

THE TECH

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SCIENCE IS KEY- NOTE OF WORLD

Dr. R. C. Maclaurin Makes This Statement in Speech

DEAN BURTON SPEAKS

Event is Annual Dinner of the Harvard and Tech British Empire Clubs

The obligations and opportunities of English students in America was the theme of the address delivered at the annual joint dinner of the Harvard Canadian Club and the Technology British Empire Association at the Hotel Nottingham last Saturday evening.

President-Elect Richard C. Maclaurin of the Institute was the principal speaker. He welcomed this manifestation of good fellowship between Harvard and Technology students, and expressed peculiar pleasure at being called upon to address a gathering of Englishmen.

He dwelt at length on Great Britain's relations to her colonies, contrasting the old idea that the dependencies are a burden with the new one that they are the principal mainstay of the Empire.

He said it was the duty of every young Englishman, fortunate enough to receive an American schooling, to educate the minds of the home people to the fact that stubbornness and perseverance are not the only qualities necessary for success. Scientific method is now being applied in the moral as well as the physical world and in order to succeed today a man needs tact as well as persistence.

Dean Burton told in his interesting way of what the Britishers are doing at Technology, especially in athletics.

Other speakers were Senator Ferguson of Prince Edward's Island, Pres. MacLeod of the Intercolonial Club of Boston and Dr. Harris, Prof. Munro and Dr. Rand of Harvard. They urged all English students to take back home with them the scientific spirit and ideals of America.

PENN. RELAY SUCCESS

Prospects for Intercollegiates Brightened by Good Work

Victory over the fast Wesleyan team at the Pennsylvania Meet brings much credit to the Institute team. The running of its members, Capt. C. W. Gram 1909, A. L. Moses 1910, W. C. Salisbury 1911, and P. D. White 1911, was excellent and the time, 3 minutes, 31 2-5 seconds, only outdone by the Chicago team.

After a fake start, for which all except Tech and Wesleyan were set back, Moses obtained second place, behind Wesleyan. Salisbury next took the running and decreased the Wesleyan lead of ten yards, to three yards. White on the next lap passed his opponent after about 120 yards and then gained three yards more. Gram, running the final lap in good form, increased his lead to nearly twenty yards and finished strong. The average time of the Tech team, 52 4-5 seconds is faster than any of the men have done at the Field this spring.

The showing of Moses was very creditable, as he was in a new position and matched against the fastest of the Wesleyan team. With more training, it seems very probable that Gram will win the intercollegiate quarter-mile.

The first round of the spring tennis tournament will close Thursday, April 29. It is important that every man who has been drawn in the first round should play off before that date, as otherwise the match will be defaulted. The drawings are posted in Rogers corridor.

DR. WALKER DOING VALUABLE WORK

Investigations on Rusting of Tinsplate Important to Industry

FLAWS IN BEST OF PLATE

By Ingenious Scheme Dr. Walker Detects Presence of the Slightest Flaw

Some important results are being obtained by Dr. W. H. Walker in some investigations he is carrying on in the Institute laboratories on tin plate as it is now manufactured and placed on the market. He has succeeded in showing one of the principle causes of the deterioration of tin plate and is now endeavoring to find a remedy for the difficulty.

It is well known that long before it wears out, tin plate is destroyed by the rusting of the iron or steel foundation. Dr. Walker has devised a method for detecting the rusting as soon as it starts and has found that minute holes in the plating are responsible for the trouble.

The sample to be tested is carefully washed and then covered with gelatine, containing small amounts of sulphuric acid and potassium ferricyanide. The acid has no action on the tin coating, but wherever the tin is broken it attacks the iron and the ferricyanide turns blue. The blue color is prevented from diffusing by the gelatine and half an hour after the gelatine is applied every imperfection in the tin is clearly indicated by a blue spot.

By this method it has been shown that on even the best quality of tin plate when new the occurrence of pin holes is frequent.

With this easy and accurate method of locating the pin holes or other points on the tinned surface where iron is exposed, it is hoped that something more definite may soon be learned regarding their cause and a remedy devised.

WIRELESS SOCIETY

The announcement, several weeks ago that a wireless society was to be formed at the Institute has caused considerable interest among those interested in wireless telegraphy. A committee was appointed to frame a constitution and arrange minor details before the final organization. This has been done and a meeting will be held in the small reading room of the Union at four o'clock, Friday afternoon. All those who desire to become charter members should be present at that time.

The plans of the society have been carefully gone over and discussed with a number of the Faculty of the Institute, two of the Government officials at the Charlestown Navy Yard and several wireless experts in the city. In all cases the plans and ideas of the proposed society were heartily approved and a willingness expressed to cooperate and aid in every possible way.

The meeting Friday will be for the final organization. There will be no dues or assessments from the members this year.

MELROSE BEATS 1912

Contrary to the expectation of many, the Melrose High School defeated the freshmen Monday afternoon by a score of 4 to 0. The game was played at Pine Banks Park, and was very interesting.

There were sensational plays by both teams, Melrose keeping down the score many times by snappy playing. Ches-sing of Melrose played an especially good game.

GUNCKEL TO TALK ON TOLEDO WORK

His Remarkable Success in Improving the Life of Newsboys

CONVOCATION TODAY

Picturesque and Jolly Character Carries on Only Work of Kind in World

Mr. John E. Gunckel, of Toledo, president of the Newsboys Association of that city, will address the Institute at a convocation, today at 2 P. M.

His work among the boys of Toledo has been unprecedented. He has eliminated among the boys the use of tobacco in any form, or profane language, and the practice of stealing, and with such success that dishonesty among the newsboys of the association is unknown. Over 2,100 active members from this association. Personally neither Mr. Gunckel or any adult comes in touch with any boy to inform him. Every direct reproof or appeal comes from some other boy. The city is divided into 13 divisions with 12 officers each. If any boy is going wrong it is reported to the district officers, and he is dealt with in their own way. It is a common thing for teachers and even parents to report a child to the association.

Aside from the system, Mr. Gunckel's success lies in the fact that he never reproves or criticizes. He is a great jollier and has a very picturesque air about him that captivates the boys.

PROF. CROSS ON X RAYS

Special Lecture Was Illustrated by Lantern Slides

"X-rays and radioactivity" was the subject of a special lecture given by Prof. Charles R. Cross yesterday afternoon.

Under the Roentgen rays, Prof. Cross showed a sheet of aluminum to be as transparent as the pane of ordinary glass placed beside it, and a glass cube could be clearly distinguished through the side of an aluminum drinking cup. X-ray photographs of a purse in which keys and coins could easily be seen, were thrown upon the screen. A pair of gloves in which a diamond ring was concealed placed under the rays showed how custom officials could make practical use of the rays.

Methods for distinguishing genuine diamonds from imitations by the use of the rays were discussed, and transparent photographs of beans, nuts, raisins, and some of the smaller animals such as the bat, turtle, fish, snake and a small alligator were shown. The bones of the animals could easily be seen through the flesh.

Many of the scientific phases of the waves were discussed, and with the aid of a vacuum pump Prof. Cross showed the difference of intensity of the rays at different pressures.

BIOLOGICAL MEETING

Dr. Frederick Wood Will Address Last Meeting of the Year

At the dinner in the Technology Club tomorrow evening, the Biological Society will listen to a talk by Dr. Frederick A. Woods on "Biometrical Methods and the Interpretation of History." Dr. Woods, who is a special lecturer in biology at the Institute, has made a study of the dimensions of living organisms with particular reference to their history.

This will be the last meeting of the Society for the season, and members are urged to be present. An enjoyable evening is promised to all. An opportunity will be given to sign the constitution. The charge for the dinner is 60 cents per plate.

BUSINESS SCHEME FOR ACTIVITIES

Plan to Prevent Personal Gain or Loss of Members

AUDITING OF ACCOUNTS

Will Assure Managers of Status and Promote Interest in Student Affairs

In line with the point system and other recent improvements and developments of student activities is the following plan which is intended to effect all the undergraduate activities at the Institute.

Object.

By publicity:
To increase interest in and respect for the activities.
To remove personal gain and reduce the possibility of personal loss.
To prevent neglect of studies.
To insure financial stability.

Plan.

1. Every student activity shall have its accounts kept, preferably by the institute committee bookkeeper, in such a manner that monthly reports can be made to the Institute Committee.

2. The Institute Committee will prepare these reports for publication in The Tech together with a report of the corresponding month of the previous year for comparison, and will make such comments and recommendations as may seem opportune.

a. Before publication, the matter to be published will be gone over with the head of each activity to permit of possible explanations.

3. The Institute Committee will audit the accounts of the activities twice each year.

4. All amounts remaining over at the end of the school year will be given by the activity making them to some Institute interest.

a. This allows giving of a small amount to the following board of the same with which to start the next year.

First and foremost the scheme tends to prevent all gain or loss by the fellows running the enterprise. At the end of the year, if any money is left over, the activity making it may give it to any other activity it chooses, carrying it over itself for the next year if it so decides. Personal loss may be prevented by similar gifts from other activities and by accurate knowledge of how matters stand during the year. This last is effected by putting the drudging of bookkeeping into the hands of a paid experienced man. This allows business managers to give up their time to making money, not keeping track of it.

For a long time the business departments of practically every student activity have been lax, unwieldy and inefficient, not through the calibre of the men, but because of the system. The business manager either becomes so

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CALENDAR

WEDNESDAY, APRIL 28.

2:00 P. M.—Convocation, Huntington Hall.

4:15 P. M.—C. E. Society, 11 B.

5:15 P. M.—Dining Room Committee Meeting, the Union.

8:00 P. M.—Musical Clubs Concert, East Boston.

THURSDAY, APRIL 29.

1:00 P. M.—1912 Class Meeting, Huntington Hall.

6:30 P. M.—Biological Society Meeting, Technology Club.

1:00 P. M.—Class Day Committee Meeting, Room A, Union.