

VARSITY CREW ON RIVER SATURDAY FOR SECOND TIME

All Crews Show Good Form in First Outdoor Workout This Season

TITTMAN ROWS STROKE

Freshman Boat Looks Promising—Even Better Than Last Field Day

Technology's Varsity crew went out on the river for the second time this season last Saturday afternoon. The first workout took place last Wednesday afternoon when the Varsity, Junior Varsity, and first 150-pound crews took to the river in the shells. A sudden cold snap made it necessary for the men to return to the machines on Thursday and Friday afternoon, but despite the fact that the weather still remained unusually cold on Saturday, Bill Haines took his Varsity crew for a long row up the river. The Junior Varsity and 150 pound crews remained indoors and took their usual workout on the machines.

The freshmen, who had hoped to take their first trial spin in the barge on Wednesday when the Varsity crews had their initial workout on the river, were given a chance to perform in the barge when Bill Haines returned with the Varsity, Saturday afternoon. This was their first work on the river since Field Day and to many of them it appeared to be strange, but with the thorough drilling in the fundamentals of rowing that they have received while on the machines during the winter months it is expected that their progress this spring will be even more rapid than it was last fall.

Bill Haines has had a double duty to perform this week, as the freshman coach, Pat Manning, has been laid up at his home since last Tuesday. Latest reports indicate that his recovery has been progressing rapidly, and he should be back at his old job today.

The Varsity boat, in its initial workout on the river, showed several different faces since last fall. The most important change that has been made in the boat is the shifting of Captain Tittman from starboard to the port side at stroke. Whether Bill Haines expects to make this change permanent is not known, but it is evident that Tittman's rowing has improved greatly with this change, and that he possesses many of the necessary qualities for stroke oar. Phil Holt, of last year's Varsity, is rowing directly behind Tittman at number seven. The remainder of the boat sees a change nearly every day with Dolben of the '26 and '27 Varsity, Bryne and Jack Bennett of last year's Junior Varsity, Kohler, a new man, and R. Bennett, Evans, Otis, and McLeod, all of last year's first freshmen, getting the call most often.

Technology Men in Automobile Accident

While on their way back from Brockton late last Friday night, Robert W. Reynolds '30, and Frank L. McKnight '31 had an accident. They were driving along at about forty miles per hour, when Reynolds, who was driving, fell asleep. The car swerved from the road and hit a telephone pole, and both were thrown out of the window. Although the car was almost totally wrecked, neither Reynolds nor McKnight were badly hurt. They were both taken to the Milton Hospital, McKnight came back Saturday, while Reynolds, who received a slight cut, will return in a day or two.

FACULTY TO HOLD MID-WINTER PARTY

Professor Morris to Tell of His Adventures on Mongolian Expedition

Members of the faculty and their friends will make merry at the Annual Mid-Winter Party of the Faculty Club, to be given in the North Hall of Walker, tomorrow evening, at 6:30 o'clock. Ladies' Night will be observed at that time.

The dinner, which will be served at 6:30 o'clock will be followed by an address on "Adventures in Mongolia with Roy Chapman Andrews", given by Professor Frederick K. Morris, of the Geology Department at the Institute. Professor Morris was the geologist for this expedition, and his numerous experiences should provide an interesting talk.

Dancing will follow his address, beginning at 9 o'clock, and lasting until midnight. The orchestra selected to furnish music for this event has not yet been announced.

CHRISTIAN SCIENCE SUBJECT OF LECTURE

Announcement of a free lecture on Christian Science, to be given in Room 5-330, tomorrow evening, has been made by the Christian Science Society of M.I.T. Mr. Charles I. Ohrenstein, C.S.B., member of the Board of Lectureship of the First Church of Christ, Scientist of Boston, is to be the speaker.

The M.I.T. Society has been in existence for eight years. It sponsored the first Christian Science lecture at the Institute in 1927, when Dr. John M. Tutt of Kansas City, Mo., addressed the members of the society and their friends. J. E. Stedman of Cambridge was the lecturer last spring. The address by Mr. Ohrenstein will start at 8 o'clock, and will last approximately one hour. The meeting is open to all who wish to attend.

Gym Team Victorious in Triangular Engagement With Bowdoin and Temple

Combined Concert Given by Musical Clubs at Sargent

Girls' Sextette and M.I.T. Banjo Club Are Received With Enthusiasm

Each of the Clubs rendered several groups of selections, which were supplemented by offerings of the Sargent Glee Club and the Sargent Sextette. The work of the Banjo Club was easily the hit of the evening, Roy W. Ide '30, leader of the Club, playing a banjo with the organization for the first time this year. The Sargent Sextette also did very excellent work, which was received with great enthusiasm by the audience. The Sargent Glee Club, attired in charming gowns, presented a very attractive appearance, and their group of selections received great applause.

Dancing followed immediately after the concert, lasting until 11:30 o'clock. Many Sargent girls and several men from Technology were present in addition to the members of the Clubs, the total attendance being about 200. Members of the M.I.T. Clubs report that the event was even more enjoyable than the highly successful concert given at Sargent last year.

The program of the concert was as follows:

- I. Come to the Fair Easthope Martin
The Lilac Tree George Garttan
SARGENT GLEE CLUB
- II. Thunder and Blazes Fusik
Ballet Egyptienne Liugini
M.I.T. INSTRUMENTAL CLUB
- III. Specialty Piano
MARY E. MacDONNELL
- IV. Songs My Mother Taught Me Dvorjak
Promis' Lan' Burleigh
M.I.T. GLEE CLUB
- V. Prayer from "Boris Godunow" Modest Moussongyky
The Bell-Man Cecil Forsythe
SARGENT GLEE CLUB
- VI. Popular Medleys
M.I.T. BANJO CLUB
- VII. Memories Cadman
Who Did Swallow Jonah
Negro Spiritual
(arranged by Protherve)
SARGENT SEXTETTE
- VIII. Love's Old Sweet Song
Arranged by N. Clifford Page
Sargenta March Mae L. Farwell
SARGENT GLEE CLUB
- IX. Hymn to Technology Haworth '02
Take Me Back to Tech
Litchfield '98
M.I.T. GLEE CLUB

COPITHORNE IS TO CONTINUE READINGS

Professor Matthew R. Copithorne of the English Department will continue his readings of modern poetry this term by giving selections from "John Brown's Body" by Stephen Vincent Benet. This reading will be given in the Walker Memorial Library at 5 o'clock this afternoon.

Dorms Decide Voo Doo Doesn't Deserve Death

Straw balloting in the dormitories on the "Voo Doo" question proved that the dorm men thought the M. I. T. comic magazine was a justifiable publication by a vote of 141 to 22. The ballots were distributed by Lawrence C. Hamlin '29, who is in charge of the investigation of "Voo Doo," on Saturday morning and the voting closed at 1:30 o'clock. The question was worded "In your opinion does 'Voo Doo,' in view of all the issues you have seen, justify its continuance as an official undergraduate publication of M.I.T.?"

SOPHOMORE DANCE TICKETS ON SALE

Desk Will be Maintained in Main Lobby from Today Until Next Friday

Tickets for the annual Sophomore dance that will be held in Longwood Towers, March 15, will go on sale in the Main Lobby today. A desk will be maintained from 9 until 5 o'clock up through the day of the dance which is next Friday.

Circulation of flyers and various blackboard designs will be used to keep the student body reminded of the fact that they have only five days in which to buy tickets. The cost of the ball this year will be \$2 per couple which is considerably lower than the average price of previous Sophomore dances.

Music for this occasion will be furnished by the Tunesters which has played at numerous Technology social functions this year. Several feature and specialty acts are promised to add novelty to the dance. The Fountain Room will be the scene of the dance as this room is considerably larger than the room in which the Musical Clubs held their concert-dance.

BEAVER CLUB ELECTS SOPHOMORE MEMBERS

Sophomores Chosen Members of Junior Honorary Society

Elections to the Beaver Club, which is the honorary society of the Junior Class, have recently been made. The club makes a practice every year of electing to the society those of the Sophomore Class whom it deems worthy of carrying the name of the society on.

The announcement of the result of the elections is as follows: Robert S. Backus, '31, Paul A. Davis, '31, Warren T. Dickenson, '31, James B. Fiske, '31, Horace S. Ford, Jr., '31, John H. Genrich, '31, Oscar Glenn Goodhand, '31, Robert H. Hubbell, '31, H. Tyson Lykes, '31, Robert M. Price, '31, Gilbert M. Roddy, '31, Harry S. Smith, '31, Bernard T. Stott, '31, William F. Wood, '31, and Richard H. Yates, '31.

Crowds Throng Institute to Hear Society of Arts' Science Lecture

Professor Arthur C. Hardy Speaks on "Color, Its Nature and Measurements"

"Color, its nature and measurement" was the subject of the last Society of Arts' Popular Science Lectures that will be given this year. Professor Arthur C. Hardy of the department of Physics spoke before three large audiences which filled the hall on Friday, Saturday, and Sunday.

"In ancient times," said Professor Hardy, "our ancestors used to spend their spare time painting pictures on the walls of their caves with pigments they dug out of the earth." A copy of a picture made fifty thousand years ago in France was shown. It represented an animal closely resembling a bison. The American Indians received their name from the fact that they used the rouge or ferric oxide found in the earth to paint their faces and bodies. In speaking of the lack of color terminology the speaker called the audience's attention to a list of colors written on the board. This included "innocence", "Arizona", "Riviera",

ENGINEERS TAKE THREE PLACES ON THE SIDE HORSE

Fairchild and Reynolds Each Get Two Firsts—Wells and Dolloff Get One

EX-CAPT. WALLER AT MEET

Overwhelming Bowdoin and Temple on Saturday afternoon in the Walker Gym, the Technology Gym Team completed its home schedule for the current season. The final score of the meet was M.I.T., 41; Temple, 13; Bowdoin, 0. The meet was held as a triangular engagement but the scoring was carried on as three separate dual meets.

The high scorers of the afternoon for Technology were Fairchild and Reynolds. Fairchild took first place in the Rope Climb and the Side Horse. Reynolds took first on the Parallel Bar and first on the Rings. Dolloff took first in Tumbling, and Wells took first on the High Bar. Wells also took second on the rings.

Time Bettered in Play-Off

The rope climb was probably the most interesting event of the afternoon in that three men tied for second and two of them bettered their first time twice in succession during the play-off. Couper and Reynolds for Technology, and Baack for Temple all tied at 5-4-5 seconds. Fairchild took the event in 5-2-5s. In the first play-off Couper and Baack again tied, this time at 5-3-5s. Reynolds did the climb in 5-4-5s. In the second play-off Couper and Baack both bettered their previous times, Couper making the climb in 5-2-5s while Baack did it in 5-1-2s.

Reynolds Performs Well

By far the outstanding performer of the afternoon from the spectator's point of view was Wes Reynolds. His form on the parallel bars was excellent. The smooth way in which he executed his series caused round after round of well earned applause. On the rings his still series was equally as well done and appreciated. Altimore, of Temple, who took second place on the parallels, undertook a series of twists and turns about the bar that seemed to take the eye of the spectator. Wells lost a good

(Continued on Page 3)

Three Weeks Will Be Required to Complete Automotive Laboratory

Building is Second of Structures to be Erected in Rear of Institute

Work on the new Automotive Laboratory is progressing and rapidly nearing completion, according to the Department of Buildings and Power. The building, without the equipment that it will contain, will be completed in two or three weeks.

The Automotive Laboratory is the second building to be erected under the plans of the Institute which call for the installation of a number of structures to be eventually known as the back group of buildings. Under this scheme all available space between the Guggenheim Aeronautical Laboratory towards and parallel to Building 10 will be utilized so as to leave no useless space as occurs to the rear left of the Building of Naval Architecture. Between the Aeronautical Laboratory and the automotive structure will be another building four stories high to correspond to the Guggenheim Memorial, and on the other side of the Automotive Laboratory will rise a group of buildings alternately one and four stories high. In accordance with these plans the

new Automotive Foundation is one story high and set on the line where the proposed buildings will be finally. It is equipped with large Drouve skylights of wire-enmeshed glass which occupy fully half of the reinforced roof of steel and concrete in order to allow for sufficient light despite the four story buildings which will eventually adjoin it. The foundation is carried on concrete piles sunk to a considerable depth throughout the rectangular shape of the structure. The four sides are equipped with windows for indirect lighting thereby facilitating the work carried on in the daytime.

Up to Date Equipment
The interior of the laboratory will be one of the most up to date of its kind. Three separate lengths of iron track will be used to anchor dynamometers and motors and run for the entire length of the building. Parallel to the two outside tracks will be three longitudinal trenches of the length of the floor which will lead off from two main header trenches at right angles at the farther end of the building. These channels will be equipped with piping to supply steam, water, gas, and compressed air. Two

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Official News Organ of the Undergraduates of M. I. T.

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OFFICES OF THE TECH: Walker Memorial, Cambridge, Mass. News and Editorial—Room 3, Walker, Telephone Univ. 7029

Business—Room 302, Walker, Telephone Univ. 7415

Printer's Telephone—HANCOCK 5060-1-2

SUBSCRIPTION PRICE, \$2.50 PER YEAR. Published every Monday, Wednesday and Friday during the College year except during college vacations. Entered as Second Class Matter at the Boston Post Office. Member Eastern Intercollegiate Newspaper Association

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A SPLASH FOR TECHNOLOGY

"THESE CHANGING YEARS" might well be the title of this editorial—the last two years have witnessed successes in Technology athletics such as have never been known since the Institute was founded. While students have heretofore been accustomed to offer excuses and alibis for the showing made by their teams, the records made recently have been ones to which we may point with pride.

The performance of the Varsity Swimming Team adds further evidence to prove that Technology has at last come to the fore in intercollegiate athletics. This aggregation finished its dual meets last Saturday by winning from Wesleyan with a decisive score. To those who have followed the success of the team this season, this is no new performance. After nearly every meet this year, reports of new records have come back—in fact the only marks left standing are those of the fifty and one hundred yard swims, both established in 1926 by Elliott B. Grover '28.

While the individual showing of each man on the team has been without reproach, a number of the men have done particularly well. A few who have demonstrated great ability as swimmers are Captain John J. Jarosh '30, who lowered the Technology record in the 440 yard swim by eleven seconds, setting a time which should look very well in the Intercollegiate; Emanuel I. Birnbaum '30, who lowered the breast stroke time by six seconds; Lawrence Luey '30, who has consistently reduced the time of the dashes; Edward H. Mackay, Jr. '31 has consistently lowered the time for the 300 yard medley swim each meet, finally establishing against Brown University a fine record of 4:19.

That the 1928-29 season for the Swimming Team has been the most successful in years goes without saying. Never before has a swimming team approached a record of fifty percent wins. This year the team participated in eight official meets, and won six by decisive scores in most cases. Theirs was no easy schedule—they met among others Army, Columbia, Rensselaer, Amherst, Bowdoin and Brown. To the team, individually and collectively, and its manager we offer our hearty congratulations. To the coach, Russell Dean, for his untiring efforts in the development of a winning team we offer our sincere praise.

The team has one more meet, and this one is all-important. Next Friday and Saturday there will be held at the University Club under the auspices of the M. I. T. A. A. the annual New England Intercollegiate Swimming Meet. None of the swimmers are over-confident—however, their chances are considered good. They need student backing, such support as was accorded the basketball team in its early-season games. It is little enough we can do, and if the team wins, Technology's name will be raised high in college athletic circles.

OUR "TWENTY PERCENT AUTOCRACY"

DAY after day, year after year, the lazy indifference of students at Technology allows less than a quarter of the whole group to control its activities. The rest haven't the interest to vote on pertinent questions, they refuse to attend meetings, and when the interested members make important decisions, the slackers "gripe" about what has happened.

The recent elections to Senior Week Committee was a brilliant example of this inertia. In the first place, there were only eight nominations made at the time the nominations were closed. Six nominated, and twenty-five to be chosen! Such a complete lack of interest made action by the Institute Committee imperative. Officers of this group were forced to interview Seniors, to ascertain whether they would be willing to serve on the committee, and then increase the nomination list. Finally there had been made thirty-eight nominations, and the Seniors were asked to vote on these men. What did they do? One hundred twenty men out of a class of nearly six hundred showed enough concern in the matter to stop in the lobby for a few minutes and indicate their choice.

This word "deplorable" may become odious to readers, but it is the only fit term to apply to a great number of conditions around the Institute. We try to carry on a democratic system of government, but what does it amount to? The "Left Wing" sits back and lets the school-spirited men do the work—then the Insurgents clamor about the way affairs are carried on.

In Europe, an autocracy continues until the masses force the rulers to give them voice in the governments. Our system has grown into an autocracy because the majority refuses to open its mouth until too late to cause anything but ill feeling and unhappy lack of cooperation.

As We See the Movies

METROPOLITAN

As a reminder of the days gone by when the moving pictures were in their infancy, "Stark Mad" appears at the Met this week. It would be hard to imagine a more inconsistent melodrama, and with the aid of the "talkies" the effect that is produced is like that of the old-time penny-catcher with thrills at every corner.

The story is trivial. James Rutherford has sailed in a pleasure yacht to the tropics, in search of his son, who was lost in the Carracas jungle. He is warned by Percy Dangerfield, an explorer, played by H. B. Warner, that he should not attempt to enter the jungle because of some mysterious terror that pervades it. Failing to dissuade the company, he joins it, and they set out. Jacqueline Logan as the heroine and Louise Fazenda the comedienne accompany them, and the rest of their adventures take place inside an old Maya temple. The captain of the boat turns out to be the villain, and there is a man who has gone mad who is their guide. A large ape helps to complicate matters, and a hidden treasure serves as an incentive to murder. Altogether it is the most conglomerate, hashed up piece that has been shown at the Met for many a day.

The sunny spot of the program is the stage show, "Rainbow Trail," with Tom Mix and his wonder-horse Tony. Tom surely does look the ideal cowboy, and he can shoot upside down and wrong side out. The setting was done well after the usual fashion of the theatre, and the costuming was excellent. Joe Rines, was master of ceremonies. The program was also strengthened by Ossman and Schepp, two hot banjoists, and Marie White, who gave burlesques of various types of stage dancers in a truly ingenious way. It seemed to bring back memories of the superbly clumsy Charlotte Greenwood. The finale, with Indians and Indian maidens on the stage, clad in the gorgeous raiment that such a scene permits, was little short of a perfect tableau.

Away from the Grind

With the close of the initiations period, many of the fraternities are blossoming forth with red lights and whatnot, throwing parties and dances with reckless abandon. The comparative lull that had settled down was broken into a thousand little pieces last Friday evening, when five houses threw parties.

ALPHA TAU OMEGA

One hundred happy couples swayed to the rhythm of Ruby Newman's orchestra at the Alpha Tau Omega house last Friday night. The brothers, guests and alumni present were delightfully entertained by one small Ethiopian, whose mastery over the black bottom and Charleston was quite in evidence.

DELTA UPSILON

Evidently the craze for vaudeville has gripped the spirit of the modern fraternity dance. At least, the D. U.'s have helped to set the style. As the dance was in full sway, there was a sudden hush, and it was announced that one of the leading ladies of the Greenwich Village Follies was present, and she had been persuaded to give a specialty act. Mouths fell open, and didn't close for the rest of the evening, for the fair damsel proceeded to give a Moran and Mack. The dance followed a small dinner at the house at which fifteen couples were present. Lew Tobin's orchestra furnished the music, and there were about seventy-five couples at the dance. Professor and Mrs. E. B. Milard were guests of the evening.

DELTA PSI

After being entertained at dinner in the Embassy Club by several friends of the fraternity, the brothers of Delta Psi and their guests enjoyed themselves at a dance in their house, which savoured slightly of the aristocracy. Bert Lowe supplied the music on Friday night for the sixty couples present, among whom were a few alumni. The party was chaperoned by Mrs. F. A. Bourne, Mrs. A. W. Erickson, Mrs. T. G. Frothingham, Mrs. G. T. Francis, and Mrs. Robert Walcott.

SIGMA ALPHA EPSILON

As a measure to prevent crashing the dance at the S. A. E. house last Friday night, the hopeful aspirant was required to give the correct middle name of the person whose bid he had. It was entirely successful, and the house prides itself on having made it an impossible guessing-game. The decorations were in pale green with black silhouettes, perhaps to indicate

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Atwater Kent Holds Music Contest Over Radio to Choose Best Singers

Awards Further Training Under Nation's Best Teachers of Singing

College students throughout the country, particularly those who intend to adopt music as a career, will be interested in the announcement of the Atwater Kent Foundation plans for a 1929 nation wide audition to select the ten best young singers in the country for vocal training at a recognized school of music. Significant in the 1929 plans, as compared with the 1927 and 1928 programs of the same kind carried on by the Atwater Kent Foundation, is the fact that all of the ten finalists will receive at least a year's training under recognized masters or in well known schools, in addition to being given larger monetary benefits.

Outstanding also is the fact that the ten finalists are selected partly by popular vote of radio listeners—the vote counting 60% of the final result in the local, state and district auditions by means of which these finalists for national honors are chosen. The cash benefits this year

have been increased from an aggregate of \$17,500 given the preceding years, to \$25,000.

"It seems to me," said A. Atwater Kent, president of the Foundation, in the announcement, "that after devoting nearly a year to preliminary contests, in which 50,000 or 60,000 voices are tried out, we should make certain that all ten of the finalists be assured of further vocal instruction and the means with which to pursue it. For that reason we have added \$7,500 in cash prizes and two years in tuition to the former awards. We have received innumerable assurances from all sections of the country that the radio audition is worthwhile, and I am, therefore, delighted to take advantage of the opportunity to hold another one this year."

The awards this year will be as follows:

- Winners of first place (one boy and one girl), \$5,000 each and two years' tuition in an American conservatory.
Winners of second place, \$3,000 each and one year's tuition.
Winners of third place, \$2,000 each and one year's tuition.
Winners of fourth place, \$1,500 each and one year's tuition.
Winners of fifth place, \$1,000 each and one year's tuition.

During the summer and early fall local contests will be held in the cities and towns of every state, open to amateur singers from 18 to 25. State auditions will follow and will be broadcast from a central point in each state. Two winners, one boy and one girl, will be selected to represent each state in district contests, of which there will be five, held at central point there will be five, held at central points in the East, Middle West, Southeast, Southwest and Far West. The ten finalists (one boy and one girl from each district) will be put on the air over a coast to coast network in December, for final rating by a board of musicians of national standing. All expenses of contestants to the district and final auditions will be paid by the Foundation.

The Open Forum

Editor's Note: At the request of the writer of this contribution, his name is not published. However, as has always been the custom, it is necessary that all contributions be signed by their writer when they are presented to the Open Forum Editor.

To the Editor of The Tech:

Several of my classmates have asked me a question, which has also been troubling me, concerning the current investigation of Voo Doo. Why does THE TECH wish to put Voo Doo out of business?

Your recent editorial which advocated leniency was to some extent an answer to this challenge, but nevertheless the feeling that the doom of the comic would delight THE TECH seems to be retained in the minds of those who read the previous articles on the subject of Voo Doo's merits.

Immediately upon the appearance of the recent Back Bay number of Voo Doo your publication ran an editorial claiming that the comic publication was unfit to bear its name as an Institute activity and advising that some action be taken in the matter. The Institute Committee at once sprang to action and the ex-general manager of THE TECH lead a movement to do away with Voo Doo. Not wishing to be hasty the Institute Committee decided to investigate first and appointed none other than the leader of this movement as chairman of the investigation committee. Ordinarily in picking a jury it is customary to excuse those who have previous opinions as to the guilt of the accused from duty, but the student governing body did not deem such a precaution necessary. Is this justice?

The remainder of the committee consists of one Junior and one Freshman. Of the Junior I will say nothing, but the freshman certainly has had rather too little time at Technology to have formed much of an opinion as to the general merits of Voo Doo. Indeed it seems like an attempt to railroad our humorous monthly.

When it is said that the recent issue is salacious I must agree that it is in a few places, but in my opinion the places are quite few indeed. The publicity which the Back Bay number received implied that it was far from "pure." Accordingly everyone was prepared to find the greatest possible amount of salacious material in it, and in truth "honi soit qui mal y pense." A hidden meaning was assumed in every article and from the number of undesirable interpretations which were placed on perfectly innocent items it would seem that some members of the student body had been educated for the most part in "smut sessions."

Just how much of the issue is of such a nature as to be considered objectionable? Some who read this may think me depraved, but I contend that the only undesirable parts of the number are two verses of "The Low-Down on a Few of our Contemporary Schools" and possibly "The Coward," although this latter is one of the typical "let-down" stories such as may be found in most all humorous magazines.

Altogether it seems to me that the criticism is for the most part unwarranted, and that the minds of those who are making the criticisms are more in need of purification than is the magazine. I know I am not alone in this view, and I think that many who for various reasons hesitate to express such ideas publicly will agree with me.

Very truly yours, Course X Junior.

Play Directory

- Stage: Tickets for all theatres may be bought at Box-Office Prices from the T.C.A. Walker Memorial.
COLUMBIA: "Bible".
New York and New England furnish the background to this pleasantly musical piece. Polly Walker.
COPILEY: "The Whispering Gallery".
Final week for battle, murder and sudden death in an artist's studio.
HOLLIS: "The Other Man".
Edna, Hibbard and William Boyd in a bewildering conglomeration of comedy, farce and romance. Wise-cracks furnish the humor.
MAJESTIC: "Chauve Souris".
Exquisite piece of European entertainment brought bodily from the Bat Theatre in Moscow. Beauty of setting, dancing and music.
PLYMOUTH: "The Jealous Moon".
Jane Cowl writes for herself a romantic story of the times when Pierrot, Harlequin and Columbine were having their wooden hearts broken on the puppet stage.
REPERTORY: "Sweet Nell of Old Drury".
Not half as bad as the title. Concerns the rise of Nell Gwynne to the place of duchess, with royal intrigue, romance and humor adding flavor.
SHUBERT: "Manhattan Mary".
Ed Wynn, the widely advertised "perfect fool", in elaborate settings by Mr. White. Supporting company adequate.
WILBUR: "The Trial of Mary Dugan".
Eighth week and still the most intensely interesting drama in town.
Screen:
LOEW'S STATE: "Wild Orchids".
Greta Garbo's final offering before leaving for her native land.
FENWAY and OLYMPIA: "Mother Machree".
Tale of mother love, moulded from the song. Belle Bennett takes the leading role.
METROPOLITAN: Tom Mix in person.
"Stark Mad" for the picture. Reviewed in this issue.
KEITH MEMORIAL: Gilda Gray in person. "Naughty Baby" for the picture, with Alice White and Jack Mulhall.



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VARSITY BOXERS DEFEATED BY NEW HAMPSHIRE 5 TO 1 Wrestlers Drop Meet to Syracuse by Score of 28 to 6

Captain Bolanos Wins--- Yearlings Lose Return Meet to Wildcat Frosh

Losing a hard fought meet, the Varsity Boxers were defeated badly by New Hampshire by the score of 5 to 1 last Saturday afternoon at Durham. Captain Bolanos, the Engineer 135 pounder, was the only Technology man to win his fight. He very cleverly outpointed the fast New Hampshire man, and was an easy victory, winning a three round decision.

Fighting in place of Orleman, who was sick in the Infirmary, Kalman lost a decision to Captain Nodes of the New Hampshire team, after putting up a wonderful fight, in which he gave both reach and height to his opponent. Saavedra, taking the place of Lamoretti, also gave his man reach, and the New Hampshire man jabbed his way to victory, winning a three round decision.

Prince, who took the place of the fast hard punching Jamieson, who is still out of condition due to a very sore hand, fought a wonderful fight and held his man even up to the last minute. This was the first Varsity fight for Prince, and he made a wonderful showing. It was only in the last round, that Bagley, the New Hampshire 145 pounder, was able to score with lefts and rights to the head, which won him the bout. The 100 pound bout was forfeit to the New Hampshire man, when Engler failed to appear against his opponent.

Roy, the Wildcat 175 pounder, took the last bout from Horton by scoring a lucky punch early in the first round, which sent the Engineer down for the count of nine, and the New Hampshire man was awarded a technical knock-out, ending the meet.

Freshmen Lose

Losing their last meet by a shut-out, the yearlings were defeated by the Kittens by the score of 4 to 0 in the preliminary to the Varsity match. Robert, who was the first to appear, missed the train to Durham and was forced to forfeit his bout to Dorsey of New Hampshire. Daniels, who won his last fight against the Kittens, was defeated by a three round decision after a hard fight, which was close up to the last minute.

Newcome, the Engineer 145 pounder, who fought his first match last Saturday, did exceptionally well against the New Hampshire frosh, but lacked the experience to win a decision over his opponent. Covert, who followed Newcome into the ring, also put up a wonderful fight against the Wildcat yearling, and came close to winning when he landed some hard punches, but lack the experience to get a decision, and the Kittens made the score 4 to 0 to end the meet.

Summary:

Varsity
One hundred fifteen pound class---

GYM TEAM WINS IN TRIANGULAR MEET

Large Gallery Witnesses Defeat
of Bowdoin and Temple by
Engineer Team

(Continued from Page 1)

chance for a scoring place on the parallels when he slipped during his second series and his foot touched the ground. He continued with the series but he had automatically ended his turn when he touched the ground. Former Captain Waller of the 1927 team was noticed among those present at the meet. Walter was the Intercollegiate Champion in tumbling when he was at Technology. A fairly large crowd witnessed the events among which fraternity men seemed to be predominant.

A summary of the meet follows:

High Bar—(1) Wells (MIT.) 533; (2) Altimore (Temple) 535; (3) Eyth (Temple) 435.
Parallel Bar—(1) Reynolds (MIT.) 581; (2) Altimore (Temple) 535; (3) Barck (Temple) 523.
Rope Climb—(1) Fairchild (MIT.) 5 2-ss.; (2) Couper (MIT.) 5 2-ss.; (3) Eyth (Temple) 5 1-2s.
Rings—(1) Reynolds (MIT.) 602; (2) Wells (MIT.) 591; (3) Altimore (Temple) 536.
Side Horse—(1) Fairchild (MIT.) 630; (2) Moore (MIT.) 560; (3) Knapp (MIT.) 498.
Tumbling—(1) Dolloff (MIT.) 583; (2) Drumm (Temple) 510; (3) Platt (MIT.) 330.
Triangle Meet Score—MIT. 41; Temple 13; Bowdoin 0.
Dual Meet Scores—MIT. 53, Bowdoin 1; MIT. 41, Temple 13; Temple 40, Bowdoin 12.

RIFLE MEN DEFEAT C.C.N.Y. BY SCORE OF 1352 TO 1270

Team Has Won Twenty-Six Meets
Out of the Thirty-four
Shot This Year

TEN TO RECEIVE MEDALS

To Meet George Washington and
Navy at Washington in
Near Future

Winning their twenty sixth meet the rifle team took C. C. N. Y. into camp last Friday, a team which is considered the best in its league. Seven men went down with Sergeant MacDonnell and five of them were high scorers, the final score being 1352 to 1270.

The rifle team has made an excellent showing this year having lost but eight meets out of a possible thirty four. They have also won the first corps area contest which is held under the auspices of the R. O. T. C. The powerful Norwich team took second and the University of N. H. placed third. Ten of the Institute men will be awarded medals for this at the freshman outdoor review sometime this spring.

Going down to Washington soon for two meets with George Washington University and the Navy the team is confident of defeating the former outfit but a stiff contest is expected with the midshipmen. The Navy has been shooting about ten points higher than the Institute marksmen. The Cardinal and Gray team which has won all its' shoulder to shoulder matches will undoubtedly give the Navy a fight. Last year the rifle team captured the Hearst trophy and there is every indication that it will still be in their possession at the end of this season.

Summary of C. C. N. Y. meet:

1st Clark	Total
2nd Pluge	278
3rd Orleman	276
4th Hamilton	274
5th Reddy	270
	254

Sports Desk

An interesting occurrence in the gym meet held last Saturday with Temple and Bowdoin was the second place tie in the rope climb. When Couper and Baack made the climb in 5 5 3/5 seconds on their second try they both cut 1/5 of a second off their previous time. In their third try they again cut their previous times as Couper did it in 5 2/5 seconds while Baack did it in 5 1/2 seconds. This occurrence is surprising in that it was the fourth climb for both men during the afternoon.

Again in the Gym Meet Saturday, Christian of Bowdoin, was ineligible. He competed, however, on an exhibition basis and if regularly entered would have taken third place.

When the varsity crew meets Navy on April 20 they will have no easy job on their hands. The Navy crews have been out on the Severn for quite some time now in comparison with the Technology crews. Their position farther south has given them this advantage over the Engineers.

Coach Hedlund is giving the freshmen different events to compete in during the lull in the season. In this way he hopes to uncover new material to fill in the open places in the weaker events. Last Wednesday he had the men all running the hurdles and uncovered some very likely prospects. He has also had them out doing field events.

The Varsity track team is on a virtual vacation while the freshmen are coming out daily for practice. There is a possibility that the Varsity may be sent to the Penn relays in the spring which means that they will not long be idle.

Interest will be turned to gym, swimming, and fencing. These activities have programs that extend through March, and some lively contests can be expected of them. The rifle team resumes its participation in collegiate competition on March 22 and 23, when they meet George Washington University and the U. S. Naval Academy respectively on a southern trip.

Yearlings Meet Second Defeat Losing to B. U. By Score of 23 to 18

In their last meet before the Intercollegiates, the Engineers lost to the Syracuse grapplers last Saturday night at Syracuse, in a one sided meet in which the Captain DerMarderosian and Cooper were the only winners, by the score of 28 to 6.

In the first match, Chibas, who has had a long period of idleness, lost his match to Flagg of Syracuse, when the Syracuse man threw Chibas, with a half-nelson after 8 minutes and 20 seconds. In the next match, the Engineers lost by time advantage of 9 minutes and 14 seconds. Peavy fought a conservative match, and held Perkins on the bottom for all but 40 seconds of the time.

Cooper, the Engineer 135 pounder, won another match to finish off the season, when he defeated Schantz in one of the closest battles of the evening by a time advantage of 21 seconds after two overtime periods, and won the first three points of the 6 made by Technology. Captain DerMarderosian again won his match by a time advantage. He wrestled a very conservative match, and handled the Syracuse man easily. This was DerMarderosian's last match before the Intercollegiates, and he is now one of the favorites of his class to win the Championship.

In the next match, Jamieson defeated Pittbladdo, the Engineer 155 pounder in a fast fray by the time advantage of 3 minutes and 34 seconds. The match was close, and several times Pittbladdo came close to pinning his man, but the Syracuse grappler was clever, and got away to win with an advantage.

Stone, who has won a large part of his meets, met an unexpected defeat last Saturday night, when he lost to Frank by a large time advantage. Stone seemed to be out of condition, and was far from his regular form. Easley, the 165 pounder also lost his match by time advantage when he was defeated by Tarbox. Tarbox came close to winning by a fall in the early part of the match, but Easley got away, and the Syracuse man won by the time advantage of 8 minutes and 33 seconds.

Kinnsman, who wrestled in place of Gordon, lost his first Varsity match by a throw after only 2 minutes and 50 seconds of wrestling. The Syracuse man, and luckily made his fall after man, and luckily made his fall after the grapplers had tossed around the mat trying for holds.

Freshman Defeated by B. U.

By the score of 23 to 18, the yearling grapplers lost to the B. U. Varsity in a very close match last Friday night in the Hangar, after the yearlings had tied the B. U. score at the beginning of the unlimited bout.

Marked by reckless wrestling, the meet lacked the careful style shown by the Varsity. Captain Vassolotti, having scored a fall in the first 4 minute period, lost his first match, when in a moment of carelessness, the Captain of the Yearlings was caught off his guard and pinned by the B. U. grappler.

Axford and Ward, who have unmarred records, ended the freshman season without a defeat, when they both pinned their opponents to the mat easily. Negus also won his match by a fall when he pinned the B. U. Varsity man with a crotch hold after 4 minutes and 27 seconds of wrestling. The match was fast and both men came close to scoring falls when the Engineer finally turned his man over after a hard struggle on the mat. Rabinowitz, the yearling unlimited wrestler, trying for a fast fall lost

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his match after having his man within an inch of the mat, was also downed in a fast scrimmage shortly after the men were on the mat.

Summary: Varsity.

One hundred fifteen-pound class—Flagg (S.) threw Chibas in 8 minutes 20 seconds.
One hundred twenty-five-pound class—Peavy (S.) defeated Perkins. Time advantage of 9 minutes 14 seconds.
One hundred thirty-five-pound class—Cooper (MIT.) defeated Schantz. Time advantage of 21 seconds. (Two overtime periods.)
One hundred forty-five-pound class—DerMarderosian (MIT.) defeated Woodside. Time advantage of 2 minutes 11 seconds.
One hundred fifty-five-pound class—Jamieson (S.) defeated Pittbladdo. Time advantage of 3 minutes 34 seconds.
One hundred sixty-five-pound class—Frank (S.) defeated Stone. Time advantage of 9 minutes 13 seconds.
One hundred seventy-five-pound class—Tarbox (S.) defeated Easley. Time advantage of 8 minutes 35 seconds.
Unlimited class—Smith (S.) threw Kinnsman in 20 minutes 50 seconds.

Summary: Freshmen.

One hundred and fifteen-pound class—Axford (MIT.) threw Cook in 7 minutes and 45 seconds with a half nelson.
One hundred and twenty-five-pound class—Smith (BU.) threw Knoepple in 58 seconds with a half nelson.
One hundred and thirty-five-pound class—Hunting (BU.) defeated Dunleavy by time advantage of 6 minutes 43 seconds.
One hundred forty-five pound class—Young threw Capt. Vassolotti in second overtime in 30 seconds.
One hundred fifty-five-pound class—Negus (MIT.) threw Mastrangelo in 4 minutes 27 seconds with a crotch hold.
One hundred sixty-five pound class—Ward (MIT.) threw Capt. Maggioni in 2 minutes and 45 seconds with a nelson-throw.
Unlimited—Stone (BU.) threw Rabinowitz in 1 minute and 13 seconds with a body roll.

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For the days are long, of waitin',
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An' try to write some poetry
To tell you of my love.
As poetry it ain't much good,
But—holy days above—
It's jest the best I can, an' so
You'll find me, when I'm through,
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NOTICES and ANNOUNCEMENTS

Of General Interest

POETRY READING "JOHN BROWN'S BODY"

By
PROFESSOR M. R. COPITHORNE
Department of English

Monday, March 11, 5:00 P.M. Walker Memorial Library

MID-WINTER PARTY OF THE FACULTY CLUB

Tuesday, March 12 North Hall, Walker Memorial
Dinner at 6:30 P.M. Dancing at 9:00 P.M.

Illustrated talk by

PROFESSOR F. K. MORRIS

Assistant Professor of Geology, Department of Geology

Adventures in Mongolia with Roy Chapman Andrews

First of a Series of Lectures on

RECENT DEVELOPMENTS IN QUANTUM MECHANICS

By
PROFESSOR W. HEISENBERG

Director of the Institute of Theoretical Physics
of the University of Leipzig

Subject
The Principle of Indetermination

Friday, March 15, at 4 P.M. Room 4-231
Open to students and members of instructing staff

Calendar

Monday, March 11

5:00—M. I. T. A. A. Meeting, Committee Room, Walker.
5:00—Poetry Reading by Professor Copithorne, Walker Library.

Tuesday, March 12

5:00—Glee Club Rehearsal, Room 10-250.
5:00—Banjo Club Meeting, East Lounge, Walker.
6:00—Faculty Club Dinner Dance, Walker.
6:00—M.I.T. Catholic Club Meeting, Riverbank Court Hotel.
8:00—Lecture on Christian Science by Charles I. Ohrenstein, Room 5-330.

Thursday, March 14

5:00—Banjo Club Meeting, East Lounge, Walker.
5:00—Glee Club Rehearsal, Room 10-250.
5:00—Institute Committee Meeting, North Hall, Walker.
3:00-10:00—Basketball Tournament, Hangar Gym.
8:30—Research Laboratory of Applied Chemistry Dance, North Hall, Walker.

Friday, March 15

3:00—Aldred Lecture by Dr. E. L. DeGolyer on "Our Mineral Virtues", Room 10-250.
3:00—A. I. E. E. Meeting, Room 10-275.
3:00-10:00—Tech Basketball Tournament, Hangar Gym.
4:00—First of Series of Lectures by Professor Werner Heisenberg on "Recent Developments in Quantum Mechanics", Room 4-231.
7:00—New England Intercollegiate Swimming Trials, University Club.
8:30—Armenian Club Costume Dance, North Hall, Walker.
9:00—Sophomore Dance, Longwood Towers.

Saturday, March 16

2:00—New England Intercollegiate Swimming Finals at University Club.
3:00-10:00—Basketball Tournament, Hangar Gym.
3:30—Boxing Meet, Varsity vs. Dartmouth, Hangar Gym.
Gym Meet, Varsity vs. Navy at Annapolis.
Fencing Semi-Finals at New Haven.

Sunday, March 17

2:00—Chinese Student Meeting, North Hall, Walker.

Monday, March 18

5:00—M. I. T. A. A. Meeting, Committee Room, Walker.

Undergraduate

TECH SHOW PICTURES

Members of the cast and chorus, or any others who would like pictures of scenes from this year's Show may obtain them by placing an order with the Tech Show office any afternoon this week. The pictures may be seen in the office any afternoon.

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NOTICE

There are still a number of vacancies in the sports department of THE TECH. Here is a great opportunity for a number of wide-awake men to get something that will be interesting and beneficial. Men who are substituting some sport for P. T. will find a great deal of enjoyment in covering the sport in which their interest lies. THE TECH tries to cooperate with men as much as possible in this respect. It develops a closer contact with the athletic side of Technology life, while at the same time it enables one to do something worthwhile in the interest of sports, and ultimately of the school in general. In order to do justice to all the athletic activities about the Institute THE TECH must have the cooperation of the live men who must exist somewhere among the student body. Come on, freshmen and Sophomores, show that you are alive, and THE TECH will help you to bring out the best you have in you.

RIDING CLASSES

Sign up today in the Main lobby for classes in riding, sponsored by the Polo Club. This is an endeavor on the part of the Polo Club to train men to become expert horsemen and also to give them a preliminary training for the sport of Polo.

LIBERAL CLUB WILL DISCUSS "RELIGION"

Professor Charles R. Skinner of Tufts College will be the speaker at the next meeting of the Liberal Club which will be held in Room 10-250 on next Thursday at 4 o'clock. The subject to be discussed will be "Science and Religion." Professor Skinner originally debated on this subject with Professor Harry E. Barnes.

NEW AUTOMOTIVE LAB NEARLY DONE

Short Time Will Mark Completion Of New Unit Of Program Of Construction

(Continued from Page 1)

larger pipes are also provided to carry off gases from the exhaust of the engines being used on the floor. These conduits will connect with a suction blower at the rear where the gases will be expelled.

The two outside bays or the longitudinal sections nearest the walls are equipped with two one ton cranes which will be hand-operated. Allowing for this service, concrete beam construction was used throughout the surface of the floor and eighteen-foot reinforced steel-concrete columns erected to provide a base for the brackets which will support the trains.

Both A. C. and D. C. conduits are provided along the track at intervals of 36 feet to give whatever power is necessary for the cars on test. The electricity for these mains, as well as the power needed for the whole building is obtained from a transformer house recently completed, situated to the right, and rear and directly adjoining the building. It will contain transformers and equipment of sufficient capacity to meet the immediate needs of the laboratory. Special high-tension lines for the transformers have been run from the main power house in the rear and enough wires have been installed to supply the power demands of the entire back group of buildings to be constructed in the future. These mains furnish 115 and 230 volts A. C. as well as the same voltages with D. C.

New Heating System

An interesting feature of the building is the absence of radiators for the supplying of heat. Two new York heat-diffusing units, thermostatically regulated, accomplish the purpose by sucking in the air from the room by means of blowers, preheating it by passing it in contact with coils of pipe through which steam flows, and by blowing it out into the laboratory again through the top of the device. The amount of heat may be further controlled by varying the pressure of the steam in the condenser from one half to one and one half pounds.

The interior of the laboratory will be used to house equipment of both the departments of Aeronautical and Mechanical Engineering, the work of the former to be in charge of Professor Charles F. Taylor. The apparatus for this department will be used almost entirely for research work and will therefore contain some special types of engines in addition to the usual models. Two special single-cylinder test engines will be used for research work or internal combustion motors and will be so arranged that variation of the valve timing and compression ratio may be accomplished while the machine is running, making them sufficiently adjustable to allow for the use of aircraft cylinders. Another mechanism to be installed, adaptable for fuel testing, is a marine single-cylinder engine with a variable compression head specially designed for the purpose in the Aeronautical Laboratory.

To Have Airplane Motor

A Wright model E4 aircraft motor will be set up which, with its eight cylinders and water cooling system, is one of the most efficient and modern of its kind. A Chrysler motor will be furnished for general research problems as distribution of fuel to the different cylinders.

At the farther end of the building will be located a dynamometer testing pit into which cars may be lowered, fastened to the iron tracks and their powers measured by gearing to a standard dynamometer. This may be accomplished without removing any of the parts of the car. With this same device many other tests may be made, including the riding qualities of the different wheels and oscillation of front wheels. In this work the use of single-sleeve valve engines will predominate.

In the other half of the laboratory will be placed the apparatus of the Department of Automotive Engineering which will be in charge of Professor Dean A. Fales, of the Mechanical Engineering Department. This equipment will be employed almost entirely for purposes of instruction.

Most of the automotive material, including electric dynamometers and water breaks, will be moved to the new location from Building 21. An airplane engine, 600 H.P. dynamometer from Building 38, and a breaker from the basement of Building 5 will also be set up in the new laboratory. All the cut-away chassis from the steam laboratory and a number from the Machine Tool Department will be used. A special tread mill chassis dynamometer will be purchased and used to obtain complete tests on all parts of the motors, including rear wheel horsepower and front wheel mobility. An additional single-cylinder engine will be used for fuel research problems.

In addition to the aeronautical and

Interior View of New Automotive Lab



ULTRA-VIOLET RAY GLASS IS STUDIED

Dr. Donald C. Stockbarger Makes Successful Tests in Research Work

Dr. Donald C. Stockbarger of the Institute has made a study of glass which will allow the ultra-violet rays of the sun to pass through it. In this branch of research it may be seen that science which has made possible the comfortable homes of today is expected to make another contribution to the homes of tomorrow. The beneficial rays of the sun cannot pass through window glass but it is hoped that with the investigation and quantity production of special glass that it will be possible for the average house to be equipped with this new window glass. Dr. Stockbarger speaking of successful tests with this new glass, said: "Within recent years, science has developed certain kinds of glass which permit the ultra-violet family to enter our homes to give us much of the benefit of unobstructed sunlight. Thus we have the assurance that the ultra-violet home is at hand and that our expectation of health, particularly during the winter months when we are indoors so much, is greatly increased." "The ultra-violet home would reverse the conventional order of room placement. The sleeping chambers, for instance, would be on the ground floor with the dining-room and kitchen, the latter placed to get as much sun as possible. The living-room, study, nursery or playroom, would be located on the second floor. Large skylights and windows equipped with ultra-violet transmitting glass would then give the rooms in which the average family spends most of its time, the benefit of sunshine most of the day."

To the average individual the ultra-violet home may seem a bit far-fetched. Scientists, however, have contributed such marvels to the American home that today a house that is without electric lights, electric refrigerator, washing machine, gas range, steam or hot-water heat, instant hot water, and many other improvements would be "a white elephant" on the hands of a house builder. Not many years ago a house with none of these luxuries was considered a "first class" home.

Away from the Grind

(Continued from Page 2)

the arrival of the Mardi Gras season. The Red Ramblers from New Hampshire State played sweet tunes to the assemblage of about one hundred and fifty couples.

THETA DELTA CHI

There was a dance also at the Theta Delta Chi house Friday night. The orchestra was Tige Jewett's, and the dance lasted until two o'clock. Mr. and Mrs. Viney were the chaperones, and there were about one hundred and fifty couples present.

automotive equipment, a small wind tunnel for research in air-cooled engines will be provided. A dark room at one corner of the building will be available for the use of both departments where spectrograms and oscillograph records may be quickly developed so as to cause little delay in the testing of mechanisms.

The aeronautical motor equipment will probably be installed sometime before summer vacation while the automotive engines are planned to be ready for use in the latter part of the summer.

POPULAR SCIENCE LECTURE AT END

Large Attendance at Final Talks of Year, Color Analyzed and Discussed

(Continued from Page 1)

was by means of a prism. This happens because the colors at the blue end of the spectrum are slowed down more than those at the red end and are therefore refracted more producing a spectrum. Cut stones also have this property. A grating composed of very fine lines cut close together on a piece of metal produces a spectrum as does a piece of celluloid cast from the metal. This is known as refraction. The blue color of the sky is made by scattering. Professor Hardy demonstrated this by precipitating sulphur from a solution of sodium hyposulphite in a glass jar placed so that a beam of light passed through it and projected the image on a screen. Slowly the solution turned blue while the image on the wall went from yellow to red. This accounts why the sunrise is often red. Professor Hardy made soap bubbles to show the beautiful colors produced in this case by interference. Interference also accounts for the beautiful colors seen when a layer of oil forms on water, and the color of insect wings.

When light that is allowed to vibrate in only one plane is passed through mica consisting of layers of different thickness and then through an analyzer, colors are produced. The lecturer showed butterflies cut in mica which were gorgeously colored when placed in the path of this polarized light. This phenomenon has a great commercial use as the imperfections in glass for instance can easily be seen when held in the path of this light, and the stress and strain in members of bridges or gears cut in miniature from celluloid can actually be seen. When objects painted with certain kinds of dyes are held in the path of ultra violet rays they fluoresce even after the light has been turned off. Teeth also exhibit the property of fluorescing in this kind of light. Professor Hardy explained that the color of "colored" transparent objects is due to the fact that they transmit only their own color. He demonstrated this by passing a red glass in front of a spectrum projected on the wall. It cut off all the colors except the red. This is known as selective trans-have color because the reflect only mission. Opaque objects seem to have color because they reflect only those colors of which they are composed.

Measurement of Color

From many years shrdl cmfwy For many years colors were measured by comparing them with magnesium carbonate, the standard "white", in a machine known as a spectrophotometer. Determining the color of a object usually took about half an hour. Several years ago when the professors at the Institute decided to make a long series of tests to determine what color really was, they realized that using such a method was too slow. They therefore started work on a new machine and produced the M.I.T. Color Analyzer that makes a curve of the color of any object placed in it in just thirty seconds and of course much more accurately than man can do.

Color has a great industrial importance as for instance knowing when bananas are ripe, seeing how well a laundry washes clothes, comparing shades in dresses, etc. Professor Hardy showed color curves of some commercial products that were made on the color analyzer. In closing the lecturer predicted that within a few years color would be taught from charts as made by the analyzer just as music is today taught from scales.

LOWELL INSTITUTE SPONSORS ADDRESS

"War and Economic Motives", is the title of a lecture to be given in Huntington Hall at 5 o'clock tomorrow afternoon. This address is the fifth of a series on "Economics and Sovereignty", given under the auspices of Lowell Institute, by Mr. R. G. Hawtrey, Assistant Secretary to the Treasury, Whitehall, London, and Lecturer on Economics at Harvard University. The sixth and last lecture of the series, "The Future", will be given on Friday afternoon.

These lectures are open to the public, and tickets may be secured by applying by mail to the curator of the Lowell Institute, 491 Boylston Street, and enclosing one stamped, addressed envelope for each ticket desired.

Beneath the University of Minnesota are over three miles of tunnels which are used for carrying heat from the main heating plant to the various buildings.