.

II. The University and the Institute shall cooperate in the conduct of courses leading to degrees in Mechanical, Electrical, Civil, and Sanitary Engineering, Mining and Metallurgy, and in the promotion of research in these fields. The courses and research shall be conducted in accordance with the provisions of this agreement.

The amount of fees for partial courses and for research shall be determined as may be agreed upon from time to time.

III. Subject to the reservations hereinafter set forth, the University shall devote to the purposes referred to in Section II the net income of all funds that are credited to its books by the Institute.

For this purpose, the University shall use all machinery, instruments, and equipment that are suited to these purposes and that the University does not in its opinion need more urgently for other purposes; also not less than three-fifths of the net income of the Gordon McKay Endowment; also the income of all property that it may acquire hereafter for the promotion of education or research in the branches of Applied Science referred to in Section II; also such further sums as it may from time to time feel able to contribute.

IV. Subject to the reservations hereinafter set forth, the Institute shall devote to the purposes referred to in Section II all funds, or the income of all funds, that it now holds or hereafter acquires for the promotion of education or research in the branches of Applied Science mentioned in that section, and in addition to this as much of the funds, or the income of the funds, that it deems necessary to its general purposes as is not in its opinion more urgently required for other purposes.

V. Students for courses in the branches of Applied Science mentioned in Section II shall be devoted to the purposes referred to in that section. These fees shall for the first five years be as follows: $325 a year for all courses leading to degrees of the first and second years of the Institute and $375 a year for all other students pursuing courses in the subjects referred to in Section II in the University's Graduate Schools of Applied Science, respectively, during the year 1913-14.

VI. The funds available for education and research in the branches of Applied Science referred to in Section II shall be expended through the Bancroft of the Institute in the payment of salaries, the maintenance of scholars, the care of grounds, and the erection and maintenance of buildings and equipment or otherwise as may be agreed upon from time to time. It being expressly provided for all proposed appropriations shall be approved by the Corporation that supplies the funds, and that holdings shall be erected only from the share of the funds supplied by the Institute.

VII. All members of the Institute Staff in the departments of Mechanical, Electrical, Civil, and Sanitary Engineering (Continued on page 3)

The TECH Club doesn't have to go far to shoot those North Georgia Aggies.
THE TECH

Published daily, except Sunday, during the academic year by students of Massachusetts Institute of Technology.

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TUESDAY, JANUARY 13, 1914

In Charge of This Issue:
Editor-P. W. McNeill '15
Assistant-R. B. Stringfield '16, J. G. Fairfield '16

The conversion to be held tomorrow is just what is needed to clear up the conflicting ideas which are afforded controversy by the exact meaning of the agreement between Harvard and the way in which the agreement will work out. It is unnecessary to urge all to attend, each one should be ready to put at least one sense into the observation, so that the observable points may be cleared up in the short time available.

Whether or not THE TECH will be issued during the rest of the week will depend upon the amount of available news matter. Usually we are able to run during the week before exams and one or two days at the week during which the exams start; but this term there seems to be so complete a schedule of student activity that the news matter shall be hard pressed to find two cents' worth a day for the rest of the week. We have plenty of material, but the people, in spite of the fact that they feel as strongly as anybody the need for plugging before mid-year's.

We should not think of expressing on our own our responsibility an opinion to sweeping as the one commented upon in today's communication; the state committee is a much more authoritative source. That statement we emphatically reaffirm, while there have been many tremendous advances in movements already under way, such as that to which our committee alludes, the step in question is an entirely new departure.

THE TECH

Published as second-class matter Sept. 14, 1913, at the post-office at Boston, Mass., under the act of Congress of March 3, 1879.

SCIENTIFIC NOTES

Organized observation, and a good deal of it, still leaves a great deal of it, still leaves a great deal to be explained concerning the character of fireballs—called thunderbolts—and meteor trains. The "nuclear section" of the British Astronomical Association continues faithfully to record instances of fireballs and of stars which accompany and following the appearance of meteors or shooting stars in the sky. Four authenticated and recent instances are quoted by the Rev. M. Davidson in the current number of the association's journal. The former instance was a fireball occurring at a calculated height of about seventy-six miles and disappearing at a height of forty miles; the second a meteor train in which the path of light lasted for two seconds; the third a fireball with a trail lasting fourteen seconds, and which was apparently one of the Perseid meteors of August; and the fourth a meteor train lasting some seconds. With regard to fireballs we find ourselves in the difficulty experienced by Mr. De Morgan's schoolboy who was asked to define a rhomboid—"it all depends on what you mean by a rhomboid"—for fireballs are of two kinds. There are the fireballs which have sometimes been reported by mariners and which during thunderstorms, actual or imminent, play about the masts and rigging. These are not discredited, but have been explained as electrical phenomena such as can be repeated by appropriate means in a laboratory. Then there are the fireballs which have sometimes been observed during the course of thunderstorms, and which have been credited to the actual presence of meteoric material leaving the atmosphere. These are often seen by mariners and are certainly not illusions caused by ball lightning, or the like. The third type of fireball, which is an admitted phenomenon, is the fireball seen as a result of a meteoric train. The "casting darts" in all directions. The "casting darts" in all directions. The "casting darts" in all directions.

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HARVARD AGREEMENT

(Continued from page 3)

be invited to sit with the committee that recommends the appointment of a President or Acting President to the Corporation of the Institute.

As soon as this agreement goes into effect, the Faculty of the Institute shall be enlarged by the addition thereto of the professors, associate professors, and assistant professors of Mechanical, Electrical, Civil and Sanitary Engineering, Mining and Metallurgy, in the University's Schools of Applied Science. These persons shall acquire the titles and privileges of the same rank in the Institute while retaining their titles and privileges in Harvard University, and the terms and conditions of their employment and their salaries shall be unaffected by the change. These professors, associate professors, and assistant professors of the Institute in the departments of Mechanical, Electrical, Civil and Sanitary Engineering, Mining and Metallurgy, shall acquire the titles and privileges of the same rank in Harvard University while retaining their titles and privileges in the Institute, and the terms and conditions of their employment and their salaries shall be unaffected by the change.

All professors, associate professors, and assistant professors appointed under the operation of Section II shall have the titles and privileges of professors of the University and of the Institute, including the right to benefit from the pension systems of both institutions.

Additions to the Faculty of the Institute shall be made by the appointment of professors, associate professors, or assistant professors under the operation of Section VII, or by the Corporation of the Institute for other purposes. The Faculty constituted as indicated above shall, subject to such directions as may be given by the Corporation of the Institute, prescribe the courses and conditions of entrance thereto leading to all degrees granted by the Institute. The same Faculty shall, subject to such directions as may be given by the Corporation of the Institute, prescribe the courses and conditions of entrance thereto leading to all degrees granted by the University under the operation of this agreement.

XII. Degrees shall be conferred by the Institute and by the University acting separately on the recommendation of the Faculty referred to in Section X.

Restricted Requests.

XIII. It is expressly provided that as regards the funds and property of the University and of the Institute respectively referred to in Sections III and IV, this agreement shall be subject to any special terms and restrictions upon which such funds and property may be held; and any property or funds that may be held at any time by either Corporation under such terms and restrictions as would prevent their use precisely as is indicated in this agreement, shall, nevertheless, be used by the two Corporations respectively for the support, benefit or encouragement of a co-operative effort in the field of education and research in engineering and mining in such manner as may be permissible in accordance with the trusts upon which they may be held.

XIII. Whereas, doubts might arise as to the legal effect of an omission from this arrangement of any provision for its termination, it is hereby provided that the agreement may be terminated either by the University or the Institute, but that no termination shall be made except upon notice from one party to the other of at least five years unless a shorter time be mutually agreed upon.

XIV. This agreement shall take effect when finally adopted and approved by the Corporation and Board of Overseers of the University and the Corporation of the Institute; and the corporation referred to in Section II shall begin when the Institute is ready to open courses in Engineering and Mining on the site in Cambridge mentioned in that Section.

At least one member of the student body will give a T. C. A. talk next term.

The City of Boston and the Brotherhood of St. Andrew will hold elections today.

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