

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 8.

LANSING, MICHIGAN, TUESDAY, MARCH 17, 1903.

No. 26

## NOTICE.

All students intending to try for the track team, especially those in all events except the weights, are requested to join the baseball squad in its regular daily run (5:45). The selections for the team will necessarily have to be made very early in the spring term, and all candidates should get themselves in as good condition as possible at once. The first try-out will be held the last Saturday of the present term.

An effort is being made to get an accurate list of the best records made by M. A. C. students in all track and field events. Any information concerning such records from the students, alumni, and friends of the College may be given or sent to the physical director.

GEO. E. DENMAN,  
Physical Director.

A type-written list of names of students for the College catalog will be placed in College Hall this week. There are bound to be errors in this list and consequently each student finding such errors is asked to report the same to Mr. Stiles at the President's office. Do not make corrections on the posted list. Spelling, the m's and w's after the name, name or postoffice, county, and class should be observed in particular. Anyone reporting errors in the spelling of names of students no longer in college will confer a favor. Teachers and officers of M. A. C. are requested to report to Mr. Stiles their names and degrees.

The King's Daughters wish to thank those who contributed to the the hospital box, and Messrs. Higgs & Burton for delivering the box. The Circle will meet with Mrs. Snyder, Wednesday, March eighteenth, at three o'clock. Mrs. Hubbard and Miss Harding will address the meeting. All members and friends of the Circle are invited.

Basketball—Lady Teachers of the School for the Deaf vs. M. A. C. girls—Armory, Saturday, 3 p. m. Admission, 25 cents.

## GRAND RAPIDS BEATEN.

M. A. C. beat the Grand Rapids Y. M. C. A. in basketball Saturday evening in the armory in one of the most remarkable games ever played at the College, the final score being 42 to 7. During the preliminary practice, Grand Rapids appeared to have a very strong team but M. A. C. succeeded in running away with the visitors as has been the case in all previous games this year.

The teams lined up about 8:30 and on the toss up Balbach sent the ball to Haftenkamp who in his turn passed it to Balbach, and within thirty seconds Balbach secured a basket which was not allowed, however, since Grand Rapids had fouled immediately preceding the play. Balbach succeeded in throwing a basket on the foul.

In this manner the game proceeded, fouls being called occasionally. Toward the close of the half Godwin threw a basket for the Y. M. C. A. The score at the close of the

first half was M. A. C. 20, Y. M. C. A. 5.

The second half was a repetition of the first, and the final score was, M. A. C. 42, Grand Rapids 7. M. A. C. had the best team work shown this season. The passing on the part of Balbach was nothing short of the marvelous. Every M. A. C. man was in the game all the time, and with the exception of one or two instances no Y. M. C. A. man was left in the open. The Grand Rapids team, after the contest, stated that Kalamazoo, which defeated Grand Rapids a short time ago, would stand no show against M. A. C. One of the most pleasant features of the game was the disposition of players, officials and audience to be absolutely fair.

The applause succeeding good plays by the Y. M. C. A. was commendable and showed the true sportsman spirit. As an indication that the game was fast, it should be observed that M. A. C. threw four baskets which were not allowed since fouls by Grand Rapids had been made immediately preceding the score.

The line up:

M. A. C.		GRAND RAPIDS
Haftenkamp	forwards	Godwin
Schaefer		Irwin
Balbach	center	Van Aldern
Tower	guards	Clay
Tuttle		Ward

Time of halves, 20 minutes each. Officials: Millar, referee; Bolte of M. A. C. and Williams of Grand Rapids, umpires. Baskets from floor: Balbach, 3; Haftenkamp, 6; Tuttle, 5; Tower, 3; Schaefer, 1; Godwin, 1. Baskets from fouls: Balbach, 6; Van Aldern, 5. Fouls—M. A. C., 13. Grand Rapids, 11. Score, M. A. C., 42, Grand Rapids, 7.

## THE CHAMPIONSHIP OF THE UNITED STATES.

As we go to press, negotiations are pending for a basketball game to be played in the armory between M. A. C. and the University of Minnesota team. It is possible, at least, that Minnesota can be secured but it will take a snug sum of money. Provided a game for the CHAMPIONSHIP OF THE UNITED STATES, can be arranged will you kindly lend your hearty financial support? This support will be needed.

Those who have seen both M. A. C. and the University of Minnesota play know that M. A. C. would have an even chance to win in case the two teams should meet. It is expected that Minnesota will soon be heard from. Watch for further developments.

## MILITARY HOP.

The hop, given by the battalion officers last Friday evening, proved very successful. About seventy couples attended, making about the smallest military in some time. This was largely due to the elimination of the ten o'clocks, resulting in several of the early parties of the term being continued until eleven instead of stopping at ten as on former years. The armory seemed

more tastefully decorated than ever, bunting and plants lending a softening effect to the usually bare walls, while the music in the center amid bright colors and handsome plants was an object of pleasure to every eye.

An orchestra of eight pieces under the leadership of Mr. Prost, furnished the music, which was highly appreciated, almost every dance being encored. Prof. and Mrs. Atkins proved genial chaperones.

## THE LAST BOTANICAL CLUB MEETING

Was an unusually interesting one. Miss Hettie Wright spoke of "Our Early Spring Wild Flowers," naming among other plants the skunk cabbage, bloodroot, violet, trillium, spring beauty, anemone, hepatica, columbine and cowslip, with brief descriptions of their appearance and uses.

Miss Jessie Palmer read a paper on the "Relations of Light to Foliage Leaves." She mentioned the various modifications in position and arrangement of leaves to adapt them to varying amounts and directions of light.

Mr. Wright then showed an interesting experiment in water culture. Some bean plants had been grown in distilled water, tap water, and perfect nutrient solution till they began to bear fruit and the differences in root and stem development were then pointed out. Mr. Morrison spoke of injury caused to campus trees by hitching horses.

Dr. Beal called attention to a clear four-page summary of Gregor Mendel's Law of Heredity by Prof. Bailey in *The Independent* for Jan. 22d, which those who waded through Bateson's essay last term will do well to read.

Tonight (March 17th) Messrs. Seelye and Schaefer will speak on the "Physiology of Plants," and officers will be elected for next term. March 24th, the last meeting this term, Bronson Barlow will read a paper on the "Defense of plants against animals," and the retiring president, Moses Craig, will speak on "Plant hygiene."

According to recent Boston papers, much unfavorable comment has been made upon Prof. Hollis because of his recent utterances in regard to the Yale vs. Harvard football game and Prof. Hollis is no longer chairman of the Crimson athletic committee. A recent statement reads: An interesting canvass has been made among Harvard men on the question brought up recently by Professor Hollis, chairman of the Crimson athletic committee, regarding football between Yale and Harvard. Twenty-four students voted in favor of abolishing the annual game between the universities, while 344 opposed such a step. Large majorities indorsed the opinion that a more open style of play would improve the game, and that the objectionable features of football could be eliminated without injuring the game as a sport.

GEO. E. DENMAN.

## ALUMNI.

'96. Mr. R. E. Doolittle, analyst for the State Dairy and Food Commission, will give an address this week before the Grand Traverse Dairymen's Association. His subject is: "Future Dairy Legislation."

'01. Miss Fleta Paddock visited over Sunday with her sister at the College.

'01. On Saturday, March 21st, at 8 o'clock p. m., will occur the marriage of Mr. Roy L. Brown, '01, to Miss May Nelson at the home of the bride's parents in Menominee, Mich.

### ALUMNI IN THE SOUTH.

Prof. C. D. Smith met several alumni in the South during his recent trip: At the A. and M. College, Brazos County, Texas, he found Prof. Edward C. Green, '97, and Prof. J. Dwight Sanderson, '97, the former being professor of horticulture and the latter professor of entomology. At Tyler, Texas, he met Allan H. Stone, '99, who is in the civil engineering department of the Cotton Belt Railroad.

### M. A. C. GRADUATES IN ILLINOIS.

In a little tour in Illinois recently the writer had the pleasure of meeting an unusually large number of M. A. C. graduates. The occasion of the trip was to attend the Illinois State Farmers' Institute which corresponds to our Round-Up Institute. The meeting was held at Bloomington. Five of our alumni had places on the program—a fact remarked upon several times by Illinois speakers. These were P. G. Holden, '89, from Ames, Iowa; Eugene Davenport, '78, and H. W. Mumford, '91, Champaign, Illinois; F. B. Mumford, '91, Columbia, Missouri; and U. P. Hedrick, '93, Agricultural College, Michigan.

Beside those having a part on the program there were Mr. and Mrs. C. P. Reynolds, with '03. Mr. Reynolds occupies the very responsible position of Director of the State Institute from the first Congressional District, Illinois.

The second point in our itinerary was Champaign to visit the University of Illinois. Quite a colony of M. A. C. people are to be found here. Besides those mentioned above are G. A. Goodenough, '91; F. R. Crane, '99; Professor Breckenridge, formerly in charge of the Mechanical Department here; and Mr. A. R. Curtiss, at one time foreman of our woodshops. A delightful evening was spent at the home of Mr. and Mrs. Goodenough, added to whose company were Professor Breckenridge and Mr. and Mrs. Curtiss.

On the way home, passing through Chicago, a pleasant hour was spent at White's restaurant, the M. A. C. rendezvous, with Prof. Woodworth, '86; D. T. Randall, '96; W. A. Rider, with '95; J. W. Perrigo, '94; and S. J. Kennedy, '01. The writer was hospitably entertained over night at the home of Mr. and Mrs. C. P. Reynolds. U. P. H.

# THE M. A. C. RECORD.

PUBLISHED EVERY TUESDAY DURING THE  
COLLEGE YEAR BY THE  
MICHIGAN STATE AGRICULTURAL COLLEGE

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TUESDAY, MAR. 17, 1903.

## STATE NORMAL COLLEGE- M. A. C. DEBATE.

The debate between the State Normal College and M. A. C. took place at Ypsilanti Friday evening. The question was: "Resolved, That government ownership and operation of railroads in the United States is desirable." The State Normal College, upholding the affirmative, was awarded the favorable decision of the judges by a vote of 2 to 1.

The first affirmative speaker outlined the doctrine that railroads are a function of government, and that the state has no right to delegate its functions. The speaker offered no definition of function of government, but cited the fact that the courts had affirmed railroads to be a function of government.

The second affirmative speaker showed that present conditions are bad and argued that state control has proved a failure. The third speaker for the Normal College showed how the government might acquire railroads.

Mr. Hartman, the first speaker for M. A. C. defending the negative, said, that the affirmative would have to prove (1) that present conditions will be remedied by government ownership; (2) that no other system would be a better remedy for present evils; (3) that government ownership would not introduce greater evils than exist at present. He argued that state ownership would not and had not eliminated the evils complained of, and that it had the disadvantage of restricting private initiative.

Mr. Anderson, the second speaker for M. A. C. showed that state government organization is not adapted to the running of commercial enterprises. He also argued that state government would break down and has broken down through inability to handle state enterprises.

Mr. Moore, the last speaker, showed that state ownership would have a tendency to overthrow our form of government, that it would

tend toward socialism, and that it would put an oligarchy in power. State control, he said, had none of these evils and would do the work effectively.

Speaking in less detail, M. A. C. was the better in rebuttal but the Normal college evidently used sarcasm effectively. It was conceded by many unprejudiced persons, for example, some members of the faculty of Cleary college and several Normal college students that M. A. C. had the better of the argument. In the opinion of Dr. Edwards M. A. C. was better in acquaintance with the question, in familiarity with all the facts bearing upon the matter, in directness and cogency of rebuttal, and in general bearing upon the platform.

The decision of the majority of the judges was determined evidently by the readiness of repartee and the greater earnestness in delivery on the part of Ypsilanti. The judges were: Hon. Levi Barbour of Detroit, Judge Newkirk of the Washtenaw Probate Court, and Hon. Lawton Hemans of Mason. Dr. Edwards and Mr. Morbeck accompanied the team to Ypsilanti.

The question is being agitated whether M. A. C. shall make a new agreement with the Normal College for a series of debates. Dr. Edwards would like to see at the Debating Club meeting, Thursday evening at 7 o'clock, all students who are interested in the matter. We are to be proud of the debating team of 1903 and our great regret should be that no body of students accompanied the team to Ypsilanti. Let everyone who can, attend the Thursday evening meeting.

## CONSTITUTION AND BY- LAWS OF THE M. I. A. A.

At the last meeting of the Board of Directors of the M. I. A. A. the constitution and by-laws were adopted practically as published in THE RECORD of Jan. 27th in abridged form.

There were, however, some small errors in that article, as follows:

Under the Constitution the Articles were printed in the following order: Article III, IV (III, IV, V, VI, VII) V and VI, VII, VIII, of these, those articles bracketed should have been placed under By-Laws Division I. The last three articles of which should be numbered VIII, IX, X, instead of IX, X, XI.

In Art. V and VI of Constitution the last two lines should read: "Also prescribes date of annual Field Day meeting of Board." In By-Laws Div. I, the word annual should be stricken out, and in Rule 2, Division 2, the word not should be introduced before affect in 8th line.

Beside the subjects covered in the summary on January 27th, the by-laws include rules governing the various competitions as follows:

Division III. Rules governing annual field day. Rule 1. Order of events. The semi-final and final baseball games shall be held on Friday and Saturday afternoons respectively. The track events on Friday afternoon and Saturday morning with the relay Saturday afternoon. The indoor meet Friday evening.

The outdoor meet consists of 120 and 220 yard hurdles, 100, 220, 440, 880 yds. One and two mile runs, running high and broad jumps, discus throw, putting 16-lb. shot, throwing 16-lb. hammer, pole vault, and punting football.

The indoor meet consists of feather, light, middle and heavy-weight wrestling, individual club swinging, tumbling, horizontal and parallel bar competitions.

Rule II. That College shall be champion whose team scores the most points in the out door meet. Firsts shall count five points, seconds three and thirds one, in case

of tie, points shall be divided. If two or more colleges receive the same total score the champion of the previous year, if one of the tie, shall remain champion or if not one of the tie the championship shall not be awarded.

Rule III. Provides a pennant for the field and track meet.

Rule IV. Governs officials and their duties.

Section I. All meets shall be under the general direction of The Board of Directors, one referee, two or more inspectors, three or more judges, three or more time keepers, one clerk of course, one scorer, one marshal.

Section 2. If necessary, the last three may have assistants and an official announcer may be appointed.

Section 3. The board of directors shall have general charge.

Section 4. Prescribes the duties of the referee. He has executive charge of conduct of meet, may change order of events, but cannot change a man from one heat to another, after drawings for heats are posted.

He may disqualify any competitor for a foul or misconduct and give hindered competitors another trial. As starter he shall take charge of men after they are placed, and shall start by pistol intentionally fired. A false start is made when a competitor touches the ground in front of the mark, before the starting signal. Penalties for same are set-backs of from one to ten yards, first offense, and twice as much for second, a third shall disqualify.

Section 5. Inspectors are to watch contests and furnish evidence in case of foul.

Section 6. The judges shall determine order of finishing in track and take measurements, etc., in field events.

Three judges shall act in each event, and a majority shall govern.

Section 7. Three time-keepers shall individually time each event, and shall show watches to referee, who must decide official time. Should two of the watches agree this time shall be accepted. If all disagree the intermediate time is taken. The flash of pistol denotes time starting. If two watches only are held the longest time is accepted. For a record three watches must be held.

Section 8. Clerk of Course shall notify all entered competitors to be ready to start in each event in which they are entered.

Section 9. Scorer shall record order of finishes together with time from referee. He shall file a list of these results with the papers of the association.

Section 10. The Marshal must have full police charge of enclosure and must prevent any but officials and actual competitors from entering or remaining therein.

Section 11. Provides for announcing.

Section 12. Competitors must report to the Clerk, immediately upon arrival at place of meeting, must receive number and wear it conspicuously when competing, without it they must not be allowed to start. Each competitor must inform himself of time of starting and be at starting point in time. Under no conditions shall any attendant be allowed to accompany competitors at the start, or during any competition.

Section 13. All distances shall be measured on a line 18 inches outward from inner edge of track. In straight away, measurements must be taken from starting mark to finishing line.

Section 14. In all races up to and including the 220 yards each competitor must have a separate course marked out and measured, and in longer runs no competitor may cross to the inner edge of track except when at least six feet in advance of nearest competitor and after turning the last corner must run a straight course to the finish line.

The referee must disqualify from that event any competitor who wilfully pushes against, impedes, crosses the course of or in any way interferes with another competitor and must disqualify from further participation in the meet any contestant competing to lose, to coach, or to in any way impede the chances of another.

Section 15. The finish must be represented by a line between two posts, three feet above this must be placed a tape attached at either end to a post. A finish is counted when any part of the winner's body except his hands and arms touches the tape.

Division IV. Baseball. Each team shall play one game with every other, the standing of any team shall be determined by the percentage of the games played and won. The teams holding the second and third highest percentages shall play the semi-final field day game, and the winner of this, play the team holding the highest percentage, in the final game. The winner of this last game shall be champion and receive a pennant. Any ties in the percentages must be played off before field day.

Divisions V and VI. Football and basketball are placed under the eligibility rules. There shall be no M. I. A. A. championship in either.

Division VII. Indoor meet. The same rules apply as for the outdoor meet, with the following exceptions: No member shall enter more than five men, nor start more than one in wrestling, or two in the other events. In the case of tumbling not more than eight shall be entered, nor over five start. The winner shall receive a pennant.

Division VIII. Tennis. There shall be four tournaments, Gentlemen's singles and doubles; Ladies' singles and doubles. The pairings for every match shall be decided by lot. Every person or team which has been defeated by the final winner only shall have an equal chance for second place. Only first and seconds shall score the winner receiving a pennant.

Division IX. Medals shall be awarded as follows: Gold and silver medals shall be awarded for firsts and seconds in the outdoor (including each of relay team), indoor and tennis meets. No medals shall be awarded for tumbling.

A standing rule provides that the six colleges be arranged in order by lot, which order shall be used to arrange a baseball schedule by which each college plays alternately at home and away. The succeeding year the order is reversed. This will not affect the games already scheduled for 1903.

It will be noted that by these by-laws the  
(Continued on page four.)

## THE DONSEREAUX CLOTHING & GROCERY CO'S

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Is now being distributed for the Opening Sale of  
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special sale exclusively for the College and College-  
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A. M. DONSEREAUX.

# ABOUT THE CAMPUS.

Major Vernou now has outdoor drill during all the days for drill.

Instructor Holbrook will move into Howard Terrace in a few weeks.

Mr. Brackett of Lansing has again offered a cup for the winning relay team at the M. I. A. A. meet.

Mrs. C. D. Smith is home from a trip to Connecticut. On her return she stopped at Cornell University though not for long because of the typhoid fever.

The horticultural department is spraying for scale insects the elm trees about the College grounds. The newly acquired sprayer is used for the work.

Board in the various clubs has been audited for the winter term as follows: A, \$2.12; B, \$2.35; C, \$1.65; D, \$2.53; E, \$2.35; G, \$1.76; H, \$1.80.

Prof. Taft was in South Haven last week arranging the work for the coming season. He also attended a meeting of the South Haven and Casco Pomological Society.

Officers of the Hesperian Society for the spring term are as follows: Mr. Hedges, President; Mr. Fargo, Vice President; Mr. Palmer, Secretary; Mr. Dodge, Treasurer; Mr. Knickerhocker, Janitor.

The A. Z. Fraternity pin, which disappeared so mysteriously at the Olympic party a week ago Saturday night has been as mysteriously found. Finder will be glad to meet the owner at the library at 5:30 Wednesday afternoon to return the pin.

Mr. O. B. Burrell is slowly recovering from a severe attack of erysipelas.

President Snyder has bought some Guernsey cows for his farm between the city and the College.

The Olympic Society will hold its term-end program and banquet Saturday evening. Armstrong and Rose will serve dinner *a la française*.

Mrs. C. E. Marshall visited in the east for a short time, while the Doctor was arranging his work in preparation for the trip abroad. Dr. Marshall left Friday for the East.

Richies Unique Entertainers appeared at M. A. C. last evening. We have not space to describe the entertainment in detail. However, there was much coarseness displayed by the company, for which there is no excuse.

The Olympic Society has elected officers for the spring term as follows: President, G. C. Sevey; Vice President, P. B. Pierce; Secretary, H. A. French; Treasurer, H. G. Walker; Record Editor, Clyde Armstrong; Marshal, W. F. Carleton.

The special cheese course for 1903 ended Friday noon. Fifteen took the course this year and the work done was very satisfactory. The class departed slightly from the work of previous years in that some sage cheese was made and the paraffine cheese experimented with. The paraffine cheese does away with the deleterious effects of moisture and prevents mold.

The early arrival of spring weather has brought colds in various forms to many college people.

Miss B. A. Earl, who is visiting in Philadelphia, expects to return in about a month.

The farm department office has on exhibition the Zenner medal won by Mr. W. P. Snyder. The medal is of silver.

Professor C. D. Smith and Instructor John Michels will attend the Grand Traverse Dairymen's Association this week. The former will talk on "True and False in Selection of Dairy Cows." Mr. Michels will talk on "How to Make Good Butter for Market."

The Columbian Literary Society has elected the following officers for next term: President, James G. Moore; Vice President, W. J. Wright; Secretary, C. L. Poole; Sec. of Records, W. P. Robinson; Treasurer, W. F. Jordan; Record Editor, F. H. Sanford; Marshal, L. J. Smith.

Mr. R. C. Benner, formerly instructor in chemistry spent Sunday at the College, taking in the basketball game Saturday evening. He admitted that M. A. C. compares very favorably with the championship team of the university of Minnesota. Mr. Benner enjoys his work at Jackson very much.

Prof. C. D. Smith makes the observation that Michigan is being outdone in the fruit industry, especially is this true as regards the growing of strawberries, apples and peaches. The Southwest, Southern Mis-

souri and Texas in particular are forging to the front in the raising of fruit. From one station, Sarcosie there were shipped in 1902, 237 carloads of strawberries, from another station, Republic, 65 carloads, while of peaches 1,200,000 trees are said to have been set out last year in one section of Missouri alone. The same rapid growth in the growing of peaches characterizes Eastern Texas.

While he was south, Prof. Smith saw on a monument in Austin, Texas, these words, which explain themselves:

Died  
For State Rights  
guaranteed by the Constitution.  
The people of the South, animated by the spirit of 1776, to preserve their rights withdrew from the Federal Compact in 1861. The North resorted to coercion. The South, against overwhelming numbers and resources, fought until exhausted.

The orations and orators for the State Oratorical Contest to be held at Olivet March 26th, are as follows: Adrian, "An Ideal Man," Clark A. Robinson; Albion, "The Greatest Man," Arthur C. Clough; Hillsdale, "The Plumed Knight of the American Republic," F. M. Langworthy; Hope, "John Sobieski," Abraham J. Muste; Kalamazoo, "A Study of Destiny," Hubert S. Upjohn; Agricultural College, "Damien," Frank J. Phillips; State Normal College, "Fort Wagner," Guy Bates; Olivet, "The Battle of Tours," Finis Bentley.

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## CONSTITUTION AND BY-LAWS OF THE M. I. A. A.

(Continued from page two)

indoor meet and tennis have both been separated from the outdoor meet and will have separate pennants, while previously their scores were added into the totals.

The admission fee will be a quarter each for Friday afternoon and evening and Saturday morning and afternoon, or seventy-five cents for the four periods. A fee of fifteen cents will be charged for tennis matches held previous to Friday afternoon.

It is unfortunate that there is no football championship, as a cup was offered in that last fall and may now remain at Olivet for all time.

Mr. Brackett will offer a cup for the relay.

## TAU BETA PI.

Last Thursday evening the Tau Beta Pi Fraternity held an open meeting in the chapel, to which were invited the engineering students in the senior, junior and sophomore classes.

The program consisted of two papers and a talk by Mr. Waterbury. The first paper was on "The Steam Turbine." It was written by Mr. Yates, but owing to his illness it was read by Mr. Wheeler. Mr. Yates pointed out that the steam turbine uses steam more economically than the average steam engine and, on account of its uniform torque, is especially adapted to run alternating current generators. Some of the recent steam turbines have a capacity of 5,000 k. w. (about 6,700 horse power) and are operating satisfactorily. De Laval perhaps has made the most inventions in connection with the steam turbine, and his inventions may be regarded as among the most remarkable in steam engineering. They have placed the steam turbine in the foremost rank among heat motors. Since steam turbines run at an enormous speed, sometimes as high as 1,500 feet per second, and since it is almost impossible to balance the revolving parts to run without vibration at such a high speed. De Laval made use of a flexible shaft which allows the parts to revolve about their center of gravity irrespective of whether this is the center of the shaft or not.

Mr. Johnson presented a paper on "Fuels and Their Distribution." The paper comprised a short account of the geologic formation of coals, including lignite and peat. The fuels for making steam are bituminous and semi-bituminous and anthracite coals, wood, petroleum, gas, bagasse, peat and lignite. At the present price petroleum can compete successfully with coal for making steam, but its use has been confined chiefly to the regions where it is found. The owners of large plants are slow to install oil burners on account of the uncertainty of the oil supply and the price fluctuations.

The last on the program was a talk on "Sink Holes" by Mr. Waterbury. He had a profile blueprint of a part of the Grand Trunk roadbed in the vicinity of Haslett Park, showing several sink holes, some of which are causing the railroad considerable trouble. Sink holes were originally holes scooped out by glaciers in which ponds were formed. Owing to the stillness of the water these ponds became covered with a kind of moss which collected earth from the neighboring hills. Vegetation started to grow and the crust gradually increased in thickness until it became strong

enough to carry wagons and even railroads. The extra weight put on in grading for a double track, has caused this crust to break where it has held before, thus causing considerable trouble and expense.

## ASSOCIATION NEWS.

"Am I my brother's keeper" was the theme of the Thursday evening prayer meeting. This question is as old as the human race, so far as we know. It is the foundation stone of Christ's teaching, and is the highest grace of civilized, enlightened nations, out of it has grown the modern spirit of the "Brotherhood of man and the Fatherhood of God." To be my brother's keeper means that I love him as myself, that is, that so far from doing anything that will injure him in any way or make him unhappy, I will take advantage of every opportunity to help him and make him happy, it means that Jesus Christ really influences my life, from the fact that He dwells continually in my affections. These are a few thoughts brought out by Mr. R. F. Bell as leader.

Rev. G. F. Plummer conducted the chapel services Sunday morning. The services were well attended and many practical truths discussed.

Mr. Burt Wermuth, as leader of the union meeting in discussing the qualifications of opportunity brought out the truth that to be able to recognize opportunities, we must be trained to see them and that training consists very largely in making use of those little opportunities that we can recognize.

Mr. Charles D. Hurrey will be here Friday, Saturday, and Sunday, and would be pleased to meet all the men, personally, as far as possible. Watch for announcements of meetings. Mr. Hurrey would like to have all the men connected with the College and others interested in the best things in life attend these meetings.

'94. D. D. McArthur has been promoted to the Superintendency of the Indian Training School, Fort Magave, Arizona.

'02. William Krieger has gone to the Iowa Agricultural College where he will be an assistant in horticulture.

'02. Mr. Orla L. Ayrs has returned from a trip through southeastern Michigan where he has been inspecting orchards.

'91. Professor W. O. Hedrick will leave soon for Ann Arbor where he will complete the work necessary for a Ph. D.

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