

OFFICIAL BULLETINS OF GENERAL INTEREST

Colloquium Mr. G. M. J. Mackay
Monday, December 15 and Tuesday, December 16, 2 P.M.
Room 10-275

Mr. G. M. J. Mackay, of the Research Laboratory, General Electric Company, will present a colloquium on "Insulation."
Open to members of the instructing staff, graduate and senior students and the junior honors group.

Faculty Club Luncheon Meeting Mr. S. S. G. Knox
Tuesday, December 16, 12 M., Walker Memorial
Faculty Dining Room

Mr. Knox, prominent engineer, will speak on "Inter-Allied Debts".

The Geometry of Linear Displacements Prof. J. A. Schouten
Tuesday, December 16, 3:30 P.M., Room 4-270

Professor J. A. Schouten of the Technische Hoogeschool, Delft, Holland, visiting professor on the Rockefeller Foundation, will give a lecture on "The Geometry of Linear Displacements."

Open to students and members of the instructing staff.

Precise Measurement of Air Flow Dr. Sanford A. Moss
Tuesday, December 16, 4:00 P.M., Room 5-134

Dr. Sanford A. Moss of the Thomson Research Laboratory, General Electric Company, Lynn, will give a series of lectures on "Precise Measurement of Air Flow" under the auspices of the Aeronautical Engineering Department. The subject of the third lecture will be "Flow Measuring Nozzles, Venturi Meters, Orifices in Thin Plates, Pitot and Impact Tubes."

Open to students and members of the instructing staff.

Various Phases of Modern Atomic Theory Prof. P. Scherrer
Wednesday, December 17, 4 P.M., Room 10-275

Professor P. Scherrer, of the Technische Hochschule, Zurich, Switzerland, will give an experimental lecture on various phases of modern atomic theory.

Open to students and members of the instructing staff.

CALENDAR

Monday, December 15

5:00-6:00 P.M.—Instrumental Club rehearsal, East Lounge, Walker Memorial.

6:00-9:00 P.M.—Italian Club business meeting, Faculty Dining Hall, Walker Memorial.

Tuesday, December 16

5:00-6:00 P.M. Banjo Club rehearsal, East Lounge, Walker Memorial.

5:00-5:30 P.M.—Beaver Key Society meeting, North Hall.

8:00-11:00 P.M. Alpha Chi Sigma initiation, Walker Grill.

6:00-8:00 P.M.—Soccer Team dinner, Grill Room, Walker Memorial.

Wednesday, December 17

5:00-6:00 P.M.—Banjo Club rehearsal, East Lounge, Walker Memorial.

7:00-9:00 P.M.—Instrumental Club rehearsal, East Lounge, Walker Memorial.

6:00-9:00 P.M.—Corporation XV Dinner meeting, Faculty Dining Hall, Walker Memorial.

5:00-9:00 P.M.—Plant Engineering Club of Boston, dinner.

4:00-6:00 P.M.—Latin American Students' meeting, North Hall, Walker Memorial.

7:30-10:30 P.M.—Tech Show rehearsal, West Lounge, Walker Memorial.

7:30-10:00 P.M.—A. E. S. Smoker, North Hall, Walker Memorial.

7:30 P.M.—Basketball game, Tech freshmen vs. Wentworth Institute, Hangar Gym.

The following men have shingles for numerals which may be obtained by calling at the track office:
Ernest Butkus '33.
Jack T. Turner '33.

EINSTEIN'S THEORY

Interesting and instructive
SILENT PICTURES
Showing the following subjects
Einstein's Theory
Eclipse of the Sun
Yosemite National Park
Brattle Hall,
Harvard Sq., Cambridge
Thursday Evening,
December 18
at 8 o'clock
ADMISSION 50 CENTS

SIMPLEX WIRES and CABLES

INSULATED WITH RUBBER
PAPER OR VARNISHED
CAMBRIC

SIMPLEX WIRE & CABLE CO

Manufacturers
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CHICAGO SAN FRANCISCO
NEW YORK CLEVELAND
JACKSONVILLE

PRINCETON PUCK TEAM OVERCOMES TECHNOLOGY 7-3

Lack of Teamwork, Passing
Conspicuous Faults
Of Beavers

ORBANOWSKI THE STAR

Hors Obanowski made himself the Beaver star of the game against Princeton last Saturday night at the Baker Memorial rink at Princeton. He scored all three of the M. I. T. goals in the game which the Institute team lost 7-3.

Princeton's team was superior to the Beaver team in practically every department of the game. The visiting squad did not show up as well as it did against Harvard last Thursday night. Their lack of passing again proved to be an obvious fault. Only one of the three Tech goals was scored on an assist. The Princeton team was a stronger one than expected and showed marked superiority to the Institute team. They had the desirable ability of being able to break up all of the M. I. T. offensive drives before it was well under way and thus preventing their Massachusetts opponents from scoring many goals.

B. U. Game Friday Night

M. I. T.'s lack of practice was the cause for the utter lack of team work. With only one game ahead of them before the Christmas holidays they should be able to remedy this fault by the start of the second half of their schedule. They play the Boston University team next Friday night at the Boston Arena.

Infirmary List

Edward L. Bateman, Jr. '33.
Emerson Horne '33.
Frederick D. Petrie '33.
Edward R. Rohn '33.
John P. Serrallach '32.
Edward R. Toporeck, Grad.

Thirty-Four Men Enter In All-Tech Mat Tournament

Gold Medal Presented To
Winners In Each of Eight
Weight Classes

(Continued from Page One)

after several flashy and interesting exhibitions. In the heavyweight final, he put Klein to the mat in a few seconds more than a minute, having had the advantage almost the entire length of the bout. It must be said to Klein's credit that he was wrestling out of his class which is regularly the 175-pound one, and on this account was seriously at a loss for weight. He won this class without any serious trouble, and it happened to be one in which the finals were decided on Friday, so that he was fresh for the Heavyweight final.

Another very fast match was the final between Mostafa and Moore. Mostafa had previously lost the title in his own class, the 155-pound, but somehow managed to come to the top and beat Moore in the class above. Moore pushed "Musty" from the beginning of the bout, and had the advantage most of the time. Suddenly when he had a half Nelson and a crotch hold, Mostafa broke from underneath him, and the entire tide of the match reversed. Although outweighed, Mostafa contrived to say on top, and finally pressed Moore's shoulders firmly against the mat for a fall after about half of the time limit.

Good style was not lacking among the semi-finals and several of the matches were every bit as active as the more important ones. Milliken, in spite of having already met one man, in his second bout, the one with Jaffe, made the spectators gasp because of the rapidity of the changes and the endurance shown by both of the men. Milliken won both of the trials in which he competed, and gave Fred Judd a terrific battle in the semi-finals. At one time, when Judd was wrapped closely around his neck, he stood up and carried Judd around for several steps, wrestling all the while.

George McCaughan and Charlie Stuart put on a fiery demonstration, in their bout for the championship of the 155-pound class, each having defeated two other men, on the previous day. After battling for the full ten minutes, Coach Ricks was called upon to decide the advantage, which he gave to Stuart. The men had almost the same amount of advantages during the match, one throwing the other underneath, and the other recovering again and again. Everyone commented on the excellency of the wrestling of both men; it was one of the closest of all the finals.

Medals Presented Winners

The winner of each class was presented a gold medal in recognition of his championship after the finals on Saturday afternoon. This award is conferred by the Advisory Board on Athletics and if the trial receives favorable comment there is a possibility of the same sort of medal being given in other of the Institute sports to champions and championship teams. The medal is a gold disc, engraved on one side with two figures wrestling, and on the reverse, with the event and class in which it was won and is suspended from a bar on a blue silk ribbon.

Dr. John A. Rockwell presented the gold medals to the winners of the eight classes after the final in the heavyweight class was decided. Dr. Rockwell is chairman of the Advisory Board on Athletics in the Institute and it is largely through his efforts that the medals were provided. The evidence of strong interest in the tournament was shown by the fact that of the last year's champions, George Koller, heavyweight was the only man who was able to hold his title against this year's challengers.

Fast Bouts in Trials

No serious injuries were sustained during the tournament, although several men acquired bruises and scrapes. Some of the attitudes struck by different men in the bouts would mean certain death to anyone but a wrestler. Shea, in a match with Carr, did tricks which would do credit to an experienced tumbler. The two men were chest to chest with their legs at opposite sides, when upon one of the men came the desire to shift. They went end for end the entire length of the mat before they stopped. Separating, they dived at each other in true Sonnenberg style with only the butting lacking. Due to the fast action everyone was confused as to the holder of the advantage at all times. The match lasted for over half of the time limit, when Shea gained a fall over Carr.

Members of the Beaver Key Society are requested to assemble in Room 11-004 on Tuesday afternoon at 5:30 for a group photograph.

SOCCER TEAM BANQUET

A banquet will be held Tuesday night from 6 to 8 o'clock by the Varsity and freshmen soccer teams in the Grill of Walker Memorial.

POPULAR SCIENCE LECTURE GIVEN BY MINING ENGINEER

Head of Mining and Metals
Department Lectures To
General Public

LECTURE IS ILLUSTRATED

First of Series of Four Talks
To Be Given During
The Winter

"At sunrise the next morning, starting out to inspect the mine, I arrived at a little shaft fifteen feet and sloping steeply. My companion, about to follow, said 'Look what's here,' and, following his gesture, I looked into the face of a rattler coiled in a niche about a foot above my head." This was related by Professor W. Spencer Hutchinson in the first of the series of Art Lectures yesterday afternoon on the subject of "Grand Adventure With the Mining Engineer."

The lecture was well attended by the public, this being the first of the group called Popular Science Lectures which were initiated in 1913 and have increased in popularity with the public to such an extent that they are given twice, once Friday to school children and again Sunday to the general public. Professor Hutchinson, Head of the Department of Mining and Metallurgy at the Institute, has had varied experiences as an engineer in this field in Africa and South America as well as in this country.

Early Mining

He went back to the first mining in the United States saying that it began with the small iron mines in the Eastern States, but that the first major mining was begun with the discovery of gold in California in 1849. Few of the prospectors were trained but they learned their work as they went along and he pointed out that it was not always the experienced man who made the discoveries. To prove this he mentioned the Sucker Mine, one of the most productive gold mines, was discovered by a rank tenderfoot as a result of a joke played on him by some old hands at the game.

Mining, he explained, through the failure of many unsound companies has earned for itself a bad reputation and the general opinion of mining was well expressed by Mark Twain as "A hole in the ground owned by a liar." From his own experiences Professor Hutchinson told of a wild goose chase to British Columbia to a supposedly rich copper mine, where after two days of dangerous travel and hours of digging they gained admission to the mine and found a small two inch vein extending only fifteen feet.

Output of Mines Jumped

By stating statistics he proved that the output of mines in the United States had increased tremendously and in the case of petroleum a jump of 127 fold can be noted. Although this country has an abundance of certain metals there are some strategic metals, given that name because of their necessity in warfare, such as tin, nickel and manganese for which we are dependent on other countries for our supply.

He pointed out that the greatest problem that confronts the engineer is that of dealing with deep mines, which present three major handicaps, the hoisting problem, rock-bursts, and high temperatures. The deepest mine goes down a vertical distance of 7,200 feet and he showed that no cable that long could lift its own weight and that of the bucket so a two stage lift has been devised. Rock-bursts are caused in deep mines by the enormous pressures and are very often fatal and ruin a section of a productive mine. Professor Hutchinson claimed that the most serious difficulty was in the excessive heat of mines in the tropics where the thermometer registered as high as 176 degrees. He explained that the men work at such a temperature in ten minute shifts and even then there is a great deal of fatality.

The entire lecture was accompanied by the most illustrative lantern slides which added much to an understanding of the subject.

AWAY FROM THE GRIND

One hundred couples attended dance given by Alpha Tau Om over the week-end. Decorations the holiday tone and include Christmas tree and numerous lights. The music for dancing furnished by Ruby Newman and orchestra.

Roy Lamson and his Harvard friends were the tuncesters at a closed dance given by Phi Kappa Sigma Saturday evening. Thirty couples attended and Mrs. Hannauer was the chaperone for the occasion. The house was gaily trimmed with Christmas decorations including a Christmas tree.

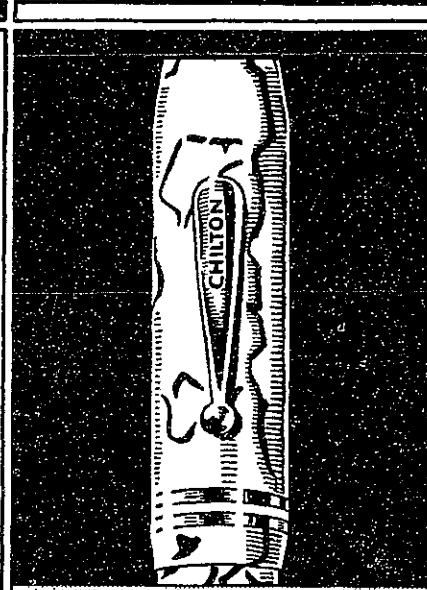
Sigma Nu held an open formal dance Friday night at which several couples were present. The music-makers consisted of Art Marsi and his orchestra. Before the dance a formal dinner was given for six couples. Mr. and Mrs. Littlefield were chaperons of the dance.

Theta Chi held its annual Christmas dance over the week-end which thirty-five couples were present. Art Karle and his jazz-hour produced the music for dancing until midnight. An entertainment was given at twelve o'clock which was immediately followed by a midnight supper. The dance was a closed affair with Mr. and Mrs. Drumming acting as chaperons.

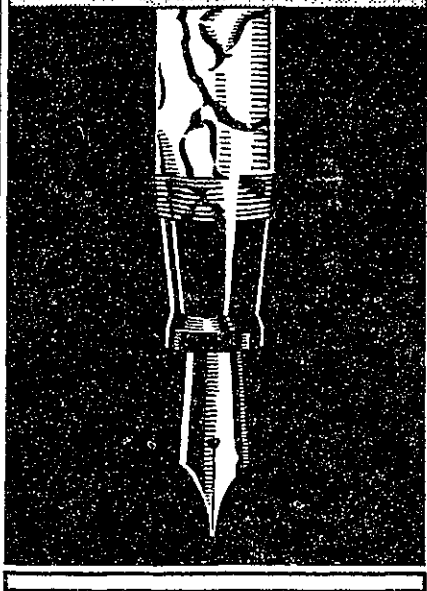
CONTEST DATA MAY BE HAD FROM T.C.A.

Further information about the League of Nations Association Student Thesis Contest may be obtained at the T. C. A. office, it was announced yesterday. Registration blanks and conditions of the contest may be obtained on request.

Prizes are offered for the best 4,000 word thesis on one of a list of subjects relating to the League of Nations; the first prize is a trip to Europe; and there are other cash awards.



THE PEN THAT WON'T
RUN DRY
DURING LECTURES
CHILTON PEN
CARRIES DOUBLE
THE INK



TECHNITE

AT THE
RITE WAY GOLF COURSE
OVER THE COOP — EVERY TUESDAY EVENING

Prize awarded to Tech student making low score for the evening
Play on the Finest and Most Spacious Indoor Course in New
England—18 Holes, Par 49
SPECIAL RATE TO TECH STUDENTS—35c EVERY EVENING
Ping Pong Tables and Equipment on the Third Floor