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WOLVERINES WILL PLAY EIGHT GAMES

University Opens One Week Later Next Year and Case Faces Michigan on Oct. 9

MYSTERIOUS "OPEN DATE" ON SCHEDULE PROVES MERE MYTH

Early Games Automatically Move Along One Week From Last Season

Michigan will probably play but eight football games next fall, owing to the fact that the university does not open until a week later than last fall. As usual, the Cornell and Pennsylvania games will come the first two Saturdays in November, and there are only four Saturdays in October after the opening of college on Tuesday, Oct. 5.

Last fall classes began on Tuesday, Sept. 29, and the football season opened the next day with the De Pauw game. There were five Saturdays in October, the two usual November games, and two mid-week practice scraps. Although no official announcement has yet been made in regard to the 1915 schedule, it seems likely that there will be two big November games, four Saturday October contests, and two matinee tilts on early Wednesday dates.

The mysterious "open date" on the Maize and Blue battle list, therefore, is a myth. The early games will be automatically shoved along, no doubt, and the Yostmen will have one less early game in preparation for the major contests with the east.

As near as can be guessed, the Wolverine dates will be as follows, plus two Wednesday games:—

Oct. 9—Case.
Oct. 16—Mount Union.
Oct. 23—M. A. C.
Oct. 30—Syracuse.
Nov. 6—Cornell.
Nov. 13—Pennsylvania at Philadelphia.

HEALTH OFFICIALS CONFIDENT OF CHECK IN SMALLPOX SCARE

Remove Quarantine on Hospital Wards; 50 Students Given Vaccine Yesterday

Health service officials expressed themselves yesterday as confident that the epidemic of smallpox has passed its crisis. No new cases have been reported since Monday, and with the vaccination of all those who were in contact with Howard Gray, '17A, besides numerous other students, they believe that the danger of an epidemic of the disease has been reduced to a minimum. More than 50 were given the vaccine yesterday as a further preventive of a spread of the infection.

The quarantine on the wards of the university hospital, where the patients suffering from smallpox are confined, was removed yesterday. Authorities at the hospital said last night that Gray's condition was improving daily. His roommate, A. K. MacNaughton, '16E, will be discharged, as he has shown no symptoms of the malady.

City health officials, acting under Dr. J. A. Wessinger, city health officer, have taken precautions to prevent a spread of the disease, by fumigating all places where Gray is known to have been, and by advising a general vaccination of all persons in Ann Arbor.

ENGINEERING SOCIETY GREETS IMPENDING HORRORS IN DANCE

With the paradoxical motto, "Moraterl salutamus," the Engineering society will endeavor to drive away preexamination cares at the dance to be given in Barbour gym next Thursday.

Many features have been planned by the committee in charge, consisting of Don Smith, '16E, Howard Enos,'15E, Russell Mills, '15E, Allen Ricketts, '15E, and John Naylon, '15E. The Mandolin quartette will play special music for the occasion, while Herbert Bartholf, '16E, and L. E. Hughes, '16E, will show the new steps of modern dances.

An eight piece orchestra will furnish the music. Tickets are on sale by the committee for 50 cents to the society members, and 75 cents to others. The chaperons for the affair will be announced later.

Today and Tomorrow

TODAY

Belgian Relief concert, 8:00 o'clock, Hill auditorium.
Soph lit smoker at Union, 7:30 o'clock.
Technic dinner at Union, 6:00 o'clock.

TOMORROW

Meeting of the Catholic students' club at 8:00 o'clock in St. Thomas hall.

OPERA COMMITTEE ALTERS PERSONNEL

Francis Mack, '16E, Replaces Richard Thorsch, '16, as Assistant to Chairman

CHORUS MEN TRYOUT TUESDAY

Francis Mack, '16E, has been appointed an assistant to the general chairman of the 1915 Opera, to fill the vacancy caused by the resignation of Richard Thorsch, '16. Harry Frank, '16L, will fill the place formerly held by Mack, on the costumes committee. With these changes the personnel of of the committee is now complete, but for the assistants to the treasurer, who will be chosen from the sophomore class.

Tryouts for the chorus, as previously announced, will take place Tuesday night at 7:00 o'clock, in the large room at the Union. The emphasis at this time will be placed on dancing, as judged from the execution of the modern steps. More men will be chosen than will be required. L. E. Hughes, '16E, dancing director of the production, will be on hand to take either the man's or woman's part, with those who are unable to secure partners.

Posters will be judged today, and the drawings which secure the first places, will be put on exhibition in the window of a State street store, before they are sent to the engravers.

The lyrics are now being rearranged by the author and will be sent to the music publishers in the near future. After the trials Tuesday night, activity in preparing the show for production will cease until after examinations.

DISSENSION STIRS FIRST YEAR CLASS

President and Members Argue in Heat Over Division of Powers

DEAN ANNOUNCES ASSEMBLIES

Strong dissension over the appointment of a committee for the installation of an assembly and the alleged arbitrary method of Pres. M S.Colleton in running the class, nearly precipitated a hand to hand fight at the meeting of the fresh lit class in the economics building yesterday afternoon. After considerable discussion, the appointment of the committee was left to the president and the question of conducting the class was laid over to the next meeting.

In a short talk on college spirit, Dean John R. Effinger told the class that freshman assemblies for the literary department, similar to those in the engineering department would soon be established. The class voted to support the assemblies. A motion to adopt a class yell was defeated. It was further decided to have a social program at each meeting. Besides Dean Effinger's talk, yesterday's program consisted of a skit and a song by Z. E. Lamb, '18, and a gypsy impersonation and feature dance by Rowena Bastian, '18.

President Harry B. Hutchins and Mrs. Hutchins, Dean J. R. Effinger and Mrs. Effinger, Registrar A. G. Hall and Mrs. Hall and Dean Myra B. Jordan were announced as the chaperons for the annual dance in Barbour gymnasium Saturday afternoon. The entertainment committee is arranging several features and will also attempt to get several well known campus en-

(Continued on page 6.)

DECORATORS PLAN GARDEN IN VENICE

Elaborate Ornamentation Requiring 2,000,000 Feet of Festooning Will Greet Guests at J-Hop

YESTERDAY'S MEETINGS FAIL TO ACT FINALLY ON FAVORS

Sentiment to Help Committee Prevails But Individual Groups Will Decide

Guests at the Junior hop will step into a Venetian garden scene, according to the plan of decoration which will be submitted to the hop committee today or tomorrow by the Huntinghouse Cotillion company of Chicago, with whom the contract has been let.

The decorations this year, it is understood, will be the most costly and elaborate which have ever been used for this function. The booths will imitate miniature pagodas. Two million feet of festooning will be used, and artificial flowers and vines will be intertwined with many colored lights. About two weeks before the hop, a number of carpenters and decorators will arrive here from Chicago to carry out the plans.

Music for the dance has not been selected yet, but the committee has asked the Varsity band and Finzel's orchestra to submit lists of pieces from which to select. No spotlight dances will be held, although several schemes for feature dances are being considered. There will be four favors for each person, which will be given out during the cotillion.

An agreement has been reached with the local taxicab companies under which no price higher than $2.00 will be charged on this night. As it is expected there will be some delay in securing service at this time, the first few dances of the evening will be preliminary, and not on the program.

No decisive action was taken at the meeting of managers of fraternities and house clubs yesterday afternoon, except that it was suggested that they should not give flowers. The matter of favors will probably be decided independently by each organization. This committee has no power to legislate and can only suggest. No action was taken by the interfraternity conference, but the general sentiment to cooperate with the hop committee in every way possible prevailed.

Tickets for chaperons without escorts are to cost $2.00. Sales at the Union today amounted to 33 tickets, while about 100 had been sold previous to this time. In order to secure a booth, the party applying must have control of 12 tickets, since the booths will accommodate this number of couples, unless the plans of the decorators have been changed. Sales of booths starts January 25, at 25 cents per couple.

A smoker for all interested in the hop, where those intending to attend may become acquainted and start their programs, has been arranged by the committee to take place at 7:30 o'clock next Thursday, at the Union.

ATTENDANCE AT RIFLE RANGE FALLS IN PRACTICE SHOOTS

Officials Fear Best Men Will Not Be Selected For Varsity Team

With a roll call of 96 in the Michigan Rifle club only about 25 or 30 men are turning out each afternoon to take the regular practice, in training for the Saturday afternoon tryouts. The men who turn out are usually the same 25 or 30, while some of the members of the organization have not as yet reported at the Ann Arbor armory for any work.

Michigan's first intercollegiate match is scheduled for Jan. 23, and ten men will be picked to shoot in the first match. Unless every man turns out for the trials, and for the practice afternoons there is a possibility that the ten best men will not represent Michigan when the match is shot.

"The only way to insure a fair chance for each individual, and for the team is to have every member of the Rifle club appear for practice regularly, and hand in his targets so the officials can judge the ranking of the men," said H. A. Moul, eng. spec., president of the club yesterday.

WATER CLUB MAPS COURSE FOR CREW

Student Surveyors Will Map Out Path Mile and Seven-Eighths Long on Huron River

EXPERTS CLAIM WATER TANK IS ONE OF BEST IN COUNTRY

Enthusiasm for Eventual Varsity Crew Wins Support for Project

Plans for a crew course were acted upon and election of new officers were part of the business carried through at a meeting of the Michigan Union Boat club at the Union last night.

Student surveyors are being signed up to map out the proposed race course on Argo pond sometime this week, while the ice is still strong on the river. The course which is slightly curved and about one and seven-eighths miles long, is declared by men formerly connected with eastern crews to be the best in the country.

Cooperation of the Detroit Boat club has been secured through the aid of Grover Farnsworth, of Detroit, who was in Ann Arbor to look over the situation last week. Money is being raised among the 2,000 alumni in and about Detroit, for the establishment of shell racing at the university, and two excellent eight-oared shells have been promised by parties in Detroit.

Intramural Director Floyd Rowe is working on a campus championship plan whereby the crew of the winning class would receive numerals. Matches are promised by the Detroit Boat club, and, according to plans, a boat house will be constructed by students before the spring regatta. The Eastern Michigan Edison company has promised a site and $1,000, and a Detroit firm is being solicited to furnish lumber. In a few years a Varsity crew, capable of strong eastern competition, is in sight.

W. W. Watson, '16E, was elected vice-commodore of the club in the place of Earl B. McKinley, '16, who is now commodore. H. H. Phillips, '16E, was chosen treasurer to fill the place vacated by Harry G. Gault, '15, and W. B. Palmer, '15, is now second ensign. The newly appointed commodore's committee are H. S. Parsons, '15E, H. G. Gault, '15, P. D. Koontz, '17L, S. S. Dickinson, '15L, Prof. H. C. Sadler, and Director Floyd Rowe.

CHICAGO ARTISTS EXHIBIT WORK

Art Association Arranges Daily Public View in Alumni Hall

Representative paintings of Chicago's most prominent artists are now placed on exhibition in Memorial hall under the auspices of the Ann Arbor Art association. The pictures are from the collection of the Chicago Society of Artists, and are the recent work of living painters, both men and women. There are over 45 pictures in the exhibit, which is open daily for the benefit of the public. The paintings will remain on exhibition until after Sunday.

The group of pictures includes four landscape paintings by Gardner Symons. Symons is an artist who has had to fight his way to the top amid many misfortunes and hardships, but he is now rated as one of the best landscape painters in the country. Miss Adam Emory Albright has contributed "The Enchanted Hour," which took first prize at the recent Chicago exhibit.

Simply entitled "A Portrait," the painting by Elizabeth K. Peyraud has drawn forth much favorable criticism by those viewing it.

PROF. J. C. KNOWLTON SPEAKS AT SUNDAY MAJESTIC MEETING

Prof. J. C. Knowlton, of the law department, will be the speaker at next Sunday's "Y" Majestic meeting. He will talk on the subject "The Trial of Jesus from the Lawyer's Standpoint." The meeting opens with moving pictures at 6:10 o'clock and the lecture starts at 6:30 o'clock.

Soph Lits Will Hold Smoker Tonight

Soph lits will hold their first smoker of the year at the Michigan Union at 8:00 o'clock tonight. F. W. Ivey, instructor in economics, and Captain Smith, of the track team, will give short talks.

Hollis Addresses Engineers' Assembly

President Hollis, of Worcester Polytechnic institute, who is the guest of Dean M. E. Cooley, spoke to the engineering students at their assembly yesterday morning. President Hollis and Dean Cooley were classmates at Annapolis and on the three year cruise which immediately followed their graduation.

Icy Sidewalks Make R. H. Mills Victim

Russell Mills, '15E, leader of the Mandolin club and president of the mechanical branch of the Engineering society, who slipped on an icy sidewalk last Sunday evening, and broke his ankle, is still confined to his home.

VARSITY DEBATERS TALK IN EVANSTON

One Team to Uphold Michigan Against Northwestern, Another Meets Chicago

POLITICAL QUESTION TAKEN UP

One of Michigan's two Central league debating teams, consisting of James A. Phelps, '15L, Herbert D. Oppenheimer, '16L, and Samuel Witting, '15, leaves for Evanston, Illinois, to defend the negative side against Northwestern university tomorrow night, while the other opposes Chicago in Ann Arbor. The question is "Resolved: that the Monroe Doctrine, as developed and applied by the United States, should be abandoned as a part of our foreign policy."

Phelps debated two years for the Illinois State Normal college against the Indiana State Normal college and is president of the Lyceum club. Oppenheimer represented his high school in a state contest and won the James Forensic medal in an inter-society debate. Witting was a member of last year's team which debated the University of Chicago, is president of Delta Sigma Rho, and a member of the Lyceum club.

The judges of the contest are Pres. Samuel Plantz, of Lawrence college, Wisconsin, Pres. T. H. McMichael, of Monmouth college, Illinois, and Prof. P. S. Pierce, of the University of Iowa. The presiding officer will be Prof. A. B. Deibler, of Northwestern university.

Prof. R. D. T. Hollister, of the oratory department, who is in charge of the team, said last night that the squad has been working daily for several weeks and the chances for success seem exceptionally bright.

UNDER FIRE, MOCKS WAR'S EXCITEMENT

S. B. Conger, '00, Journalist on Battlefield, Write Letter to Homer Heath

PROUD OF GAME WITH HARVARD

S. B. Conger, '00, a newspaper man in Berlin, has written a letter to Homer L. Heath, '07, manager of the Michigan Union, which expresses his loyalty to Michigan, and at the same time throws sharp light on the true existing conditions of the present.

The letter was read at the meeting of the directors of the Union. It was dated December 11, and was addressed to Homer Heath, treasurer of the "M" club. Following is the full text of the letter.

"Herewith please find check for $5.80 for my dues to the "M" club. I should have attended to the matter long ago, but we were so busy making war over here that it had slipped my mind until I came across Mr. Killela's letter this morning.

"Just got back yesterday from a visit to the trenches on the French front. I was right up in the front lines a good share of the time, but it is really not so exciting as it sounds, as even if one does get under fire, he is so well protected in the deep trenches and approaches that there is absolutely no sense of danger.

"Take it from me, nine-tenths of the stuff that is being written by correspondents about exciting scenes and experiences on the battle-field, charging infantry, riderless horses galloping about, bullets and shrapnel whistling about one's ears, etc., is pure bunk.

(Continued on page 6.)

CONCERT WILL AID STARVED BELGIANS

Popular Classics Will Constitute Musical Program by Local Talent in Hill Auditorium

COMMITTEE HESITATES OVER EXACT FORM OF BENEFACTION

Theodore Harrison Says Program Will Delight Music-Lovers and Sympathizers

Michigan students will be given their opportunity to help in the work of aiding the sufferers in the present European war, when the Belgian Relief concert is given at 8:00 o'clock tonight in Hill auditorium. Leonora Allen and Albert Lindquest, both students in the school of music, will appear on the program.

The numbers on the program will consist of the better known classics, and will include three selections by Brahms, one from the opera "La Boheme," by Puccini, and one by Carrie Jacobs Bond. The complete program is given elsewhere.

The funds from the concert will be disposed of by a committee selected by the Ann Arbor Civic association. It has not been definitely decided to what use to put the money, but it is probable that it will be sent to a New York organization which has been handling similar funds. Their plan has been to buy the food supplies, which are sent to the Belgians, in the district from which the money was sent.

Students from Yale University have sent 12 automobiles for the use of the American Red Cross in Europe, and Harvard has donated five.

Theodore Harrison, head of the vocal department of the school of music, expressed himself yesterday as heartily in favor of the movement. "The program selected is a delightful one," he said, "and will undoubtedly please not only music-lovers, but also those who attend the concert out of sympathy with the movement which it represents."

The management of the Arcade theater has agreed to give a free show tonight to all those who have tickets for the concert.

TICKETS FOR DICKEY'S PLAY GO ON SALE TO DRAMA CLUB

"The Misleading Lady" Will Play at Whitney Theater Wednesday

Tickets for "The Misleading Lady," by Paul Dickey, ex-'06, to be presented next Wednesday evening under the auspices of the Drama league of Ann Arbor, will go on sale tomorrow for members of the league. Members of the Union will have the privilege of obtaining pasteboards Saturday, provided they have signed the affiliated membership pledges, to be had at the desk of the Union.

Several of the pledges, which entitle the signers to reservations in the advance seat sales for the three plays to be given under the auspices of the league next semester, have already been given out. The pledges will be withdrawn by the league Saturday.

More than 100 affiliated membership pledges have been signed by members of those sororities, which are affiliated clubs of the league. Officers of the league will make an effort to induce the fraternities on the campus to become affiliated, as they are of the opinion that more students would avail themselves of the privileges of the organization, if they were acquainted with its methods and purposes.

EXTENSION AUDIENCES HEAR TALKS ON VARIETY OF TOPICS

Under the auspices of the university extension lecture service, two lectures will be given today. Prof. R. M. Wenley will speak at Bay City on "Morality and Humor," and Prof. A. A. Stanley will talk at DeWitt on "Folk-Song."

Prof. Aubrey Tealdi will speak tomorrow on "Home Grounds and their Improvement" at Fremont; Prof. L. A. Strauss will lecture at Lapeer on "The Poetry of Robert Browning"; Prof. J. R. Brumm will speak at North Star on "The Escape from the Commonplace"; and Prof. W. D. Henderson will talk at Sturgis on "The Boy Problem."

'FLYING SQUADRON' TO STOP FOR TALKS

Nation Wide Prohibition Movement to Detail Speakers to Ann Arbor

CAMPAIGN LASTS THREE DAYS

Ann Arbor will be visited next week by "The Flying Squadron of America," which comes in the interest of the movement for nation wide prohibition. Afternoon and evening meetings will be held in the Presbyterian church January 21, 22 and 23.

This "Flying Squadron" is the outcome of a movement which started at Columbus, Ohio, in 1913. It includes some of the most prominent speakers of the day and is making a tour covering 150 of the largest cities in America. Detroit was visited in November. The speakers come here from Jackson, Michigan, and go from here to Buffalo, New York.

The aim of the movement it is said, is to give this subject frank and intelligent discussion, eliminating the cant and fanaticism which seemed to be the old time temperance orators' stock in trade. Admission is free and students and citizens are invited to attend by those in charge.

The speakers are as follows:

Thursday—

Dr. Charles M. Sheldon, author of "In His Steps."

Daniel A. Poling, national superintendent of temperance and Christian citizenship of the Christian Endeavor.

Friday—

Dr. Ira Landreth, president of Ward-Belmont college, Nashville, Tennessee.

Dr. Wilbur F. Sheridan, general secretary of the Epworth League.

Dr. Caroline L. Geisel of Battle Creek sanitarium.

Saturday—

Hon. J. Frank Hanly, former governor of Indiana.

Hon. Oliver W. Stewart, former member of the Illinois legislature.

Hon. John R. Lewis, former member of the Massachusetts legislature.

A pianist and a soloist will come with each group of speakers.

At The Library

THE CHANGING DRAMA

By Archibald Henderson (808.2 H5e).

The author names cosmopolitanism as being one of the chief requirements of the drama of the present age. The dramatist must appeal, not only to his own countrymen, but to the people of all nations. He, therefore, must have a wide knowledge of humanity and absolute control of dramatic technic.

The drama exists today, not as an example of "art for art's sake," but as an example of "art for life's sake." It has a very definite intent toward which every detail must play its part. Very often the object is one of social reform, in which case the play reflects one of the strongest currents of thought of present day life.

The author speaks at some length regarding the change of attitude toward the three unities originated by Aristotle. In this connection, he mentions the addition of a fourth unity—the creation of an atmosphere. He names Maeterlinck as a conspicuous example of the master of a peculiar technic that creates a definite atmosphere which plays a strong part in revealing the intent of the play.

Plays are concerned with average people and every day circumstances and not with mysterious and romantic situations as formerly. They appeal to a thinking, intelligent public, rather than to the pleasure-seeking audience.

There is a constantly growing tendency toward doing away with the so-called "hero" of a play and substituting in his place a unity of impression. "The modern drama is marked by that creeping paralysis of external action of which Maeterlinck speaks. The interpreter of contemporary life has discovered that an emotion is as thrilling a dramatic theme as an action." Present day drama is first and last an expression of the life and thought of the people.

L. R. B.

Who's Who at Michigan

WOOSTER WOODRUFF BEMAN, MATHEMATICS DEPARTMENT

Professor Wooster Woodruff Beman, of the Mathematics department, of the University of Michigan, and formerly an instructor in Greek, was born at Southampton, Conn., on May 28, 1850. His parents, both of whom were lineal descendants of early New England settlers, lived in the state of Connecticut during the boyhood of the future university professor. However, they early removed to the state of Indiana and it was here that Professor Beman received the primary education which fitted him for his later university course.

Part of his prep work was taken at the Valparaiso Male and Female college, and he finished the preparation for his college course at the Valparaiso Collegiate Institute. Upon his graduation from there in 1869, he matriculated at the University of Michigan from which he was graduated in 1870, with the degree of Bachelor of Arts.

During his senior year at the university, he was elected to Phi Beta Kappa. In the next three years he did special work, and in 1873 the Board of Regents conferred the degree of Master of Arts upon him. Thirty-five years later, in 1908, he received the honorary degree of Doctor of Laws and Literature from Kalamazoo College.

During the major part of the years 1870-1871, he was engaged as an instructor in Greek and mathematics at Kalamazoo college. In the fall of 1871 he left this position to accept a call to the faculty of the University of Michigan, and he has been on the faculty of this university ever since. His first position was as an instructor in mathematics until 1874, when he was appointed to the post of an assistant professor in the same subject. In 1882 he was raised to the chair of associate professor, and in 1887 he was made a full professor of mathematics.

He is a member of the American Association for the Advancement of Science, the American Mathematical society, and several other national pedagogic organizations. He has also been honored by membership in the London Mathematical society, the Circolo Matematico di Palermo, and other foreign scientific societies. He is a Baptist, a Democrat in politics, and an author, having written several textbooks on mathematics that are in general use in educational institutions throughout the country.

DR. IDEN WILL GIVE LECTURES ON SCIENTIFIC SIDE OF BIBLE

Dr. Thomas M. Iden, who conducts the Upper Room Bible class and the university men's class at the Church of Christ, will offer a series of lectures on "Some Scientific Aspects of Religion and of the Bible," Thursday evenings, beginning tomorrow. The series will consist of 10 or 12 lectures. They are open to university students, though others may attend. There is no expense connected with attendance upon these lectures.

The lectures will be given at the Bible Chair house, 444 South State street, and will begin promptly at 6:30 o'clock, closing at 7:15 o'clock. They will be discontinued during the examination period but will be resumed at the opening of the next semester.

522 Holmes Taxicab Co. 522. tf

GRADUATES GIVE TRAVELOGUE ON CHICAGO LECTURE COURSE

Hiram S. Cody, '08, and Arthur F. Curtis, '11, are lecturing in Chicago in connection with the annual Chicago News lecture course. "California and Her Expositions" is the subject of one of the addresses which Mr. Cody will give. The other lecture is on the subject of "Cycling through England and the Continent."

Mr. Curtis will speak on "The State of Michigan," and in this connection he will show many views of the university. All three of the lectures will be fully illustrated with hand-colored lantern slides. Mr. Cody's address on Europe was given in Ann Arbor in 1909 under the auspices of the Cercle Francais.

University Ave. Pharmacy Fountain Pens and Students Supplies. tf

NEW RECORDS MARK PROGRESS OF 1915 TRACK SQUAD HOPES

Carroll, Lynch and Robinson, Hang Up New Time on Chart Placed in Gymnasium

Several new marks have been hung up on the indoor track sheet record in the gym, since the chart was installed Monday afternoon.

Carroll, the captain of last year's all-fresh squad was the first to have his name entered in the mile column, the sophomore turning in a mark of 4:48. Lynch, the two-miler on the fresh team two years ago, but who was not in college last year, bettered Carroll's mark later by two seconds, covering the distance in 4:46. This is creditable time for so early in the season, although the mark will probably fall later on in the year.

M. G. Robinson was the first to go down on the chart over the three lap distance, doing it in 3:27 2-5. Hardell, one of the candidates for the all-fresh track team held the four lap record for a day, although Darby has lowered his mark of 1:06 2-5 by more than a second, getting credit for 1:05 1-5.

Donnelley's mark of 2:51 for nine laps still stands, and apparently seems destined to do so for some time, although it will probably fall when the men round into better condition. Coach Farrell stated that he would not be surprised to see it stand, however, until after the examinations.

"Jimmy" Craig was out yesterday afternoon assisting Coach Farrell with the sprinters. Craig announced that he would continue to turn out in the afternoon as much as possible to assist "Steve." An effort will be made to get "Hap" Hall to turn out also, to assist Coach Farrell in whipping the team into shape. Both of these men were track stars in former years, and their presence would materially assist.

HARVARD PROFESSOR TO SPEAK

Masaharu Anesaki Will Talk on Art and Religious Subjects

Masaharu Anesaki, graduate of the Imperial University of Tokyo, and at present professor of Japanese Literature and Life at Harvard, will lecture in Ann Arbor at 4:15 o'clock February 11 and 12. The lectures will be given in Alumni Memorial hall, and are open to all who are interested in Japanese art and religion.

The address Thursday afternoon will be on "Japanese Art," and will be fully illustrated by over 50 lantern slides. The talk will be in the nature of a general survey of Japanese art as a whole. On Friday, "A Prophet of Japanese Buddhism" will be the subject on which Professor Anesaki will talk.

Professor Anesaki has studied in Germany, England and India, and has had several books published in English, besides many in the Japanese language.

GARI MELCHERS, NOTED ARTIST, PAYS VISIT TO THE UNIVERSITY

Gari Melchers, noted Detroit artist, was in Ann Arbor Tuesday for a short visit.

Dr. Melchers was granted the honorary degree of LL.D by the University of Michigan two years ago, under circumstances that necessitated, for the first time, the waiving of the requirement that all recipients of degrees be present at the time of the award. This exceptional action was taken as the result of illness contracted by Dr. Melchers on the journey from Paris to Ann Arbor, which forced him to be confined to a hospital in New York for some time. During this confinement the degree was granted.

PROF. L. H. HOUGH GIVES NEXT LECTURE IN WESLEYAN SERIES

Prof. Lynn H. Hough, of the Garrett Biblical Institute, Evanston, Illinois, will give the next Wesleyan Guild lecture at the Methodist church at 7:30 o'clock Sunday. He will take for his topic "The Strategy of the Cross."

Professor Hough has held pastorates in several of the largest eastern churches, his last charge being the Mount Vernon Place church in Baltimore where he served for six years. He left this field to become head of the Garrett institute which is run in connection with Northwestern university.

Make Area-meter in Engineering Shop

Among the intricate implements being made in the engineering shops are a two spindle polishing table, a device for graduating glass and steel measuring apparatus, and an area-meter. The first two will be used as part of the equipment in the engineering department.

The area-meter, which is a machine for automatically calculating areas, is yet in patent litigation as an invention of John Airey, an instructor of mathematics in the engineering department.

BUILDING HOUSES NOVEL MACHINERY

Engineering Structure Provides Class Rooms and Laboratories For Students

BY PROFESSOR J. E. EMSWILER

After the first wing of the new engineering building had been planned and built, in 1904, it can well be imagined that the faculty and regents must have sat back and heaved a sigh of contentment with the thought that it would accommodate the work of the engineering department for a good many generations of classes to come. But the years tumultuously succeeding saw that wonderful growth of the university in general, and of the engineering department in particular, so that by the year 1910 it had become necessary to extend the building to its present dimensions. And even now, the department finds itself constricted in space for much of its work.

The building contains the offices of the dean, assistant dean, and secretary of the departments of engineering and architecture. It houses all the work of the several subdepartments, except chemical engineering, shop work, surveying and some of the language work. The department of forestry also occupies a part of the building.

One of the objectionable features of the building is the presence of laboratories and classrooms in such close proximity to each other.

The automobile laboratory and the brick kettler, have entrenched themselves firmly at the top of the list as the best noise producers.

The laboratories, of course, furnish the material expression of the work done in the department. And since engineering deals essentially with material things, it is but natural that the laboratories should be extensive. The new engineering building contains the laboratories of the departments of engineering mechanics, electrical engineering including dynamo-electric machinery and telephones and telegraphs; marine engineering; mechanical engineering including hydraulic machinery and automobiles; and civil engineering which is represented by the highway engineering laboratory.

The telephone laboratory includes the campus exchange of the Michigan State Telephone company. It is located just off the arch, in the west side. A little further beyond, is the operating room of the wireless station. The aerials stretch from two poles 800 feet apart just south of the building, and also from the 150-foot stack of the old Power House.

The highway laboratory is an establishment of comparatively recent beginning. So closely is work of this kind connected with the public welfare of the state, that the regents have ruled that all material samples be tested free of charge.

The engineering mechanics laboratory contains machines and apparatus for determining the physical properties of the materials which enter into engineering construction, chiefly iron, steel, wood, and concrete. The most important of these properties is their strength, so most of the machines in the laboratory are built for determining how much pull, or push, or twist, or bending, a sample of material will undergo before breaking. Not only are samples tested, but complete parts of machines, as for example automobile wheels, and engine crank shafts. The capacities of the testing machines vary the laboratory are built for determining how much pull, or push, or twist a sample of material will undergo before breaking. The capacities of the testing machines vary from a small one used for measuring the strength of wire, up to a giant which can exert a pull or a push of 200,000 pounds, and at the same time measure that force exactly.

On the north side of the archway, just inside the door, is the entrance to the marine engineering laboratory and naval tank. This tank is the only one in existence in this country outside the one at Washington owned by the U. S. Government. The tank is 500 feet long, 22 feet wide, and 10 feet deep. A traveling bridge spans the width of the tank on the bridge, of which are located the measuring and testing apparatus. The boat model is pulled along underneath the bridge, by a part of the mechanism which projects down to it. The instruments above draw lines which furnish a complete record of the resistance of the model, together with other important information. The boat models are made of paraffine, which first are cast, then cut down by an ingenious machine devised by Prof. Sailer, to the lines required by the drawing, and finally finished to a smooth surface by hand.

Farther along, on the same floor, is the laboratory of the Forestry department, where may be seen specimens and sections of nearly all different kinds of wood. In addition, the Forestry department is now installing machines for testing the investigation of the strength of different kinds of wood.

Still farther along the corridor, is the entrance to the lower floor of the mechanical laboratory. The apparatus on this floor consists of hydraulic machinery, the larger steam engines and gas engines, a small steam boiler house heating furnaces, the machine and apparatus of the automobile laboratory, air compressors, an ice making plant, and two large tanks installed permanently on scales, for measuring large quantities of water. Each tank can hold 40,000 pounds of water.

Among the apparatus of most general interest on this floor are the pumps which furnish the water for fire protection on the campus. Two of these are rotary pumps driven by electric motors, which can be operated from current supplied either from the lines of the Eastern Michigan Edison Co., or from the new university power plant. The pumps draw their supply of water from the naval tank, which holds about 500,000 gallons. One of the pumps is located beneath the level of the water in the naval tank, so that it will never have to suck water up to its level, thus eliminating a difficulty which sometimes gives trouble in getting the water started. Besides these there is an old Blake reciprocating pump which saved the old medical building in the summer of 1910, and no doubt prevented the destruction of University hall at the time of the fire in the south wing a few years ago. The two rotary pumps can deliver 75,000 gallons each per hour while the Blake pump can handle 40,000 gallons.

The automobile laboratory has, among other features of interest, a flock of eight or ten automobile engines of from one to six cylinders; a new electric dynamometer for testing, and a complete chassis. The disappointing thing about the chassis is that it can not be made to run on its own power, owing to sundry slices being cut here and there out of its most important mechanism. But these cut out places enable one to see just operating their combined delivery how the different inside parts of an automobile work.

The smaller engines and other machinery are located on the upper floor of the mechanical laboratory. On this floor, also are two steam turbines. When running full speed, the shaft of one of these machines—the De Laval turbine—makes 20,000 turns in a minute. The wheel, which carries the blades, on which the steam acts, is only 9 inches in diameter. If it were allowed to roll along on the ground at the speed at which it runs in the turbine, it would make the trip from Ann Arbor to Chicago and return in 56 minutes, including the climb up State St. hill. Or if a silver dollar were tied to the rim of this wheel, the centrifugal force would make it try to get away with a pull of about a ton and a half. Such a machine could never save money in this way, but it is more successful where used for producing power.

The electrical engineering laboratory occupies the lower floor of the extreme north end of the building. Electrical machinery gives an observer an impression quite different from the machinery in the mechanical laboratory, because he can not see very much "works" about them. But the electrical engineer has a number of instruments which tell him what is going on inside his machine. One of the most interesting of these is the electrical laboratory is the oscillograph, used for observing and recording the shape of the wave curve of an alternating current circuit.

To the unmechanically inclined, the new engineering building offers some attractions of interest. The pictures and drawings exhibited by the Department of Architecture are always of interest.

The department has projecting lanterns and many hundreds of lantern slides for instructional work. Some of the lanterns have reflecting attachments whereby pictures in books or catalogs may be thrown upon the screen.

For the proper ventilation of the building, there are three great fans, besides several smaller ones. The fans are concealed within the dark recesses of the "fan rooms," and are seldom seen by students, except those who take up the study of Heating and Ventilation. When the three fans are cut out places enable one to see just operating their combined delivery how the different inside parts of an automobile work.

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