

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 12.

LANSING, MICHIGAN, TUESDAY, FEBRUARY 26, 1907.

No. 23

THE JUNIOR HOP.

Yes, it was a success. How could it be otherwise?

The reception was a success, including the prominently labeled trunk belonging to one of the young men and reposing comfortably within the corridors of the Women's Building. The banquet was a success both in material ways and in the joy and color of the comradeship, which really is the soul of a feast. The music was a success—a lilting, singing, humming locomotive success. And the toasts! From the coy and charming welcome of Miss Pratt to the roystering fun and heart-touching sermon of O'Gara they were, one and all, on the highest plane of after-dinner oratory.

The walk in the moonlight to the armory was a success, from its beginning at the heap of furniture ready to be moved into the Women's Building for the accommodation of one of the gentlemen of the class, to its close at the bower of beauty into which the grim old abode of the god of war had been turned.

For the armory was a joy forever. It never was so beautiful before. The evergreens that interlaced the girders made a ceiling of fairy-like charm. The booths in the corners made cozy corners for a minute's rest between dances which were especially appreciated by the fellows who had not seen their "home girls" for weeks or months. The sherbets and toothsome pastry served by the mahogany butler were just the touch needed to make the rest perfect.

The music was a success. A better orchestra never pealed forth airy strains for the movement of fairy feet—some of them! The unconventional nature of many of the selections and the frequent vocal accompaniment added a tang that will continue to echo for many a month in the memory.

The hour of reaching the end was a success; for we didn't go home till morning. And the efforts of our friends, in "stacking rooms," was not a whit less successful than was the hop looked at as a whole.

Yes, it was all a success! How could it be otherwise?

HORT. CLUB.

Mr. F. R. Beatty of Three Rivers, editor of *The Strawberry*, and an expert strawberry grower, gave a very interesting and instructive talk at the Horticultural Club last Wednesday evening. He discussed the methods of improvement of strawberry plants by selection as employed on the Kellogg strawberry farm at Three Rivers, and also cultural methods, as preparation of land, planting of strawberries, and care during season. Mr. Beatty was given a rising vote of thanks in appreciation of his talk. Northern Spy apples were served.

Miss Bliss, a former student, is visiting Miss Dalzell for a few days. Miss Bliss attended the J. Hop.

BASKET BALL.

OLIVET AND M. A. C.

The Basket Ball Boys defeated the Olivet team at Olivet Friday night by a score of 38 to 24 in an exceptionally clean, but hard fought game. This is the second victory over the Olivet team this year, the line up was as follows:

| M. A. C. | | OLIVET. |
|----------|---------|-----------|
| McKenna | forward | Thomas |
| Dickson | | Hurlburt |
| Vondett | center | Bishop |
| Krehl | guards | Natchesen |
| Hanish | | Hedden |

The track meet which was to be held was declared off.

DETROIT AND M. A. C.

February 19, Detroit Y. M. C. A. basketball quintet administered the first defeat the M. A. C. team has suffered on its home floor, by a score of 24 to 17. The game was fast and spirited, and the crowd was the largest that ever turned out to witness a game here. While plenty of spirit was shown by both teams at all times the game was a clean one.

The first half the Detroiters had things pretty well their own way, the score at the close of the first period being 14 to 5, the Farmers failing to score from the field, while Clarke, Boosey and Stockham each got one for Detroit, and Clarke scored five fouls in eight chances. Boosey was awarded a point for M. A. C. Capt. Krehl scored four in six chances, while McKenna had one point given him.

Clark opened the game by scoring twice from the foul line, and Detroit had a lead of six before the Farmers broke the ice. The low iron rafters of the gymnasium seemed to bother the visitors considerably, many of their shots being spoiled by these obstructions. In the second half, when B. Johnson went in at center and Hanna at defense for Detroit, it seemed to bother them even more.

At this stage of the game the Farmers woke up considerably, and for the first five or six minutes had the Detroiters on the run. But they settled down and maintained their slight lead all through the game, although the forward work of Krehl and Vondett kept them busy.

B. Johnson lost many chances to score through fumbling, he dropping more than half of the passes made to him. Stockham played a hard and consistent game. In the second half he tossed six in eleven free chances.

Final score—Detroit 24, M. A. C. 17. First half—Detroit 14, M. A. C. 5. Baskets from field—Stockman 2, Clark 1, Boosey 2, B. Johnson 1, Krehl 2, Vondett 2. Baskets from fouls—Clark, 5 in 8; Stockham, 6 in 11; Krehl, 8 in 13. Fouls committed—Stockham 2, Clark 1, Boosey 1, Millar 1, C. Johnson 3, Hanna 3, B. Johnson 1, Krehl 6, McKenna 4, Vondett 4, Westernman 1, Hanish 4. Extra points—Boosey 1, McKenna 1. Time of halves—20 minutes.

Referee—Al G. Huebner, Detroit. Umpire—Ed. Nies, Lansing.

The college was saddened by the unexpected death of Mr. F. W. Marks, a freshman mechanic of St. Louis, which occurred Saturday morning. His death was due to pneumonia with which he was stricken last Sunday. Mr. Marks was not seriously ill until Thursday when he was taken so much worse that his parents were sent for, although even then there were strong hopes of his recovery. But the disease had taken such a hold on him that he was unable to withstand it and his young life passed away at 11 o'clock Saturday morning.

The body accompanied by the grief stricken parents and two boyhood friends, Mr. F. Hart and E. Baldwin, was taken to St. Louis Saturday afternoon.

This death is especially sad because of the suddenness and of the youth and bright prospects of the young man. Though Mr. Marks had been in school but a short time, yet by his modest manner, studious nature and good moral character he had won many friends among his classmates and teachers. Mr. Marks was a member of one of the Y. M. C. A. Bible classes, and took an interest in those things which tend for higher and better living.

His classmate contributed a beautiful woven carnation blanket as a token of sympathy and regard; the members of the faculty also gave a beautiful floral decoration.

This death is especially grievous to the parents as the young man was an only child, and the whole College unites in extending to the grief stricken parents their heartfelt Christian sympathy.

SENIOR THESES.

Taylor E. H., Charlton I. D., Koekler I. G.—Commercial Test of Boiler at M. A. C. Power House.

Wright L. H., Smith L. E.—Generator Test at M. A. C. Power House.

Hayes G. B., VanHaltem A. S.—Gasoline Engine at Olds Gas Power Co.

Towne E. A., Peck C. B.—Efficiency Test of Kerr Steam Turbine.

Wilson A. W., Campbell G. B.—Pump Duty Test at M. A. C. Laboratory.

Seiler R., Burley G. A.—Commercial Test of Steam Engine at M. A. C. Power House.

Stewart B. C., Goldsmith D. R.—Suction Gas Producer Plant at Old Gas Power Co.

Pratt A. C., Post O. C.—A test of Variable Speed Motors.

Minard R. F., Dwight A. C.—A Comparative Test of Rail Bonds.

Messers Post and Pratt—Comparative tests of various makes of variable speed motors for machine driving.

Minard and Dwight—A comparative test of rail bonds.

Wright and L. C. Smith—Testing of the generators in the power plant.

ALUMNI.

AN EXTRAORDINARY INCIDENT.

Up to the time of W. A. Fox's resignation as county superintendent, Michigan Agricultural College, located at Lansing, Mich., had three graduates located in the courthouse as county officials in the persons of W. A. Fox, '91, as county superintendent; J. W. Earle, '89, county auditor, and G. L. Foote, with '89, clerk of Noble circuit court. This is something extraordinary, but that is not all. County Treasurer Latta, '77, and Dr. F. W. Black, with '96, coroner of this county, also have been students of that institution of learning. Fred B. Moore, with '91, was retired as county surveyor January 1, is also in the list, being a graduate of the civil engineering course at M. A. C.

We doubt whether there is another institution of learning that can show as many students occupying official positions in one county at the same time as Michigan Agricultural college especially when the officials are residents of another commonwealth. This is a proud distinction. Another graduate, F. J. Niswander, '89, is deputy state auditor of Wyoming, and has been occupying the position for several years. Another graduate, J. B. Cotton, '86, of Duluth, Minn., has served in the state legislature, and won distinction as an attorney. And best of all each of the persons mentioned above, were Noble county boys. There is no use trying, you can't keep a Noble county boy down, as he is bound to be at the head.—*Albion (Ind.) Democrat*.

'06.

W. Neilson and A. Markham have recently taken the civil service examination for surveyor in the Philippine service. Several of the class of '06 seem to be anxious to have Uncle Sam as an employer.

W. E. Morgan has removed from Butte to Anaconda, where he has charge of the sub-station which supplies power for the running of the Washoe Smelter, the largest smelter in the world. He is very pleasantly situated and enjoys his work very much.

G. P. Boomsliker writes from Phoenixville, Pa., where he is still working with the Phoenixville Bridge Co. acquiring their valuable experience besides receiving a liberal financial remuneration. He is working on some of the largest bridges that have ever been built. He mentions the Quebec Bridge, which took seven months to complete the drawings. Mr. Boomsliker expects to be back to the reunion.

L. M. Spencer has left his position at Ambridge, Pa., and is now with the Bridge Dept. of the N. Y. Central R. R. and is located at N. Y. City. Spencer has recently passed the very rigid civil service examination and will soon receive position in the patent office at Washington.

THE M. A. C. RECORD.

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TUESDAY, FEB. 26, 1907.

WEEKLY CALENDAR.

Tuesday, Feb. 26. — Farmers' Club, Agricultural Building. Forestry Club, Dairy Building. — Nature Study Club, Prof. Curtis on the Speaking Arc Lamp, Physics Building.

Wednesday. — Horticultural Club, Horticultural Building. Dairy Club, Dairy Building.

Thursday. — Y. M. C. A. meeting, 6:20 p. m., Mr. Chas. Hermann, of Lansing, speaks. 7 p. m. — Debating Club; Discussion of the Forestry Question.

Saturday. — Political Science club in Reading Room at 7:30. Prof. Vedder speaks on "Tendencies in Engineering Education." P. M. — Basket Ball: Freshmen vs. Sophomores for class championship; M. A. C. vs. Ypsilanti.

Sunday. — Chapel exercises at 9:00 a. m. Brig. Gen. Land of the Salvation Army, speaker; association meeting in the evening at 7:00.

Monday. — Chorus practice 6:45.

Y. M. C. A.

A NOTABLE CONVENTION.

The state Y. M. C. A. convention held at Jackson last Wednesday was a great one indeed. Some 200 or more business and professional men from the various cities of the state besides about 75 college and university students, and well repaid were they for their visit, as they had the privilege of hearing two of the leading orators of the country. The Rev. Dr. Cadmans, of Brooklyn, who gave two addresses at the convention, is considered by many to be the best pulpit orator in the U. S. and all who heard him were inspired by his noble eloquence.

Mr. J. A. MacDonald the managing editor of the *Toronto Globe*, Canada's greatest daily newspaper, who also spoke is fully the equal of Dr. Cadmans; and in listening to these two men, the delegates at the convention had the privilege of a life time, and all who heard them pronounced to be the best speakers they had ever heard. Mr. Clayton S. Cooper, Bible Study Secy. of the Int. Com. and also Mr. John F. Moore, Secretary of the R. R. Dept. were present and gave inspiring and earnest addresses.

Aside from these speakers reports were also given of the various building campaigns that are being carried on in the various cities of the State, "in listening to the various business men of the different cities telling of their experience in raising money for Y. M. C. A. buildings." One could see how the hard headed men of business throughout the state were becoming interested in the work of the Y. M. C. A.

The banquet of the evening was the crowning event of the day, and those three hundred men gathered there will not soon forget the inspiration derived, and it is certain that the students of M. A. C. who had the privilege of attending this convention will be the better and were interested in the Christian work of the College.

A Bible study conference for college students was held on the day following where inspiration and instruction was given for furthering the effectiveness and intensity of Bible study.

Messrs. Frazier, Waterman, Borden, Wilcox, Wells, Kurtz, Krehl, and Rulling were the delegates from the M. A. C. associations. Mr. Webber and Mr. McWethy also attended.

Mr. C. B. Collingwood spoke at the Union meeting Sunday night. Mr. Collingwood is a very interesting speaker and his talk was appreciated by those who heard him. Mr. Gunson was to have spoken but was unable to do so on account of a slight attack of the grip.

Mr. Charles F. Herrmann is to address the Thursday evening this week; he is an old graduate and will have something of practical value for the students.

At the close of his Bible class Sunday afternoon, Dr. Blaisdell invited the members to his home where they spent a few enjoyable hours together.

NOTICE.

On and after March 4th, 1907, the mails will be carried by the Street Car Company. There will be five mails each way, every day except Sunday, as follows: 7 a. m. 8:20 a. m. 12 m. 3 p. m. and 5:20 p. m. Mails arriving and departing at the same hour. Under this arrangement mail for Lansing placed in the office before seven o'clock in the morning will be delivered in Lansing that morning while letters mailed before 12 m. will be delivered in Lansing the same afternoon.

The Government has placed on sale books containing 24 one-cent stamps for twenty-five cents.

C. B. COLLINGWOOD, P. M.

FACULTY NIGHT.

The Union Literary Society gave their annual faculty program Saturday evening, Feb. 23. A large number of the faculty and force of instructors were present, and it would seem from the way they put aside their class room dignity and entered into the spirit of the evening that they enjoyed it. The society always enjoy having their faculty friends call on them, but would rather they would not wait for invitations. It is hoped that in the future they will feel free to visit the society at any time.

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DEBATING CLUB.

The Debating Club met last Thursday evening and listened to a discussion on the question "Resolved that a Parcel's Post should be adopted in the United States." The affirmative was upheld by Messrs. Lindsley and Copson, and the negative by Messrs. Cade and Mason. The decision of the judges was in favor of the affirmative. The increasing interest taken in the Debating Club by the young ladies is greatly appreciated and it is hoped that it will continue and that they will take an active interest in some of the discussions.

The semi-finals for choosing the M. A. C. Debating team will be held on Friday evening March 8th, instead of March 1st, as originally planned and it is hoped that a goodly crowd will turn out to encourage the debaters.

Next Thursday the forestry question will be discussed at the Debating Club and should prove of interest to all.

RESOLUTIONS.

Whereas, the hand of death has removed from our midst our friend and classmate, Frank W. Marks; be it

Resolved, that we, the class of nineteen hundred and ten, hereby express our sorrow in our loss, and our sympathy with his bereaved parents, and be it further

Resolved, that a copy of these resolutions shall be placed on the class records, and another published in the M. A. C. RECORD.

ATHLETIC ELECTIONS.

The annual election of the Athletic Board of Control, the team managers and M. I. A. A. director will take place Saturday, March 2, in the chapel. The contest this year shows considerable spirit, and every person eligible should turn out to the polls.

By way of explanation the plan of election is as follows: Any person connected at all with the College as faculty or student is eligible to vote for the team managers and M. I. A. A. director. The four regular college classes are each entitled to two men on the board of control and in voting each class to vote only for two of the men appearing in their respective classes. The sub-freshmen have no vote for board members.

Following are the nominations for:

Football Manager—Hopson, Merwin, W. D. Frazer.

Baseball Manager—Doty, Dodge, Kratz.

Basketball Manager—McKenna, Vondette, Krehl.

Track Manager—Beckwith, Allen, Clise.

Tennis Manager—Gould, Taft, Westerman.

M. I. A. A. Director—Gongwer, Small, O'Gara, Dunlap.

Senior Class—Weeks, Gasser.

Junior Class—Boyle, Small, Ashley, Gongwer, O'Gara, Shassberger.

Sophomore—Phippeny, Dunlap, Oviatt, Allen, Chas. Edwards, Harrison.

Freshmen—Kurtz, Hanson, Utley, Waterman, Vondette.

The polls will be open from 10 to 2, let every one turn out and vote.

Subscribe for THE RECORD.

LONGFELLOW CENTENARY.

The centenary of the birth of America's home poet, Henry Wadsworth Longfellow, is being celebrated at the chapel hour on Tuesday, Wednesday, and Thursday mornings. Selections from the poems of Longfellow were sung by Prof. Patton on Tuesday morning, and similar selections will be sung on Wednesday and Thursday mornings by Mrs. Ray Moore, of Lansing, Miss Carrie Porter and by a male quartet.

Brief addresses on the life and work of the poet are being given each morning by Dr. Blaisdell, who has charge of the services.

RECITAL.

By students of music in the parlors of the Women's Building, Saturday, March 2, 1907, at 7:30 p. m. All students and friends are cordially invited to attend.

PROGRAM.

Valse Mystique, Wachs, Miss Flora Bates.

Norwegian Bridal Procession, Grieg, Miss Mildred Perrin.

Polish Dance, Thoma, Miss Leta Hyde.

Merry Mood, Lichner, Miss Edith Harding.

Mandolin Serenade, Bohm, Miss Nina Brandstetter.

Valse Petite, Neidlinger, Miss Geneva Salisbury.

Second Mazurka, Godard, Miss Glenma Pancoast.

Il Desir, Cramer, Miss Norma Vedder.

Second Waltz, Godard, Miss Florence Hall.

Sonata Op. 10 No. 2 Andante, Beethoven, Miss Irma Himelberger.

INTERMISSION.

I love Thee—Transcription, Grieg Miss Jean McCoy.

Hark! Hark the Lark, Schubert-Liszt, Miss Edith Langenbacher.

Gondolieri, Nevin, Miss Grace Warner.

Melody in F, Rubenstein, Miss Hazel Kellogg.

By a Meadow Brook in Autumn, Mac Dowell, Miss Irma Himelberger.

Impromptu, Op. 90, No. 4, Schubert, Miss Helen Andrews.

Fifth Nocturne, Leybach, Mr. Neal Perry.

Etude Melodique, Raff, Miss Louise Allen.

The Two Skylarks, Leschetizky, Miss Florence Rounds.

PERIODICALS

Purchased by the College to be found in the reading room.

Engineering.

Engineering and Mining Journal.

Engineering Magazine.

Engineering News.

*Engler und Prantl. Naturlichen Pflanzenfamilien.

Entomological News.

Entomological Society London. Transactions.

*Entomologist.

*Entomologists' Monthly Magazine.

Ergebnisse der Physiologie.

Everybody's Magazine.

Farmers' Review.

Fern Bulletin.

Florists' Exchange.

Forestry and Irrigation.

Forestry Quarterly.

Forstwissenschaftliches Centralblatt.

Fortnightly Review.

(Continued on page four)

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ABOUT THE CAMPUS.

Mr. Flower Johnson left Sunday for his home (?) to fill an important engagement.

Mr. Carl Guile of Albion College, spent Saturday and Sunday with Mr. R. S. Wheeler.

No classes on February 22 and quite a number of students took this opportunity to visit their homes.

Miss Margaret Kohn, of Belding, Mich., visited her brother Peter at the college Monday and Tuesday.

Mr. Frank Kemp, of Belding, Mich., a former short course man, visited at the college Monday and Tuesday.

An excellent article by A. G. Gulley, '68, on "The Bubble," the first college paper—reached us just a little late for this issue.

On Friday both the first and second Basket Ball Teams go to Mt. Pleasant where they will engage in conflict with the Normalites.

A. F. Falconer is still at Ambridge enjoying his work. E. A. Wilcox, of '05, and W. V. Baker, with '06, are also at Ambridge.

Mr. MacGugan left the college Thursday for a short visit with his parents at Custer before going to Arizona, where he is to take up his abode.

Miss Bertha Hobbs, sp. '06, and Mr. Henry Sparling, of Kingsley, Mich., were married February 10, at Traverse City, which city will be their future home.

Mr. O. K. White, '07, who has been at his home near Hart, for several days recuperating after his re-

cent illness, returned yesterday much improved.

Miss Ada BeanBlossom has matriculated for study in music. Miss BeanBlossom is an experienced stenographer and would be glad of work in this line.

Mr. B. F. Kindig, with '09, was a College visitor recently. Mr. K. is teaching near his home at Elkhart, Ind. He expects to return to M. A. C. in a year or two.

LOST.—Part of a gold wire lace fob on the campus Friday night somewhere between Abbott Hall, the Post office and Williams Hall. Finder leave at president's office and receive reward.

Some eight professors and their wives partook of a very sumptuous repast at the Women's Building Tuesday evening. The lady teachers of the Women's Building are indeed gracious entertainers.

The Freshmen defeated Mason High School in a one sided game of base ball at the armory Saturday. The Freshmen were also victorious in the Track meet with Lansing High School by the score of 57 3/4 to 28 3/4.

Pres. Snyder was called to Washington, to attend a meeting of the Executive Committee of A. A. C. and E. S. which was held on Monday. The President then goes to Ionia, to attend a meeting of the State Board.

The following from out-of-town, attended the Junior Hop as guests: Miss Rose Dunham, Mr. M. O.

Johnson, Mrs. Hudson, Miss Ethel Chapin, Mr. C. B. Kratz, Mr. L. C. Reynolds, Mr. Ray Potts, Miss Maud Jones.

Pres. Snyder was called to Washington to attend a meeting of the Executive Committee of the A. A. C. and E. S., which was held on Monday. The president will be in Ionia on Wednesday to attend a meeting of the State Board.

The ladies of the women's department gave a musical Saturday afternoon at the Women's Building. The musical talent of the college were represented on the program all acquitting themselves in a very enjoyable and acceptable manner.

Miss Keep, State Sec'y of the Y. W. C. A., and a friend Miss Stewart paid a short but pleasant visit to the young ladies at the Women's Building. Miss Keep gave a very enjoyable informal talk before the young ladies in the evening.

At the meeting of citizens held in the chapel Saturday evening, there were 106 votes cast, 78 of which were in favor of incorporation. A bill for incorporation will therefore be submitted to the legislature at an early date. A committee of five was appointed for this purpose.

The short course men, before their return home were given a very pleasant reception at the Women's Building where they were entertained and feasted by Prof. Smith and Dean Jones. They also paid a visit to the capitol where they were given a talk by Speaker Whelan and Lieut. Gov. Kelley.

Some of the senior engineers went star gazing last Tuesday evening. They saw the inexpressibly lovely scenery of our moon, two of the moons of Jupiter, and the double star Polaris. During the evening an entire new constellation was added to our list of known stars. It was named after its discoverer the Penny Arcades.

Brig. Gen. Land, of the Salvation Army, will conduct chapel exercises Sunday morning. Mr. Land is successor to Miss Blanche Cox who has always been a welcome visitor and speaker at M. A. C. He is a graduate of Northwestern university has spent some time in London and has been in evangelistic work for seventeen years.

The annual state oratorical contest will be held at Hillsdale, next Friday evening, college church, at 7:30. W. E. Piper, M. A. C.'s representative, will give as his oration "As Thyself." Thro his debates and orations Mr. Piper has become perfectly at home on the platform, has a most excellent oration, and we predict for him a high place among the orators.

Moscow, Idaho.

M. A. C. RECORD.

Dear Sir.—It is with pleasure I renew my subscription. I hope to meet old friends on my return in June but can truly say the "West" is a grand place to live in, and M. A. C. people are often greeted here.

Sincerely,
BERENICE S. MAYNARD.

(Continued from page two.)

Fortschritte der Veterinar Hygiene.
Forum.
Garden. (Exchange.)
Gardening. (Exchange.)
Gardener's Chronicle.
Good Housekeeping.
Harper's Bazaar.
Harper's Monthly.
Harper's Weekly.
Holstein-Friesian Register. (Exchange.)
*Hoppe Seyler's Zeitschrift fur Physiologische Chemie.
House and Garden. (Exchange.)
*Hygienische Rundschau.
Independent.
Indian Forester.
Irrigation Age.
Jahrbuch der Deutschen Landwirtschaftliche Gesellschaft.
Jahresbericht über die Fortschritte auf dem Gesamtgebiete der Agrikultur Chemie.
Jahresbericht Garungs Organismen.
Jahresbericht der Landwirtschaftliche Schule Rutt.
Jahresbericht über Pathogenen Mikroorganismen.
Jenner Institute of Preventive Medicine. Transactions.
Jersey Bulletin. (Exchange.)
John Hopkins University Studies.
Journal of Agricultural Science.
Journal of American Chemical Society.
Journal of American Medical Association.
Journal of Anatomy and Physiology.
Journal of Association of Engineering Societies.
Journal of Biological Chemistry.
Journal de Botanique.
Journal of Botany, British and Foreign.
Journal of the Chemical Society, London.
Journal of College of Science, Imperial University, Tokio.
Journal of Comparative Pathology Therapeutics.
Journal of Experimental Medicine.
Journal of Experimental Zoology.
Journal of the Franklin Institute.
Journal of Horticulture.
*Journal of Hygiene.
Journal of Infectious Diseases.
Journal de Medecine Veterinaire et de Zootechnie.
Journal of Medical Research.
Journal of the New York Botanical Garden.
Journal of the New York Entomological Society.
*Journal of Pathology and Bacteriology.
Journal of Pedagogy.
Journal de Physiologie et de Pathologie generale.
Journal of Physiology.
Journal de Physique Theorique et Applique.
*Journal of Royal Microscopical Society.
*Journal of the Society of Chemical Industry.
Journal of Tropical Medicine.
Ladies' Home Journal.
Lancet.
*Landwirtschaftliche Jahrbucher.
*Landwirtschaftliche Jahrbucher, Ergänzungsband.
*Landwirtschaftlichen Versuchs-Stationen.
Library Journal.
Literary Digest.
Living Age.
London Livestock Journal.
McClure's Magazine.
MacMillan's Magazine.
*Maly's Jahres-bericht über die Marine Engineering.
Michigan Farmer. (Exchange.)
*Milch Zeitung.
Mind.
Muncher Medizinische Wochenschrift.
Nation.
National Nurseryman.
Nature.

National Stockman and Farmer. (Exchange.)
Naturwissenschaftliche Zeitschrift fur Land-und-Forstwirtschaft.
New York Times Saturday Review.
Nineteenth Century.
North American Review.
Ohio Farmer. (Exchange.)
Osterreichische Forst und-Jagd Zeitung.
Outlook.
Park and Cemetery. (Exchange.)
Physical Review.
Philippine Journal of Science.
Philosophical Magazine and Journal of Science.
Plant World.
Political Science Quarterly.
Popular Science Monthly.
Prairie Farmer. (Exchange.)
Proceedings American Philosophical Society, Philadelphia.
Proceedings Entomological Society of Washington.
Proceedings Philadelphia Academy of Natural Sciences.
Psyche.
Public Health.
Putnam's Magazine.
Quarterly Journal of Economics.
Quarterly Journal of the Royal Meteorological Society.
Quarterly Review.
Reader's Guide to Periodical Literature.
Recueil de Medecine Veterinaire.
Review of Reviews.
*Revue Generale de Botanique.
*Revue Generale du Lait.
*Revue Horticole.
Rhodora.
Rockefeller Institute for Medical Research. Studies.
Rural New Yorker. (Exchange.)
Schweizerische Zeitschrift fur Forstwesen.
Science.
Science Abstracts, Section "A" Physics.
Science Abstracts, Section "B" Electrical Engineering.
Scientific American.
Scientific American Supplement.
*Scientific Roll.
Scribner's Magazine.
Southern Cultivator. (Exchange.)
Stettiner Entomologische Zeitung.
Street Railway Journal.
Symon's Meteorological Magazine.
Technology Quarterly.
Torreya.
Transactions of the American Entomological Society.
University of Pennsylvania. Medical Bulletin.
University of Toronto. Studies. Physiological Series.
Vick's Magazine. (Exchange.)
Virchow's Archiv fur Pathologische Anatomie und Physiologie.
Westminster Review.
Wiener Medizinische Wochenschrift.
World's Work.
Youth's Companion.
Zeitschrift fur Analytische Chemie.
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