

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 9.

LANSING, MICHIGAN, TUESDAY, OCT. 27, 1903.

No. 6

FOOTBALL.

M. A. C. 0—Notre Dame 12.

M. A. C. 11—Alma 0.

M. A. C. 11—Kalamazoo 0.

M. A. C. 11—U. of M. Freshmen 0.

For the third time in succession M. A. C. has defeated her opponents with the score of 11 to 0. The U. of M. All-Freshmen were the last victims. They came full of confidence, for they had won every game so far, except the 0 to 0 game with Albion, had received special attention from Coach Yost and were composed of last year's star high school players. M. A. C. had a slight advantage in weight, but only two pounds if the U. of M. gave their correct average.

M. A. C. kicked off and the Freshmen were forced to punt. M. A. C. lost on downs and by severe playing the ball was carried to her 8-yard line. She evidently did not solve Yost's style till the goal became dangerous. However, M. A. C. took a brace, held for downs and then carried the ball rapidly down the field. Peters made 45 yards through tackle and Decker plunged through for another long gain. After an end run or two, Doty made a touchdown which McKenna converted into a goal. After an exchange of punts the half ended, M. A. C. 6, U. of M. 0.

In the second half M. A. C. received the kick off but lost the ball on a fumble. It was regained but lost on downs at the 10-yard line. The Freshmen carried it to the 20-yard line where they again lost on downs. Millar made the second touch down after a series of plays by the ends and halves. Score, M. A. C. 5, U. of M. 0.

ALL-FRESHMAN.

	M. A. C.
Werkman	i. c. Shaw, Holdsworth
Nelson, Long	i. t. Peters
Thompson	i. g. Lampke
Work	c. Decker
Clements	r. g. Case
Patrick	r. t. Kratz
Rumney	r. e. Ashley
Becker (Capt.)	q. Small
Bartlett, Allen	i. h. Millar
Kirby	r. h. McKenna
St. Clare, Bartlett	f. b. Doty, Shaw

Referee, Waterbury, Lansing. Umpire, Hopkins, M. A. C. Head linesman, Close, Lansing. Time of halves, 20 minutes. Attendance, 500.

NOTES ON THE GAME.

The freshmen were too slow in starting.

M. A. C.'s line was invincible.

Peters' long gain was the feature.

M. A. C. found no difficulty in going through opponents' line.

McKenna and Millar were good ground gainers.

M. A. C.'s interference was good and all played a strong game.

Work was no match for Decker, neither was Clements for Lampke, nor Thompson for Case.

After the first 10 minutes the freshmen weren't in it.

Cornell university has abandoned her work in forestry. Two of her former students are now pursuing that work at M. A. C.

MECHANICAL ENGINEERING TRIP TO CHICAGO.

Prof. Weil and Messrs. Shedd and Leonard accompanied by 28 engineering students made the annual trip of inspection to the most important plants of Chicago. The party left on Thursday afternoon, Oct. 22. On Friday morning at 8 o'clock the work began. For the sake of thoroughness, the party was divided into three sections each taking a different route. This account will follow one section.

The first place visited was Ellis & Chalmers. This firm does special work along the line of hydraulic machinery and mining equipment. They supplied the Kimberly mines of South Africa and are known all over the world.

Siegel, Cooper & Co. was the next firm inspected. The special features here were the large lighting plant, pneumatic cash carriers and ice machines.

On Friday afternoon the real object of the trip was accomplished, the visit to the Illinois Steel Co. This concern employs 6,000 men and does an immense business. Prof. Weil and Mr. Post, of the firm, conducted the sections through this plant. The processes of manufacturing steel were carefully studied. One thing very noticeable was the small amount of belting, and another the fact that everything was handled by machinery. The whole of Friday afternoon was profitably spent in this place.

On Saturday forenoon a hasty view was taken of Marshall, Field & Co.'s large store. The object was to get an idea of the contents as well as the system used in handling 7,400 clerks.

The last place visited was the Chicago Edison Co. The electrical machinery was carefully examined. The method of handling the coal was quite interesting. The coal is taken from the cars to hoppers above the boilers and from these the coal is supplied as needed. The ashes are removed automatically. The company has two 7000 H. P. engines and consequently the method of handling the coal by machinery saves a large amount of drudgery.

In the afternoon the boys went as they pleased. Some came home, others visited minor plants and still others saw the Chicago-Illinois game where the rooting was better than the playing.

All the Juniors are enthusiastic over the trip and pronounce it a decided success. Ideas are enlarged and much valuable experience is secured through these inspections. They are conducted systematically and form an additional factor in securing a practical education.

ZOOLOGICAL CLUB.

A zoological club has been formed this term which meets every Tuesday evening at 6:30 in the zoological laboratory. The object is to discuss some of the interesting problems of animal life and compare notes in regard to the various animals of the

state—mammals, birds, reptiles, fish, insects, etc. The work of the club will be under the direction of the department of zoology, but the meetings will be very informal and will not be restricted to members of the classes in that department; any student who is interested will be welcome. At the meeting last Tuesday Professor Barrows exhibited the recently purchased specimen of the great gray owl, the largest and one of the rarest species, and compared it with the ten other species found in the state, showing specimens of each.

The habits of muskrats, woodchucks, and flying spiders also received some attention.

W. H. GILBERT DEAD.

W. H. Gilbert died at Bay City on Sunday, Oct. 18. He was Michigan's largest beet grower and was instrumental in establishing several factories. He was also a dairy expert and had charge of the federal dairy food exhibit at the world's fair in Chicago. During the past six years he has done a great deal of work in the state farmers' institutes.

MRS. LUCY ALLYN HAIGH.

In the death of Mrs. Lucy Allyn Haigh, of Dearborn, Mich., M. A. C. loses one of its strong friends and supporters. She induced many a young man to attend this college and through her sacrifice enabled all of her children to enroll as students. George W. Haigh entered in 1858 and Thomas Haigh in 1860. Both enlisted at the outbreak of the Civil war in Company D., 24th Michigan Volunteer Infantry and served with distinction. Richard Haigh, Jr., graduated in 1869 and was secretary of the college from 1871 to 1873. Bessie Haigh, wife of Prof. Frank A. Gully of the class of '80, was a student at M. A. C. from 1879 to 1881. Henry Allyn Haigh, now a prominent attorney in Detroit, graduated in 1874. This is a record of which any family has reason to feel proud.

Mrs. Haigh was the warm personal friend of President Abbot's family and the families of most of the older members of the college faculty.

THE NEW SOCIETY.

The M. A. C. literary society was organized last Saturday evening and is now ready for business. The first literary meeting will be held next Saturday evening at 7:45 in the Armory. Those wishing to join should hand in their applications. Mr. Bos of the Junior class was elected president and Mr. Ayr's secretary.

FOUND.

Mr. W. S. Leonard has found an A. O. U. W. pin.

Mrs. W. O. Hedrick has found a lady's purse.

ALUMNI.

'74.

Charles L. Bemis, Supt. of schools at Ionia, has been appointed a member of the committee to arrange a uniform course of study for the high schools of Michigan.

With '87.

Hon. Chas. E. Bassett, secretary of the state horticultural society, spent a few hours at the College last Wednesday looking up material for the annual meeting to be held in Traverse City early in December.

'88.

W. F. Staley, examiner of mineral claims in the general land office at Washington, D. C., recently spent a few days at Lyons, Mich., on his return trip to Washington. He had spent six weeks in Arizona and New Mexico for the U. S. government.

Prof. C. L. Weil called on Prof. P. M. Chamberlain and wife on his recent trip to Chicago with the Junior class. Prof. Chamberlain has charge of the department of engineering at Lewis Institute. The department has been considerably enlarged of late. The reports of all M. A. C. men are very favorable.

'91.

E. P. Safford is still with the L. S. and M. S. R. R. He is roadmaster and is located at Hillsdale, Mich.

Geo. C. Monroe is cashier of a bank in South Haven, Mich.

With '95.

Robt. A. McKim owns a farm on Pennsylvania Ave., Lansing, Mich.

With '98.

J. E. Tarbell is a teacher in the Philippines at a salary of \$1200 per year. He is located at Pacay, Province of Ilocos Norte, Luzon.

With '99.

J. L. Sutherland is attorney at law and general solicitor in chancery at Portland, Mich.

'00.

J. R. Thompson is now superintendent of the Chicago, Milwaukee & St. Paul R. R. roundhouse at Calmar, Iowa. He was previously employed in the office of the superintendent of motor power in Milwaukee.

'01.

John T. Coats is drafting for the Colorado Fuel & Iron Co. at Pueblo, Colo.

Fred L. Radford was married to Miss Mabelle Northrup, of Lansing, Mich., on Sept. 9th. They reside at 503 Main St., Lansing. Mr. Radford is drafting for the Olds Automobile Co. It is rather late to print the above item, but ye editor had no information till Oct. 26.

Mark L. Ireland, of Washington, D. C., has sent in some very interesting items for THE RECORD. He is drafting in the Ordnance Division of the War Department.

THE M. A. C. RECORD.

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

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Subscription, - - - 50 cents per year.

Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.

Address all subscriptions and advertising matter to the College Secretary, Agricultural College, Mich. Address all contributions to the Managing Editor.

Business Office with Lawrence & Van Buren Printing Co., 122 Ottawa St. E., Lansing, Mich. Entered as second-class mail matter, Lansing, Mich.

This paper is occasionally sent to non subscribers. Such persons need have no hesitation about taking the paper from the post-office, for no charge will be made for it. The only way, however, to secure the paper regularly is to subscribe.

TUESDAY, OCT. 27, 1903.

SHOW me your companions and I will delineate your character.

TOWARDS what ideal are you striving? If you have none, you are like a ship without a compass on a tempestuous sea.

DO YOU delight in trivial things? If so, your life will be worth but little more than a trifle.

Some men work half a day and then talk about it for a week. Other men saw wood all the time and these generally find no opportunity to talk about it. If you want a thing done, see a busy man, not an idler.

HORT. CLUB.

At the meeting held last Wednesday evening, Prof. Hedrick gave an interesting and instructive account of his trip to the meeting of the American Pomological Society held in Boston last summer. In visiting Delaware he found that market garden crops had replaced the peach industry. The parks of Brooklyn, Philadelphia and Boston were fine from a landscape point of view but Central Park of New York did not present such a good appearance. In the fruit exhibit of the American Pomological Society, Michigan fruit won the silver medal.

Mr. Gunson gave the reports of the markets throughout the country showing their condition.

It was decided that the membership of the Club warranted a meeting every Wednesday evening. A good program has been arranged for the next meeting, Oct. 28.

Y. M. C. A.

The attendance at prayer meeting last Thursday evening was larger than at the preceding meeting. There is an appreciable increase in attendance at the Thursday evening meetings, and if this can be kept up during this term we shall be obliged to use the chapel. This we long to do, so it is hoped that all association men and all others will make it

a point to be with us every Thursday evening from 6:20 to 7.

Mr. Alexander A. Fisk led the Thursday evening prayer meeting. Theme: The temporal blessings which follow Christianity.

The discussions were instructing and well worked out. It is earnestly hoped that everybody present will feel free to take part in these meetings.

Rev. George F. Plummer conducted chapel exercises Sunday morning. The services were well attended and the theme well presented.

The union meeting of the Y. W. and Y. M. C. A. filled the chapel. The theme: Matt. 25: 29, "For unto every one that hath shall be given, and he shall have abundance; but from him that hath not shall be taken away even that which he hath," was presented with earnestness and effect by Mr. G. Masselink who showed that this is only a natural law true alike in both the spiritual and physical realms.

He said: "It is only by exercising what we already possess that we can hope to gain anything more. It is this element in the lives of great men that is largely responsible for the degree of success they have achieved. It is the exact opposite of irresolution and stagnation in all phases of human experience. It is the key to all success and progress and the only road to a beautiful character which is so desirable to possess."

MEMORIAL RESOLUTIONS.

WHEREAS, the Almighty has seen fit to cut off in its prime, the life of Bernard Skinner, an alumnus of the College and a member of the Hesperian Society, be it

Resolved, that we collectively express, in this manner, our deep feeling of regret and loss in his untimely death; also be it

Resolved, that we extend to his family and to his friends our sympathy. Be it further

Resolved, that these resolutions be printed in the College paper and a copy of the same be sent to his family.

THE HESPERIAN SOCIETY.

ALUMNI.

With '01.

L. W. Taylor is in the employ of the C. and N. W. R. R. in the department of civil engineering.

W. H. Green was recently married to Miss Sullivan of Peoria, Ill. They live at Iola, Kansas, where Mr. Green is employed in a cement plant of which Hanson Hammond, with '00, is superintendent.

Delmar B. Finch was married to Miss Ora L. Bowen on Oct. 14, at Tecumseh, Mich. Mr. and Mrs. Finch will be at home in Tecumseh after Nov. 1st where Mr. Finch is employed in the car shops of the Cincinnati Northern.

D. L. MacDougall is now chief draftsman for the Chesapeake and Potomac Telephone Co. of Baltimore, Md. He resides at 1120 Madison Ave.

H. S. Putney is working with an engineering party of the Great Northern R. R. His headquarters are at Spokane, Wash.

'02.

G. S. Covell is surveying for the C. and N. W. R. R. His present

address is 420 Winona St., Winona, Minnesota.

A. H. Case is a member of the reorganized firm of The Smedley Construction Co., of Philadelphia.

E. D. Searing is instructor in the engineering department of the Colorado Agricultural College at Fort Collins, Colo.

O. H. Skinner is assisting chemist in the Alma beet sugar factory.

F. W. Owen, of London, Eng., has the following postscript to a recent letter: All '02 people will understand.

"Having crossed the Atlantic four times and probably traveled 25,000 miles, the chainless letter has successfully completed its maiden voyage. It was considerably battered and barnacled, but has been dry-docked and made ship-shape, and goes forth once again laden with a rare treasure contributed by 20 of our worthy ports."

E. J. Dail is bacteriologist of the scientific experimental department of Parke Davis & Co., of Detroit. He does original work, tests anti-toxins, vaccines and serums.

H. L. Brunger assists H. F. Palmer, '93, who is Veterinarian to Parke Davis & Co., and has charge of their Biological Stables.

W. S. Palmer is engaged in fruit raising at Kalkaska, Mich.

C. P. Reynolds is with the Chicago Daily Drovers Journal, editorial department. He reports on live stock as exhibited at the different fairs and also experiments conducted on farms and at colleges.

D. W. Smith is working in the building construction department of the Western Electric Co. of Chicago.

U. B. Horton is in the wholesale cheese business at Fruit Ridge, Mich.

B. A. Peterson is drafting for the American Can Co. of Maywood, Ill. He and Mr. Smith room together in Chicago.

Marguerite A. Nolan writes a very interesting letter from Weiser, Idaho, where she has charge of the domestic science department of the Idaho Industrial Institute. Her work has been very successful and interesting so far and she enjoys the west very much.

M. A. Crosby called on friends at M. A. C. last week on his return to Washington where he will spend the winter getting his reports in proper form. He has travelled through Nebraska, South Dakota, Wisconsin, Wyoming, Colorado and Oregon this summer and has visited nearly every state west of the Mississippi since he has been employed by the U. S. Government. His work has been along the line of grass and forage crops and the study of range problems. The west seems to agree with him and the work has proved both pleasant and profitable.

With '02.

R. L. Yates is now located at Dayton, Ohio.

'03.

Burr Wheeler is now a student at Columbia University, New York.

W. M. Brown is structural draftsman in the Whitehead and Kales Iron Works of Detroit. He can be found at 440 Larned St., E.

With '04.

Dorr Skeels, a senior at M. A. C., left last Saturday for Texas. He has secured an appointment in the U. S. department of agriculture, division of forest management.

LAMPKE BROS.

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C. D. WOODBURY

HOLLISTER BLOCK



ABOUT THE CAMPUS.

The total enrollment at the Secretary's office is 790.

Several new electric lights have been put in the botanical laboratory.

Mrs. G. A. Lambert of Niles is spending the week at the College the guest of her son.

Members of the Shakespeare Club and those interested in this work, will meet at Dr. Edwards' house, Wednesday evening, Oct. 28, at 7:30.

The seniors in Zoology are studying the branch echinodermata. The starfish, the characteristic animal of this branch, is being dissected and drawn.

F. W. Robison is cooperating with the U. S. Dept. of Agriculture in trying to improve present methods for the analysis of potash and phosphorus in fertilizers.

R. H. Pettit, entomologist of the experiment station, has spent the past week in Ann Arbor receiving treatment at the University hospital for arthritis of the knee.

F. M. Shotwell recently visited the College and left some samples of cement. He is in the employ of the Portland Cement Co., of Fenton, Mich., in their Detroit office.

796 are enrolled in the mathematical department, and they average five hours per week. Many take two classes and several take three. The total number of different students enrolled is 573.

The Pacific Starch Co. of Jackson, has sent samples of wheat starch

crystals, number 2 starch ground and gluten flour to Prof. Jeffrey for use in his class studying farm crops and their products.

Instructor Harza has been unable to meet his classes on account of a severe attack of neuralgia. Messrs. Babcock, Hartwell, Masselink and Miss Bertha Baker have taken charge of the work.

The favorite corn of N. Dakota is Minnesota King. The ear is about 7 inches long and has 8 rows. It is a rapid grower, maturing in about 14 weeks. Compared with yellow dent, it is decidedly inferior.

The horticultural department has sold about 300 barrels of winter apples. Small lots of about 150 varieties have been reserved for use in the class room and for exhibition purposes at the St. Louis fair.

W. R. Brown is acting as college inspector of the 8-inch drain which will carry away the water from the tunnels of the new power house. The drain will be about 600 feet long and is over 12 feet deep at the track.

The first military hop of the season occurred last Friday evening. A goodly number were present and all had a very pleasant time. Prof. and Mrs. Vedder and Prof. and Mrs. U. P. Hedrick chaperoned the party.

In a letter to Prof. Holdsworth, former Lieut. Simpson states that he is now captain and adjutant of the 6th U. S. Infantry stationed at Ft. Leavenworth, Kansas. Miss Bethel is now a sophomore in the high school.

B. O. Longyear is working on a new bulletin on the diseases of fruit. All of the orchard fruits will be considered, new illustrations given and causes and remedies brought up to date. The bulletin will avoid technical discussions as far as possible.

Mrs. C. D. Smith has been ill for eight weeks with malaria and inflammatory rheumatism. She is very weak at present and a disease of the femur has become manifest of late, which a counsel of physicians has pronounced osteoid sarcoma.

The party given by the Union Literary Society on Friday evening, Oct. 16, was a marked success in every particular. Messrs. Robison and Netzorg furnishing the music which delighted and pleased all. Prof. and Mrs. Babcock, Mrs. Landon and Miss Moxness were the patrons for the occasion.

Miss Hattie Young, a sister of Mrs. Chase Newman, was married at Buffalo, N. Y., Oct. 14, to Mr. W. B. Stocum, of Portland, Mich. Mr. and Mrs. Stocum spent Friday at M. A. C. while en route to their future home in Portland. Mr. Stocum had two brothers and a sister attending M. A. C. from '94 to '98.

The farm department has recently shipped Duroc pigs to Iowa, Olivet, Webberville and Williamston; Hampshire sheep to Cadillac, and parties near Lansing; Shropshire sheep to Fremont, St. Louis and Wacousta; Spanish merino to Portland; Holstein Friesian cattle to Grand Rapids and California,

Mr. Barlow is conducting a series of experiments with cabbage and allied plants. He has inoculated several healthy specimens with Pseudomonas campestris and symptoms of the disease are appearing. A few cabbage and cauliflower plants in a diseased condition.

At the meeting of the American Pomological society in Boston the following M. A. C. graduates were on the program in addition to those mentioned in a recent issue of THE RECORD: L. H. Bailey '82, H. W. Collingwood '83, A. G. Gulley '68, and William Munson '88. Prof. L. R. Taft was reelected treasurer and Hon. C. J. Monroe was chosen vice president for Michigan.

Three judges will be appointed for each division and the three contestants receiving the highest marks will be eligible for the next series. This will consist of twelve speakers from which six will be selected and finally three will be chosen to debate Ypsilanti. This method of survival of the fittest should develop a species capable of thriving in an Ypsilanti environment.

24 steers were recently purchased for experiments in feeding. The cost was \$3.90 per hundred and the average weight was 933 pounds. The steers are shorthorn grades two years old. They will be divided into four lots. One lot will be fed shock corn, one corn stover, corn and cob meal, the third corn ensilage and the fourth beet pulp. The object will be to test the relative feeding value of the above named foodstuffs.

The M. A. C. chorus class meets every Monday evening from 6:45 to 7:45. No singers should miss the opportunity of studying that master piece in music, "The Creation," written by Haydn. It will help you to read music, make you independent and give you confidence in your ability. New members will be received until Nov. 2, after which date none can be admitted unless they have previously sung in The Creation. There are some excellent voices in each part capable of carrying the different parts through successfully.

Bernard Skinner of Cooper, fell on a slippery gangway at the Michigan Central stockyards at Kalamazoo, Oct. 21, and struck the back of his head on a projecting cleat, crushing his skull. Skinner died instantly. The young man was helping his father unload some cattle, purchased by the elder Skinner in Chicago, and had just sent the last cow down the gangway. He was 22 years old, unmarried, and belonged to a prominent family in Kalamazoo county. — *Detroit Free Press.*

Rev. James F. Taylor died at his home, Lake Ridge farm, near Douglas, Mich., after a short illness, at the age of 78 years. He was a graduate of Amherst and took his theological courses at Princeton and Yale. On account of ill health he decided to leave the ministry and bought a fruit farm southwest of Douglas in 1892. His orchards and nurseries are well known and he worked a great deal in the State Horticultural society. His son, W. A. Taylor, '88, now of Washington, D. C., is a prominent M. A. C. alumnus.

The following surplus stock is for sale by the farm department:

- Holsteins—3 cows and 3 heifers.
- Jerseys—2 cows, 2 heifers and 1 bull calf.
- Brown Swiss—2 cows.
- Shropshires—10 ewes, 3 ram lambs and 3 yearlings.
- Hampshires—1 ram lamb.
- Oxfords—13 yearling rams and 1 ram lamb.
- Dorsets—1 yearling ram.
- Berkshire, Poland China, Duroc-Jersey and Chester white breeds, 28 in all.

Recently Professor Dandeno has arranged, from cards collected for some time back by Dr. Beal, a card catalog of the botanical literature of the world published since 1893. About 6500 cards are now in the trays, and the list is being augmented from time to time according as works of research are published and synopses made. The aim of the catalog is to collect for convenient reference an index of all published matter of scientific interest to botanists. The catalog is now available to those who wish to use it and may be found in room 6 botanical building.

One gram of ice from the College ice house showed over 15,000 germs. A culture was grown at body temperature, thus destroying a large number of the original germs, and injected into a guinea pig with the result that the pig's death occurred inside of ten hours. This sudden death was undoubtedly due to poison generated in the culture and not to the action of germs directly on the pig. A large number of species of germs were found among them being sewage germs. As a rule

there are enough parasitic germs to destroy the effect of the dangerous ones. In fact this is our only hope for safety. At the same time it will readily occur to anyone that to drink ice water or ice tea is liable to have serious results. It will be safer to "boil the ice."

The Phi Delta Literary Society had the pleasure to entertain the following members of the faculty on last Saturday evening: Pres. and Mrs. Snyder, Dr. and Mrs. Edwards, Prof. and Mrs. Vedder, Mrs. Landon, Miss Gilchrist, Miss Avery, Mr. Gunson, Mr. Sawtelle and their friends, also a few members of various literary societies about the campus, Mr. Martin, Pres. Union Literary Society. The program consisted of reading, current events, a paper by Mr. Geller on Goethe's life and influence. As Mr. Geller had the pleasure to receive a visit from his friend, Mr. Harry S. Raccoli of Chicago, who visited our society, the program was enriched by a few solos of Goethe's Lyrics, composed by Schubert and Beethoven.

Mr. Harry S. Raccoli, who is visiting H. W. Geller, is a graduate of the Imperial Royal Conservatory of Music of Berlin, Germany. Mr. Raccoli distinguished himself by receiving a scholarship of six years from the Private Imperial Treasury of Germany. He has appeared before the German people in several concerts that he gave in Berlin. The German press and critics speak very highly of Mr. Raccoli as a good classical concert singer of a baritone voice. Mr. Raccoli came to this country a year and a half ago and established himself in Chicago. He opened a studio in Steinway Hall. Mr. Raccoli will give a recital in Chicago on Thursday, October 29, and several M. A. C. people in Chicago will attend. His religious solos in chapel on Sunday morning were well received.

The preliminary debates on the question of suffrage in the south will begin on December 5. The following schedule has been arranged by Dr. Edwards:

FIRST DIVISION.

Affirmative: S. E. Johnson, W. F. Millar, G. C. Morbeck. Negative: Miss B. K. Paddock, Miss M. Barrows, Miss Z. Benton.

SECOND DIVISION.

Affirmative: A. J. Anderson, G. E. Martin, R. C. Potts. Negative: V. R. Gardner, P. H. Wessells, H. H. Hogue.

THIRD DIVISION.

Affirmative: H. S. Severance, O. B. Burrell, H. C. Owen. Negative: C. D. Sterling, L. D. Bushnell, A. A. Fisk.

FOURTH DIVISION.

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