

SENATOR BINGHAM WILL BE SPEAKER AT COMMENCEMENT

Exercises to be Held This Year
at Symphony Hall on
Fourth of June

CLASS OF 1879 IN LINE

Bob Whittemore Will Furnish
Music for Senior Prom
at Hotel Statler

Senator Hiram Bingham of Connecticut will be the Commencement speaker at the graduation exercises to be held in Symphony Hall on June 4. This will be the first time since Technology moved across the Charles River that the exercises have not been held in the Great Court. Many former exercises, were held in Symphony Hall.

Marching in the academic procession at Commencement this year will be the Class of 1879, the Fifty Year Class, members of which will be guests of President Samuel W. Stratton at a luncheon at his home on Commencement day.

Bob Whittemore's band will furnish the music for the annual Senior Prom that is scheduled to be held in the Hotel Statler on the evening of June 4. A dinner will be served and some form of entertainment provided for the intermissions in dancing.

No definite program has been selected for the Class Day exercises as yet but the tentative program is as follows:

1. Orchestra.
2. Welcome—Earl W. Gleen, First Marshall.
3. Presentation of Institute Ring—Oswald V. Karas.
4. Acceptance of Institute Ring—John F. Bennett, President of the Class of 1930.
5. Ivy Oration—Hunter Rouse.
6. Presentation of Class Gift—C. Brigham Allen, President of Class of 1929.
7. Acceptance of Class Gift—President Samuel W. Stratton.

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EMBRYO DEVELOPMENT TO BE DEMONSTRATED

Clay modelling depicting embryological development will be demonstrated in Room 4-370 tomorrow afternoon at 1 o'clock by Dr. A. D. Mead, vice-president of Brown University and former head of the biological department of that University. He will trace the development of a frog from the embryo, and will probably demonstrate the development of a human face from the embryo.

Dr. Mead is an international authority on biology, and is known as an expert in clay modelling. Although this talk is intended primarily for students in G. 75, all other students are invited to this demonstration.

GRADUATE RETURNS TO WALKER FOR WIFE

Jack Bailey '28 and Miss Lillian Casalou, daughter of Harry Casalou, chef of Walker, were married Saturday May 11th. They will make their home in Bristol, Pennsylvania where Bailey is working with the Keystone Aircraft Corporation.

Parade of Chevrolets Assembles at Walker

Great and small, crowded together like a funeral procession, about 40 Chevrolets lined up in front of Walker Memorial for a big parade yesterday morning. Every new make of the passenger and truck models was appropriately distinguished with a large sign praising its features and the newest car colors diverted many of the men being to school to examine the General Motors product. About 9 o'clock the parade started for its tour of the city with a police escort. A few of the passersby were perfectly willing to buy a model on the spot, but their finances prevented them from doing so.

Warning Made Against Copper-Plated Salad

Culinary art was promulgated by the institution of a new method of preparing salad in a freshman chemistry lecture Tuesday during the study of copper. In explaining the effect of acid upon copper cooking utensils Professor H. Monmouth Smith claimed that the preparation by cooking of salad in a copper vessel aided corrosion and that the food should be cooked in another utensil. When the discrepancy was realized, the only coed in the class was questioned as to some acidic cookable food.

Professor Webster Addresses Faculty

"Anglo-American Relations" is
the Topic at Faculty
Club Luncheon

At the luncheon meeting of the Faculty Club held in the Faculty Dining Room of Walker Memorial yesterday noon, Professor Charles K. Webster addressed the members on "Anglo American Relations."

Professor Webster is Professor of International Politics at the University of Wales, and Professor of History at Harvard. During the War he served as Subaltern in the Royal Army Service Corps in England and France, and later as a member of the War Office. During the Peace Conference, he was Secretary to the Military Section of the British Delegation. He has published several works on British diplomacy and British foreign policy.

It is the opinion of Professor Webster that relations between the two countries will always be friendly. He believes that it is inevitable that two such powerful countries will inevitably have frequent causes for friction, but he does not think that these differences can ever reach the point of hostility. He cites as examples the recent controversies regarding debt settlement and the building of battleships, and states that these questions have been practically settled to the mutual satisfaction of the two nations.

World-Famed Integrator is a Product of Electrical Engineering Research

Electromechanical Integrating
Device Originated Here
Early in 1925

The development of electromechanical integrating devices has been given much attention by the Research Laboratory of Electrical Engineering at the Institute. This research on the design of machines for solving complex integrals such as are encountered in many engineering problems has become well-known throughout the world. The work has been under the direction of Dr. Vannevar Bush of the Electrical Engineering Department.

Many electrical engineering problems are of such complexity that their mathematical analysis is practically dependent upon a mechanical means of solution. It was an appreciation of this situation which led to the beginning of a program of research upon such devices at Technology. In 1925 the need arose for some rapid method for evaluating a complex integral encountered in the study of transient voltage phenomena and communication networks. The usefulness of the "superposition formula" which had been developed to solve problems in this field was materially limited by the difficulty of its mathematical solution. At the suggestion of Dr. Bush the Research Laboratory of Electrical Engineering undertook to develop electromechanical means for performing the necessary integrations.

The fundamental principle of the original electromechanical integrator lay in impressing voltages, varied proportional to the ordinates of the curves to be integrated, upon a Watt-hour meter which serves as the integrating element. Herbert R. Stewart '24 and Francis D. Gage '22 designed

CAMP MASSAPOAG CAPACITY TO BE INCREASED TO 300

Letters Describing Camp to be
Sent to All Potential
Freshmen

STILL NEED MORE ROOM

Camp Massapoag, according to the T. C. A., will entertain about 300 students next fall in the annual week-end outing made by members of the incoming freshman class. The capacity of the camp in 1928 was only 200 including upperclassmen and many students were unable to go due to the limited sleeping quarters. At the meeting of the Executive Committee of the T. C. A. plans for the camp were discussed and it was decided to send letters to all freshmen, asking them to go on the outing.

Bursar Horace S. Ford wishes the camp directors to be able to take care of all the men who apply, but financial assistance must be given the T. C. A. to obtain more quarters. There is a possibility that the R. O. T. C. might be able to lend some tents and cots to enlarge the capacity of Camp Massapoag. At present the T. C. A. pays for one quarter of the cost of the week-end trip, since they charge \$6 instead of the true cost of \$8.

Formerly those who take the College Board Entrance Examinations have been sent the information about freshman camp first and the remainder of the campers have been secured from the transfers. Last year it was necessary to deny most of those who took the Institute exams in September the opportunity of going.

If the capacity of the camp is increased 50 per cent it is felt that all men who wish to go will be able to do so since the cost, the room hunting, summer vacations, and the date usually prevents about half the new men from attending. With the increased number of men, there will be more leaders, speakers, and upperclassmen to initiate the freshmen into the traditions, customs, and history of M. I. T.

Hawkins Captain Elect of 1930 Soccer Team



Edgar M. Hawkins '30

T. E. N. Features Aviation In May Issue Out Today

Articles of General Interest
to Entire Student Body
Also Included

"Aviation" is the theme of the May issue of T. E. N., which is on sale today and tomorrow. In addition to the articles dealing with this subject there are included a number on subjects of general interest to the student body.

"Airplane Engineering", by Alfred A. Gassner is a description of the problems met with in the designing of airplanes, and the way in which they are overcome. The author is in charge of engineering for the Atlantic Aircraft Company, makers of the famous Fokker planes.

"Airplane Manufacture" by Alfred B. Berghel '32 is a discussion of the parallelism between the aeronautical and the automobile industries. The author spent several years in the aviation industry before coming to the Institute.

Among the articles of general interest, "The Senior's First Job", by Colonel Frank L. Locke '86, Person-

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ANNUAL INSPECTION TO BE HELD FRIDAY

Company C Chosen Best Drilled
Of Freshman Companies

In preparation for the annual inspection to be held on Friday afternoon at 4:15 o'clock, under the supervision of Brigadier General William P. Jackson, of the First Coast Artillery Corps, competitive drilling to determine both the best drilled individual and the best drilled freshman company was held on Monday afternoon during the regular drill period. Company C, which has been in charge of Captain Crawford M. Kellogg this year, was adjudged the best drilled of the freshman companies, and George D. Freeman '32, of Port Au Prince, Haiti, was the best of the individual competitors.

The individual competition was open to all members of the freshman R. O. T. C., and as a result of drilling held during the past week about twenty-five men were selected for the final competition on Monday. The manual of arms and various individual movements were taken as the basis upon which to judge the drilling, and three of the twenty-five were finally chosen as the pick of the Battalion. George D. Freeman took first honors, William A. Kirkpatrick, second, and Howard A. Kinzer third. Regular platoon and company movements were chosen for the company drilling, and after a short drill Company C was chosen as the best company. Participants in the First Corps Area Rifle Match which was won by the M.I.T. Rifle Team this year, will be presented with medals during the inspection on Friday.

M. I. T. A. A. GIVES APPROVAL OF NEW MANAGERS ELECT

Class Numerals Approved For
First-Year Track and
Rifle Teams

HAWKINS SOCCER CAPTAIN

Numerals Are Also Awarded on
Interclass Meet to the
Point-Winners

Edgar M. Hawkins '30 was approved as captain of the Soccer team for next year at the meeting of the Executive Committee of the M. I. T. A. A. held last Monday. Hawkins was recently elected vice-president of the Institute Committee. The recommendations of E. J. Norris '31 as manager of the wrestling team and W. H. Hodges '32 as manager of the freshman rifle team for next season were also approved.

In the same meeting the following members of the freshman track team who were point winners in the meet with Huntington were recommended for the award of class numerals: L. W. Bailey, E. C. Beck, D. R. Gilman, W. A. Hall, J. W. Jewett, L. P. Leino, J. A. Robertson, R. C. Rogers, and R. E. Wayne. The members of the freshman rifle team were also recommended for the same award, J. F. Langley, W. H. Hodges, G. F. Barnett, R. G. Cunningham, W. E. Nichols, T. H. Jenkins, A. W. Dunning, E. A. Eddy, J. C. French, N. I. Paulson, and J. E. Strong, manager.

Those men who scored points in the Interclass track meet were recommended for the award of numerals in their respective classes. Those recommended are: G. W. Burgess, P. D. Crout, N. E. Earl, M. Gray, A. Fleming, J. T. Hallahan, and A. N. Lawrence of the Class of 1929; R. L. Berry, M. H. Bragdom, F. E. Elmer, L. N. Gonzales, M. S. Herbert, L. P. Jandris, F. A. Ladd, L. S. Thorsen, and M. O. Zeigler of the Class of 1930; H. K. Baltzer, P. S. Benjamin, C. Broder, R. Dahle-Hanson, H. A. Danforth, B. Grondal, R. T. Leadbetter, W. T. Moody, and E. B. Whitworth of the Class of 1931; L. W. Bailey, J. G. Cree, M. H. Etstein, D. B. Gilman, W. A. Hall, J. W. Jewett, J. F. Kelly, A. G. Reidell, and J. A. Robertson of the Class of 1932.

SENIORS MAY MAKE GIFT TO ENDOWMENT

\$90 Gift Will Amount to Same as
Proceeds from Insurance

Those Seniors who did not favor the endowment insurance plan as a means of contributing to the class gift to the Institute, will have an opportunity to do their share by making an outright gift. A sum of \$90 put at interest until the 25th Class Reunion when the \$75,000 endowment will be presented will amount to the same as the proceeds from an insurance policy taken under the plan used this year.

Since the goal set has not as yet been reached, the Committee wishes as many Seniors as possible to take this means of increasing the Class Gift. All those interested should see C. Brigham Allen '29, William Baumrucker, Jr. '29, or Mr. E. L. Goodrich in Room 3-213 to get the particulars.

Dorm Porters Display Energy Playing Cricket

"Big Bill Thompson," formerly of Chicago, would probably raise quite a disturbance if he saw the porters of the dormitories playing cricket during the noon hour. The English game attracts the students attention, since bowling the ball appears to cause queer contortions among the players. However they do not seem to have mastered the intricacies of the game so far as most of the time is spent in looking for the ball under the autos parked about the field.