

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 9.

LANSING, MICHIGAN, TUESDAY, APRIL 26, 1904.

No. 31



The above cut presents to our readers the M. A. C. debating team who defeated Ypsilanti last Friday. In the center is A. J. Anderson, who secured first place in the preliminary contest. He is a member of the Union Literary Society and of the Junior class, Agricultural course. On the left is S. E. Johnson, a sen-

ior Mechanical and a member of the Columbian Society. On the right is V. R. Gardner, a Junior Agricultural and also a member of the Columbian Society. The three form a team of which M. A. C. feels justly proud and which would do credit to any Michigan College.

NORMAL - M. A. C. DEBATE.

M. A. C. represented by Messrs. Anderson, Johnson and Gardner, upheld the affirmative of the question, "Resolved, That the limitations placed on the suffrage in the state of Mississippi by the constitution promulgated in 1890, and in effect January 1, 1892, are legally and morally justifiable." The Normal debaters were Miss Mabel G. Miller, Mr. Roy Herald, and Mr. Robert Reinhold. The principal limitations referred to were payment of taxes, including a two-dollar poll tax, reading or interpreting any section of the state constitution, a two-year residence in the state and one year in the electoral district.

The affirmative side described the condition in the south as a result of ignorant voting, showed the necessity for a change, outlined the proposed remedy, discussed the remedy itself in detail and finally reviewed the results accomplished in the south under the new standard.

The negative side, armed with a lawyer's reference library, proceeded to show the unconstitutionality of the Mississippi Constitution, claimed that the law was not justly applied and that it gave too much power to a few persons. Moreover, the south had promised the Negro representation and was now depriving him of

that right. The moral side, naturally the stronger side of the question, was practically neglected. In the face of a pronunciamento by the supreme court favorable to the constitutionality of the restrictions, it seemed strange why the Normal debaters should make the legal phase their main point.

The affirmative in rebuttal showed that ignorant whites were excluded as well as ignorant blacks. The legal side was touched up and the understanding clause defended. A resume of the arguments of the side closed the debate.

The Normal debaters had done a great deal of work but showed lack of form and absence of team work. Their rebuttal was quite animated but they were unable to successfully handle the situation. The M. A. C. team was more mature, better trained, had full command of the situation, took tenable ground and not once faltered or halted throughout the contest. They worked as a unit and sacrificed individual glory to effective co-operation. They were superior to the normal team in every respect.

The judges were Hon. J. B. Moore, Chief Justice of the State Supreme Court, Rev. W. H. Osborne of Battle Creek and Prof. C. H. Gurney of Hillsdale College. The decision was unanimous for the

affirmative. Judge Carpenter of the Supreme Court presided. Pres. Jones, Prof. Lathers, and 225 enthusiastic pedagogs accompanied the team. The teachers were quite demonstrative and supported their debaters with yells and songs. The best of feeling prevailed and all expressed themselves as well satisfied with the treatment received. Three strangers attempted to secure admission through the wrong door and caused a slight disturbance while Miss Miller was speaking. But since no M. A. C. students were in the group and at least one was a prominent Normalite, no charge can be made that there was an attempt to create confusion. The best of order prevailed throughout.

After the debate a reception was given to the visitors at the Woman's Building. About 400 were present. Miss Lyford showed her power of organization and management to be well nigh perfect.

Dr. Edwards has worked early and late to bring this contest to a successful close. The members of the team have been very faithful and earnest during the long series of preliminaries and are to be congratulated upon this well-earned victory. A debate of this kind is of inestimable value not only to the participants but also to the college at large. More real good is derived from it than from any term study in the entire course. The work should have the hearty support of every student and teacher on the grounds.

BRAINS NECESSARY.

An editorial in the *Detroit Free Press* of April 17 discusses at some length the propositions of Mr. Quinn, a labor leader from Chicago, in which he is willing to work 10 years for a farmer providing at the end of that time he is given a 40-acre farm. Mr. Quinn believes that the ownership of land is essential to prosperity and he seems to insinuate that anybody can farm. The editorial concludes as follows:

Mr. Quinn, however, has probably underestimated the strenuousness of the farmer's life. There is a prevailing belief among the laboring men of cities that it is easy to be a successful farmer if the plutocrats will only let you get hold of the land. As a matter of fact, it requires much less brain and much less industry to gain a comfortable living in the city than in the country. Any man that has strength and intelligence enough to swing a pick can manage to make a living in town. It requires brains and skill to make a living on a farm. The necessities of farm life demand far more mental capacity and alertness than the necessities of city life. Most ordinarily successful city folk, if they were transferred to the country, would starve, or drag out a miserable existence. Before Mr. Quinn decides to exchange the simple life of the labor leader for the complicated life of the farmer, he will do well to determine whether he is really capable of being a farmer. To order a strike is simple business; but it takes ability to order a farm.

ALUMNI.

With '67.

Isaac E. Barnum recently died in Denver, Colorado, from an attack of pleuro-pneumonia. He was born in Paw Paw, Michigan, May 19, 1842. He entered M. A. C. in 1863, but left at the end of the year to enlist in the United States navy. After being mustered out, he entered the law department of the university and upon graduation established a law business in his native town. In 1874 he moved to Chicago and in 1877 to Denver. Here he soon became one of the leading members of the bar. He was always active in public life but seldom allowed his name to be mentioned in connection with any office. He served as police magistrate of Denver for one term. He was a member of the Central Christian church and frequently conducted its services. Mrs. Barnum and one son, E. A. Barnum, survive him. THE RECORD extends its sympathy to the relatives and friends of the deceased.

'89.

B. K. Canfield, "Bartley," receives favorable mention in *Cafein's American Masters of Sculpture*. His modelling of children's heads is pronounced especially fine. The book contains a beautiful photograph of Mr. Canfield's work.

'91.

Prof. C. F. Wheeler, of the U. S. Department of Agriculture, will have charge of the botanic garden at the St. Louis Exposition. He is staying at the home of Mrs. Oscar Clute. Prof. Wheeler is one of the foremost systematic botanists in the United States, and has a host of friends at M. A. C. and among the alumni, so many of whom had the pleasure of being in his classes.

'95.

Clay Tallman, a senior law at the University, visited his classmate, G. Masselink, and called on friends at M. A. C. last Saturday and Sunday. Mr. Tallman is especially interested in law as applied to mining and has written a thesis on the rights of incidental veins. He will probably locate in some western state this fall.

'96.

R. E. Doolittle, state analyst, is in St. Louis this week arranging the exhibit of the National Association of Dairy and Food Departments. Mr. Doolittle is a member of the committee which has charge of this work.

N. M. Morse has charge of a 600-acre farm near Carson City, Mich. His crops are large and he also has considerable live stock. Reports say that he recently joined the band of benedicts.

'99.

S. L. Ingerson is employed in Battle Creek at present. He visited at M. A. C. last Saturday.

THE M. A. C. RECORD.

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EDITORS.

G. MASSELINK, MANAGING EDITOR.

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TUESDAY, APR. 26, 1904.

NOTICE.

The fifth annual intercollegiate oratorical contest of the Prohibition League will be held in the Armory Friday evening, April 29, 1904, at 8 o'clock. Watch for further announcement. The colleges of the state, including the university, will take part in this contest.

BASEBALL.

Michigan played Kalamazoo 6 to 4, Albion 17 to 0, Hillsdale 9 to 3, and came to M. A. C. last Friday ready to retrieve last year's defeat. The game was a good one and closer than the score would indicate. Two costly errors netted the U. of M. three runs. Aside from this the playing on both sides was about even. An occasional shower interfered somewhat with the best work. M. A. C. is satisfied in every respect. Michigan said we hit Nagle harder than Wisconsin who secured the same number of runs. The errors were made in the second and fourth innings.

U. of M.	AB	R	BH	PO	A	E
Redden 2	4	1	1	2	4	0
Bird c	4	2	0	3	3	0
De Pree 1	5	1	2	12	1	0
Campbell s	5	0	3	2	2	0
Boyle 3	5	1	1	1	0	0
Aldringer 1	4	0	1	5	0	0
Turner m	2	1	0	1	0	1
Kaufman r	4	1	1	1	0	0
Nagle p	4	0	0	0	4	0
	37	7	9	27	14	1

M. A. C.	AB	R	BH	PO	A	E
Millar 3	4	1	2	0	1	1
Canfield 2	4	1	2	4	0	2
Chapman c	4	0	1	7	1	0
Armstrong s	4	0	0	2	4	0
Bowditch 1	4	0	0	1	0	0
Ellsworth m	3	0	1	2	0	0
Towner r	3	0	0	0	0	0
Rasmussen 1	3	1	1	8	0	1
Hyde p	3	0	1	0	3	0
	32	3	8	24	9	4

U. of M.	1	2	3	4	5	6	7	8	9	R
U. of M.	0	3	0	3	0	1	0	0	0	7
M. A. C.	0	0	0	1	0	0	0	0	0	3

Earned runs, M. A. C. 3, U. of M. 4. Three-base hit, Redden; two-base hits, Millar, 2; Canfield, 2; Chapman, 1; Depree, 1; Boyle, 1. Struck out, by Hyde 5, by Nagle 3. Bases on balls, off Hyde 3. Um-

pire, Byron. Attendance, 1200. Time, 1 hr. 50 min.

The features of the game for Michigan were the fielding of Aldringer and the work of De Pree on first; for M. A. C. Millar and Canfield's batting, Ellsworth's running catch and Hyde's excellent pitching. The Michigan team are hard hitters, but Hyde proved quite a puzzle. Chapman, although injured, caught a fine game. M. A. C.'s team work was good and each man put up a fine game.

WELLS VICTORIOUS.

Wells Hall distanced Williams and Abbot in the field meet last Saturday. The following were the events:

120-yd. hurdle—McKenna 1, Small 2, Martin 3, Graham 4. Time 17 1-5 sec.

Shot put—Kratz 1, McKenna 2, McDermid 3, Hyde 4. Distance, 33 ft. 8 in.

Two-fifths mile—Burrell 1, Verran 2, Wessels 3, Wait 4, Manning 5. Time 1-43 2-5.

100 yds—Graham 1, Bennett 2, McKenna 3, Pearsall 4, Lambert 5. Time 10 2-5.

Hammer throw—McKenna 1, Kratz 2, Hyde 3, McDermid 4, Case 5. 100 ft. 5 in.

One-fifth mile—Graham 1, Bennett 2, Martin 3, Rogers 4, Grover 5. 43 3-5 sec.

Four-fifths mile—Burrell 1, Leach 2, E. R. Graham 3, Hart 4. Time, 4 27 3-5.

Discus—F. Kratz 1, A. Kratz 2, Lambert 3, Pearsall 4, Case 5. 101 ft. 10 in.

220 Hurdle—Graham 1, Martin 2, Small 3, McKenna 4.

Running-broad jump—Pearsall 1, Small and Manning 2, Lamb 4, Wait 5. 20 ft. 4 in.

Running high jump—Small 1, Manning 2, Martin 3, Graham 4, Sterling 5, 5 ft. 3 in.

220 dash—Graham 1, Pearsall 2, Lambert 3, Sterling 4, Lamb 5. Time 24 seconds.

1 3-5 mile—Wait 1, E. R. Graham 2, Holdsworth 3, Hagadorn 4. 9 min. 42 sec.

Pole vault—Small 1, Stevens 2, Lambert 3, Manning 4. 9 ft. 9 in.

The features of the meet were the performances of Mr. Kenna, Kratz, Burrell, Small, R. C. Graham and Pearsall. Moore, Hahn and Millar did not take part in the meet. The prospects are excellent, especially for a well balanced team. The wrestlers are doing good work. An inter-class meet will be held next Saturday afternoon. Every class is urged to send competitors.

OUR ADVERTISERS.

The business men who advertise in THE RECORD are reliable in every respect, and represent the leading firms in Lansing. Students in need of anything should consult the advertisements and patronize those who patronize us. Students at the University have threatened to boycott all firms who refuse to advertise in the university publications. THE RECORD does not wish to advocate this policy but does urge all to give the advertisers in THE RECORD a trial.

'00.

Miss Bertha Malone, a teacher in the high school at Centerville, Iowa, sent blanks to the members of

naughty naught a short time ago and kindly remembered the RECORD with the following list of addresses and occupations. Ye editor appreciates this very much. It is exceedingly difficult to secure reliable, up-to-date information regarding alumni. Let others follow Miss Malone's example.

'00.

Louis L. Appleyard, Schenectady, N. Y.

Chas. W. Bale, 158 Shepard Ave., Detroit, draftsman for Detroit Shipbuilding Co.

William Ball, 117 Benson street, Grand Rapids, mechanical engineer for Butterworth & Lowe.

Bronson Barlow, Guelph, O. A. C., Canada, teacher of bacteriology in Ontario Agricultural College.

A. G. Bodourian, Grove Cottage, Gorham, N. H., has charge of poultry in agricultural college.

H. L. Chamberlain, Houghton, Mich., instructor in Michigan College of Mines.

Alice M. Cimmer, 62 Merrit street, Battle Creek, Mich., teacher of domestic science and art in public schools.

Homer B. Clark, Muskegon Heights, Mich., draftsman for Morton Manufacturing Co.

Fred W. Dodge, Wellsville, O., assistant engineer for Penn. R. R. Co.

H. B. Gunnison, 1214 Jefferson Ave., Detroit, draftsman for Edison Illuminating Co.

C. H. Hilton, Benton Harbor, Mich., fruit grower.

W. B. Nevins, 3130 Michigan Ave., Chicago, draftsman for C. R. I. and P. Ry.

Geo. M. Odum, Salisbury, Rhodesia, South Africa, Rhodesia Department of Agriculture.

C. H. Parker, 143 Ransom St., Grand Rapids, manager of Sanitary Milk Co.

J. J. Parker, Quincy, Mich., draftsman for Wolverine Portland Cement Co.

W. T. Parks, 185 S. Front street, Grand Rapids, manager of Sanitary Milk Co.

H. Eugene Price, 216 Pennsylvania Ave. S., Lansing.

E. W. Ranney, Belding, Mich., utility man for Ranney Refrigerator Co., Greenville, Mich.

Harriette Robson, 655 2d Ave. Detroit, director of the courses in domestic science and domestic art in Thomas Normal Training School.

Harry Rupert, 114 Harding street, Elgin, Ill., machinist for Elgin National Watch Co.

C. H. Spring, 1214 Jefferson Ave., Detroit, Testing Dept., Cadillac Automobile Co.

Paul Thayer, Benton Harbor, Mich., fruit grower.

Irma Thompson, Keeler, Mich. H. A. Williams, Mulliken, Mich., R. F. D. 1, general farming.

Bertha Malone, 1503 So. Washington street, Des Moines, Ia. Teacher of mathematics and German in Centerville (Ia.) schools.

We have not recent addresses of the remaining five members of the class.

The rapid disappearance of wild flowers, ferns, and the mutilation of shrubbery in the vicinity of colleges has attracted the attention of most botanists in the United States. Thoughtless or selfish people pick or pull plants of spring beauty, trillium, adder tongue, toothwort, anemone, and many others, every one of which perishes from the woods or is nearly destroyed. Does the person say there are plenty left? Search the woods north of the hospital and behold the dearth of flowers, owing largely to frequent visits of people who have carried away a handful at a time, until now the supply is nearly exhausted and students go farther and farther back, especially to the college woods south of the river.

It is hoped that some of those most interested will organize a society for the protection of wild flowers. W. J. BEAL.

Miss Harding, ex-secretary of the Lansing Y. W. C. A., who has been doing Y. W. C. A. work in the mill district of Scranton, Pa., for the past year, talked to a large and appreciative audience at the Thursday evening, April 14, Y. W. C. A. meeting. She told of her work there, and of the great need of workers and urged the girls to take up the work when they have completed their college course.

The Union Literary Society gave a very pleasant 11 o'clock last Saturday evening. The music for the occasion was furnished by Messrs. Robinson and Netzorg. The programs were arranged as classification cards and contained among others the following subjects: Campustry 1 g, Museum 1 a, Club C, Please call, Car Station, Rustic Bridge, Pony 1 f and Special Exam. \$1. Among those present from outside were Clay Tallman, '95 and Miss Nancy MacArthur, with '96, of Ann Arbor, Dr. A. F. Gordon '91 and Mrs. Gordon and Miss Russell of Lansing, and Miss Jennie Masse-link, of Drenthe, who is visiting at her brother's. Prof. and Mrs. Babcock were the class officers.

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ABOUT THE CAMPUS.

Prof. Vedder was in Chicago last Saturday.

Three of the old barns back of faculty row have been torn down. All debris will be removed and the campus extended.

Mrs. H. E. Smith and Mrs. L. F. Newell received their friends at the home of Mrs. Smith on Hillsdale St., last week Saturday.

The *College Index* of Kalamazoo for April is a number of unusual excellence as to quality, engravings and general artistic arrangement.

The students in engineering have been conducting extensive boiler tests during the past week. The results have been very satisfactory.

J. W. Decker is in Oberlin College this spring. He started to work for the International Publishing Co., but the course at Oberlin proved too strong an attraction.

Fruit buds in the college orchard have not suffered to any extent thus far. Apples, pears, plums, apricots and cherries seem to have wintered well. Peach buds, however, have been killed at the college.

Students who have to make use of a Notary Public for business purposes should remember that F. C. Kenney of the Secretary's office is legally qualified to do work along this line.

Rev. Geo. Plummer who has been at the home of his daughter, Mrs. U. P. Hedrick, for the past year, leaves this week for Ely, Nevada, to visit a daughter residing there.

Ripe strawberries are found in the greenhouse. Several changes have been made, the most important one being the removal of the large plants, including the banana tree, from the east section.

The first championship game occurred last Saturday when Olivet defeated Alma. Some of the games will be played next week and the week following. The *RECORD* will publish the results and percentages.

Five members of the department of mathematics, headed by Prof. Babcock, practically finished the preliminary survey on the Pine Lake extension of the street railway last Saturday.

The Annual Intercollegiate Field Day will be held at Albion, June 3 and 4. M. A. C. and Albion wanted the meet but Albion's facilities for entertaining a large crowd were considered better than M. A. C.'s.

The instructors have organized a baseball team with Mr. Hopkins as manager and Mr. Towar captain. They challenge any team on the campus between the ages of 12 and 50 for a game.

See the manager for all side-bets, conditions, number of men, age, etc.

Bert Wermuth, secretary of the Y. M. C. A., has an interesting article on the treating of seeds in the *Michigan Farmer* of April 23. Mr. Wermuth was formerly connected with the horticultural department and had charge of the proper selection, care and testing of seeds.

A. B. Parson, general secretary of the Y. M. C. A. at the state university, will speak at the Union Meeting on Sunday evening, May 1. Mr. Parson is a Harvard graduate and a young man of considerable ability. His address will be interesting and should be well attended.

Miss Helen Andrews conducted the Thursday evening Y. W. C. A. Subject, "Heart Music." Miss Gilchrist lead the Sunday evening meeting. The subject of our religion in every day life and the reality of God as brought out through His presence in nature and His spirit in our lives were discussed.

Major Vernou is receiving favorable notice in the press concerning his work as inspector of the National Guard. The major not only criticises and instructs the men but the officers as well. One thing which is especially valuable in his work is his talk on conduct while off duty as well as when in the drill hall. "Be gentlemen at all times and do not disgrace your uniforms."

The jolly time attending the Phi Delta party, given at the Armory Saturday evening, will always remain a source of much enjoyment in the memory of the many friends and alumni. The armory was very prettily decorated with bunting and palms. The evening was ideal for such an event, clear and cloudless, with a balmy southern breeze that enticed many to seek the freshness of the open air. The music was excellent, and, to its strains, the dancers waltzed, two-stepped and otherwise made merry. The

announcement of the last dance was received with a tinge of regret. Chaperones, Prof. and Mrs. Brewer, Prof. and Mrs. Gunson.

The remarks of *THE RECORD* on the M. A. C. district school have not only germinated and produced vegetative organs, but have also blossomed and will bear much fruit on April 30. Instructor Longyear, expert in botanical lines, is responsible for this remarkable development. Shrubs, bulbs, flower seeds, labor, fertilizers and money are being offered to assist this worthy enterprise. The grounds will be fixed up in good shape and made to compare favorably with the College campus as to artistic arrangement and general neatness. Good!

In 1888, 12 trees were planted at M. A. C. on Arbor Day. Each class, the base ball team, the societies, the "Coeds" and the mechanics planted trees. Pres. Willits accepted each tree in a neat little speech. Four of these trees are still alive. The athletic tree was shot in the neck during target practice. The pepperidge planted by the ladies in the botanic garden had good care and flourishes today. The white oak between the library and the horticultural laboratory was planted by the Delta's. The black walnut west of the mechanical building was planted by the mechanics and bore fruit last year. An elm planted by the sophomores near the armory is alive but not much more can be said about it. There is a possibility that another is still alive but its location has been forgotten.

SUGGESTIONS AS TO CARE OF NEWLY PLANTED TREES.

Stir ground thoroughly every week until the middle of August. This kills the weeds and prevents evaporation of moisture. A mulch of straw or leaves can be used but should be removed before winter in order to prevent attack of mice. Watch the borers and remove them when found. Keep an eye on all injurious insects. Remove branches starting in the wrong place and pinch back those growing too vigorously. Raking the ground around the tree every week from early spring to August 15 or September 1st, is the essential thing. Very little watering is necessary if the ground is kept well cultivated. Trees are frequently injured and sometimes killed by the injudicious use of water.

Y. M. C. A.

The Thursday evening prayer meeting was led by Mr. C. C. Ford. Subject, "How shall we divide our time?" Ecc. 3:15. The discussion was led by Messrs. C. D. Sterling and E. N. Bates. The suggestions were helpful and to the point.

Saturday evening Mr. C. D. Hurrey, national secretary of the western colleges, addressed the men in chapel. His theme was, "The Battle of the College Man." It was a thoroughly practical address, the three principal enemies of the college man being shown to be profanity, dishonesty and impurity. The meeting was well attended for Saturday night.

Rev. E. M. Lake, of Lansing, conducted chapel service Sunday morning. His text was Matt. 9:9, and the sermon was along the line of choosing our companions. It was practical and interesting.

Sunday night Mr. Hurrey again addressed the young men. He showed the world-wide work of the Y. M. C. A., and the great need today for college men in this work, both at home and abroad. It was one of the largest men's meetings we have had this school year. The talk was an impressive one, and of the kind that brings men face to face with the problems of the association.

R. E. H.

'97.

James A. Elliott is a physician in Battle Creek.

With '97.

W. C. Stewart called at the College recently while taking an examination for admission to the bar in Lansing. Mr. Stewart passed the requirements and is now a full-fledged attorney.

'01.

Howard D. Severance, of East Jordan, visited at M. A. C. last Thursday. He has been doing some work in surveying in the northern part of the state and went to Chicago to secure employment in the railroad surveying.

R. L. Brown is a dairyman at Menominee. His business is prospering and he is spending his spare moments training a prospective M. A. C. student.

With '05.

Ray I. Vandercook was married to Miss Mabel E. Glaspie, of Deer-

field, Michigan, on Wednesday, April 20. They will be at home after May first. The Record extends congratulations.

F. W. Robison, chemist of the experiment station, has issued a bulletin on breakfast foods. Part one is a scientific discussion of the compounds and laws of nutrition. Food is defined as "any substance which, taken into the system, builds tissue or yields energy which is of use in the performance of natural functions." Part two is taken up with the breakfast foods in particular. Table I gives the trade name, manufacturer, weight and price per package of 48 different foods. The weight of a package varies from 10 ounces to two pounds. The price varies from 10 to 20 cents per package, the lighter ones being in no case the lowest in price per package. Table II gives the analysis of each compound as to per cent of moisture, crude protein, carbohydrates, fats, crude fiber and ash. The fuel value in calories is also given. Table III gives the soluble and insoluble percentages. The insoluble starch varies from 17.59 per cent to 77.13 per cent. 36 of the 48 samples of predigested (?) foods contained over 60 per cent of insoluble starch. The fuel value of the foods is about one-half that of butter and salt pork, the average being about the same as cheese. Table V is the most important one in the bulletin. It shows the comparative food value of the 48 breakfast foods and 15 of the principal foods, such as eggs, meat, milk, cheese, potatoes, bread, corn meal, etc., on the basis of the amount which can be bought for 10 cents. From the standpoint of cost, corn meal furnishes more than twice as much nourishment as any breakfast food. White wheat bread is just about the average. In discussing the presence of fiber, Mr. Robison says that while breakfast foods contain a considerable amount of fiber, the presence of this very fiber contributes to their wholesomeness because it gives bouyancy and bulk to the meal and aids the digestive organs in their peristaltic action. Some of the foods are exceedingly palatable and this is an important factor in the solution of human food. The bulletin contains nine important conclusions, the principal ones being that *oatmeal* is ahead of most of the preparations, that predigestion is only partial, that the price is excessive and that the claims made for many of them are not warranted by the facts. The bulletin is exceedingly interesting and is a valuable contribution from the scientific as well as practical standpoint.



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