

RESOURCEFULNESS NECESSARY, SAYS ALDRED SPEAKER

Ralph Modjeski Believes That
Engineer Needs More
Than Theory

CITES MANY PROBLEMS IN BRIDGE DESIGNING

States That Most Future Bridge
Work Will Involve Much
Reconstruction

The fact that the engineer must be a man of extreme resourcefulness was the keynote of the seventh Aldred Lecture delivered by Doctor Ralph Modjeski last Friday afternoon. "To build an ordinary bridge over an ordinary river under ordinary conditions requires only routine training and may be done fairly well by consulting good textbooks, but to meet unusual problems in any branch of engineering requires something more than routine and is the real test of an engineer," he said.

Doctor Modjeski, who is a prominent consulting engineer and who has designed many of the most successful bridges in the United States, emphasized the fact that most engineering problems can be solved by the application of common sense, but in order to become a successful engineer, one must also be able to solve the unusual problems that arise.

Need Logic and Experience

"Common sense in engineering," he said, "must have a foundation in science and experience; it is another name for logic; it is all your years of experience boiled down to what might be called a sixth sense. Neither is it always possible to acquire it through study and experience alone; one must be born with the requisite qualities for attaining it. Nor is this sixth sense, with all its background of science and experience, sufficient for marked success in engineering. One must have also imagination, initiative, resourcefulness and perseverance."

In the lecture, Doctor Modjeski reviewed some of the problems which had come up in his experience. He told how, at the very start of his independent practice as an engineer, in the construction of the Rock Island Bridge over the Mississippi River, he was confronted with a rather unusual problem.

Tells of Bridges He Has Built

It was necessary here to replace the existing structure by a heavier one, so as to utilize as much of the masonry piers as possible, all of which had to be done without the interruption of railway traffic or of navigation. By

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SILVER BAY GATHERING COMES JUNE 12 TO 19

Start Thirty-Ninth Conference
Two Days After Finals

The annual Intercollegiate Student Conference will be held this year at Silver Bay on Lake George from June 12 to June 19. These dates correspond to last year's dates, the Conference opening two days after Commencement. The meeting for the colleges of New England and the Middle Atlantic states has been held each year since 1886.

Last year 600 delegates from 60 institutions were present. Technology's delegation numbered 19 but in 1922, 51 men, the second largest group there, represented the Institute. The T. C. A. executive committee will appoint a chairman who will take charge of the forming of the delegation. One member will be chosen from the Faculty. The cost of the trip will be about \$40 per man.

The purpose of the Conference is to assemble the men in informal fellowship to discuss the problems affecting the colleges and lives of the individuals. Silver Bay, the site of the gathering, is in the Adirondacks and is a two hour sail from the foot of Lake George. There are facilities for boating, swimming, baseball, and other outdoor sports. Prominent men will address the assemblies, and group discussions will be held mornings. The afternoons are reserved for sports and recreation.

FEBRUARY VOO DOO TO COME OUT WEDNESDAY

Organization Offers Charms To
Men Making Staff

The February Voo Doo will go on sale Wednesday morning. The cover design for this month is a very simple composition in black and white of a Technology student carrying the usual weapons of an embryo engineer.

The Voo Doo organization is planning to award charms for work to men who have made the staff in a way similar to that in which those of *The Tech* are given, except that these are permanently awarded the first time. The final design has not been accepted as yet but the charm will probably be of bronze and a facsimile of the Voo Doo rattle as printed on the cover of the January issue.

METALLURGISTS TO MEET IN NEW YORK

Institute Professors to Read
Papers at Scientific
Gathering

Professor W. Lindgren of the Department of Geology, Professors G. B. Waterhouse and C. R. Hayward, of the Department of Metallurgy, Professors W. S. Hutchinson and C. E. Locke of the Mining Department, and Professor R. S. Williams of the Department of Chemistry will attend the 129th meeting of the Mining and Metallurgical Engineers to be held in New York from today to Thursday inclusive.

Professor Williams will present a paper in conjunction with H. O. Homberg and D. N. Shaw on "Heat Treatment, Properties and Microstructure of 6440 Brass." Professor G. B. Waterhouse will present a paper on "Steel—How to Buy" for the author, an Englishman, and will take part in a discussion on a paper, "Influence of Metalloids on Basic Open Hearth Practice" and one on "Effect of Zirconium on Rolling Properties of Steel."

At this meeting, various matters pertaining to Metallurgy and Mining will be discussed at length as set on the program of events. Among the subjects to be discussed are, Petroleum, Coal and Coke, Industrial Relations, and Mining Methods.

The Women's Auxiliary is to have a program of luncheons, theater parties, and bridge parties to while away the time with receptions and dances to help.

CORPORATION XV WILL INSPECT NEW BUILDING

Corporation XV will inspect the new Park Square building which has been under construction during the last year in location. Twenty men is the maximum that can be taken on the trip, which is under the superintendence of Mr. Le Claire. The group will meet outside of room 1-177 at 2:05 o'clock on Wednesday.

Mr. Le Claire lectured recently to the Seniors of the course on the difficulties encountered in the erection of the structure which is the largest office building in Boston.

ORCHESTRA BLUNDERS AT SARGENT CONCERT

A mistake in the third number rendered by the Musical Club's Dance Orchestra at the concert given at Sargent School last Friday evening produced rather an amusing incident. When the leader gave the signal to begin the piece the audience was surprised to hear nothing but the booming of the bass drum and the low notes of the tuba.

It seems that word had been whispered around the orchestra at the last minute that some change was to be made in the rendering of the number, but when the time arrived only the two instruments mentioned responded to the leader's directions.

Contrary to custom, the music for the hop following the concert program was not furnished by the Musical Club's Dance Orchestra, but by another organization.

The selections of the girls of the Sargent Glee Club received much applause and were quite a feature of the program. The singing of the girls added a touch of variety to the concert since it was just a little different from the others of this season.

AMBACH MISSES CHAMPIONSHIP BY JUDGES' DECISION

High Hurdles Finish Appeared
As Dead Heat to Many
Observers

JOYCE ALSO IN FINAL OF FORTY YARD SPRINT

Technology had to be content to place men in the trial heats only Saturday night in the New England A. A. U. track and field championships held in Mechanics Building. Captain Russ Ambach in the 45 yard high hurdles and Joyce in the 40 yard dash were finals, although a number of the Beaver contestants missed out by the smallest of margins.

Ambach in the hurdles ran one of the best races of his career. After taking first place in one of the heats and in the semi-finals, he came through in the finals and finished in what appeared to be at least a dead heat for first place, but the judges didn't see it that way and failed to give the Technology captain a place at all. The finish was one of the closest and most hotly contested of the evening as all four of the men were right together at the end. It appeared to many of the spectators that Ambach secured a place; quoting the Boston Herald writer who saw the finish as it looked from the press box, "The judges gave Russell Ambach of Tech the air. From the press stand, he looked to have won the event in a blanket finish."

Joyce in the Dash

Joyce came through with first place in one of the heats of the 40 yard dash, but did not place in the semi-finals. Fricker entered in the 1000 yard run which was his first bit of competition in quite a while, as he has been out of the game since his feet troubled him during the latter part of the cross country season. After going around six or seven laps he dropped out.

Hahn became the new champion when he gradually crept up and passed his competitors finishing ahead of Clausen. In the 300 yard run Joe Tierney

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WONDERFUL COLLECTION FLOODS SUPER'S OFFICE

Again the office of the Superintendent of Buildings and Power is at its peak in the perennial accumulation of cast-off and lost articles. In a large locker reposes an assortment of all known warmth giving articles with the single exception of fur coats, and including overcoats, mufflers, hats and ear-muffs. In the book case there is a smaller assortment. The books found last term have been sent to the T. C. A. and it is a little early to begin carding second term books. This does not mean that there are none. The number of books is only small by comparison with the number of other articles.

There are also many valuable articles in the safe. There are several dozen slide rules and a number of fountain pens. At the end of the term all these articles will be turned over to the T. C. A. to dispose of as it sees fit. Major Smith requests that men call for any property that they have lost.

Juniors Show No Desire To Fight For Beaver At Valentine Dance Friday

While the Junior Valentine dance was at its height Friday evening, the music was suddenly stopped, and the announcement made that the Beaver was present. Every Junior looked hastily around, and all saw the figure, being held over the rail of the east balcony by a handful of Seniors, eight to

front steps of Walker, the little band of Seniors walked in the front doors of Walker with their charge, and then directly into the front of main hall. This happened to be between dances, so the Beaver paraded all the way across the floor, in full sight of all the assembled Juniors.

Again not a sign of interference was evident, and the procession made its exit unhindered through the door into the kitchen at the east side of the hall. One of the Seniors in the party heard a Junior remark as the Beaver went by, "I got a black eye once, and I don't want another."

SELECT THIRD SENIOR MARSHAL WEDNESDAY

Hereford-Marsh Tie Cause for
Special Election

A special election of the Senior Class will be held next Wednesday for the purpose of choosing between L. P. Marsh and Rockwell Hereford as Senior Week marshals, the two men have received an equal number of votes in the regular elections held February 6th. The polls will be located in room 3-050, the same place the previous election was held and will be open from 8:30 until 5:30 o'clock.

According to D. B. Jennings '24, chairman of the Elections Committee, the constitution of the Undergraduate Association of the Institute states that in the event of a tie in the elections a revote must be taken. This is the reason for holding a special election at this time.

T.E.N. RECEIVES 444 ANSWERS TO QUESTIONNAIRES

Ten Percent of Men Answering
State They Have Never
Read Magazine

SOME MEN ATTEMPT TO BE WITTY IN COMMENTS

By Friday evening at 5 o'clock, 444 of the questionnaires sent out to students of the Tech by the News had been returned. Of the men who answered the question, 381 had read the magazine at one time or another, while 63 had never done so.

T.E.N. had value to 184 of the men, to 190 it was valueless, while 70 did not know whether it was of value or not, so failing to answer the question as to subject. In answer to the inquiry "Would you pay the T.E.N. if it were 15 cents a copy?" it was found that for every ten people who would buy at 25 cents a copy, 12 would buy if the price were lowered. Many said that the price made little difference to them.

The questionnaires were taken seriously by the majority of the students, but some tried to be funny. On a card signed "Dean Talbot" the following comment was made: "Not enough nude women and smutty jokes."

Such favorable comment was received on the Aldred Lectures which have been printed in the last few issues, on the pictorial section and on the Monthly News which consists of a number of articles clipped from various technical magazines throughout the country.

OUTING CLUB TRAMPS TO MIDDLESEX FELS

Several members of the Outing Club went on a ten mile hike yesterday afternoon through Middlesex Fells. The party met at the North Station, leaving on the 1:05 train for Winchester.

From the Winchester station, the party walked to the Middle Reservoir, from there to Spot Pond, and then to the Panther's Cave. The cave was inspected and snapshots of the men and the cave were taken. Leaving the cave, the party returned by way of the North Reservoir and took the train from Winchester back to the North Station.

BROWN DEFEATED BY ENGINEERS IN WRESTLING 16-9

Technology's Greatest Rival
Goes Down Under Skill
of Wrestlers

COYLE AND NORWOOD SECURE ONLY FALLS

Two Bruins, New England Cham-
pions, Fail to Get Anything
But Decisions

The varsity wrestling team defeated Brown, their greatest rival, Saturday night in the Hangar Gym by the score of 16 to 9. Technology secured four of the seven matches, two of them being the only falls of the evening. The victory was especially sweet for the team as Brown is New England Intercollegiate Champion having defeated the Beavers in the finals last year.

Coyle paved the road towards a Technology victory by securing a fall in the 115 pound class. He was up against a worthy opponent however in Books. Both of the little men put up a terrific scrap, the match requiring two overtime periods before a fall decided the bout. In the second overtime period after 2 minutes and 15 seconds of wrestling Coyle pinned his man by a wrist lock and half nelson.

Norwood Wins Easily

Brown came back strong in the 125 pound match, Cox of Brown obtaining a time advantage over Cummings. Technology's representative, Cummings fought the Bruin the whole way, putting up a wonderful fight against his more powerful opponent. Despite his superior strength, Cox lacked the skill to down his adversary and had to be content with a time advantage.

In the 135 pound class Norwood repeated the good work of Coyle in the first bout by securing a decisive victory over Peters of Brown. The Tech man went right after his man and after 4 minutes and 11 seconds of fast and furious wrestling was awarded a fall. Norwood forced the fighting all the way and Peters never had a chance against his more versatile and aggressive opponent.

Lockwood Still Out

An interesting match took place in the 145 pound match between Grin-

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SECRETARY OF ALUMNI VISITS IN WASHINGTON

Is Now in Capitol as Part of
Trip Through South

O. B. Denison '11, Executive Secretary of the Technology Alumni Association is now in Washington, D. C., as guest of the Cosmos Club of that city. Mr. Denison's visit to Washington is part of his February trip to the various cities in the southeastern part of the United States. From Washington he goes to Baltimore, remaining there until the 23rd of this month. He expects to be back in his office at the Institute the 25th.

At Jacksonville, on the second day of the month, Mr. Denison reports by letter that he was "entertained by a small but enthusiastic dinner meeting while at Atlanta a larger dinner was given in his honor." From Atlanta he proceeded to Birmingham, Alabama, where he stayed from the 7th to the 9th.

On the 12th another dinner was arranged at New Orleans, while similar arrangements were made at Louisville, Kentucky on the 16th. The purpose of Mr. Denison's trip is to consolidate the various local alumni organizations throughout the South and to interest them in the larger program of the Alumni Association here at the Institute.

CALENDAR

Tuesday, February 19
8:00—Math Club meeting, Faculty and Alumni room, Walker.
Wednesday, February 20
6:30—Tau Beta Pi smoker, north hall, Walker.
Thursday, February 21
4:00—Physics Seminar meeting, room 4-213.
9:00—Dorm Dance, main hall, Walker.
Saturday, February 23
8:00—Latin-American Club dance, north hall, Walker.
Monday, February 25
6:30—Faculty Council Dinner, Faculty dining room, Walker.