

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 8.

LANSING, MICHIGAN, TUESDAY, SEPT. 30, 1902.

No. 3

NOTICES.

Meeting of all RECORD editors tomorrow (Wednesday) evening in College Hall, room 7, at 6:45.

All students who took the RECORD last year and desire the paper this year are requested to inform the Secretary of their present location.

The old members of the Faculty Shakespeare Club and others of the College Community interested are requested to meet on Wednesday evening, Oct. 1, at 7:30 p. m. at No. 6 Faculty Row.

H. EDWARDS.

In renewing subscriptions to the RECORD, those living at a distance are asked not to send stamps. Any other form of payment is acceptable.

Found.—A Scott and Denny Composition-Rhetoric. Owner can have same by calling at room 102, Wells Hall. F. E. MANGOLD.

M. A. C. vs. Detroit College, Saturday, 3 p. m. on new field.

The question for debate in the debating club next Thursday evening is: *Resolved*, That the operators of the anthracite coal mine are to be commended for refusing the demands of the striking miners.

Two unfurnished rooms for rent on Delta. No ladies nor students. Inquire E. E. Bogue.

BOARD MEETING.

The State Board met in the St. Clair hotel, Detroit, Sept. 23 and passed upon several routine matters of business. Every member of the Board was in attendance except Mr. Wells.

The members of the Board decided to instal the heating, lighting and power plant as designed by Prof. Weil. The matter of its construction was placed in the hands of a committee consisting of Pres. Marston, President Snyder and Secretary Brown. A resolution was passed setting aside \$60,000 for the building of a central boiler house with its necessary equipment and the instalment of a water system.

After allowing some smaller appropriations, the Board adjourned to meet Nov. 11 at 10 o'clock in the College Board rooms.

FOOT BALL.

The football team played its first game of the season Saturday at South Bend against Notre Dame and was beaten by a score of thirty-two to nothing.

M. A. C. was out-weighted twenty pounds to a man and considering that Notre Dame is an old and experienced team, the showing was a good one for our team. Only once during the first half did M. A. C. get the ball and was then forced to punt. In the second half M. A. C. gained thirty yards without losing the ball and it looked like a touchdown. A mistaken signal left the ball in the quarterback's hands who advanced it and thus lost it to the other side.

Notre Dame after that never made a punt and the game ended with the ball near the center of the field. The most of Notre Dame's gains were made around the ends. M. A. C. was extremely weak in tackling and several times after catching a man behind the line, lost him. The game showed many weaknesses which time and training will eradicate. The line up:

M. A. C.		NOTRE D.
Courtwright	r. e.	Lonergen
Kratz	r. t.	Desmond
Meek	r. g.	O'Mally
Decker	c.	Steiner
McDermid	l. g.	O'Connor
Peters	l. t.	Cullivan
Burrington	l. e.	Neyere
Childs, D.	l.	McGlue
Childs, H.	r. h.	McDermont
Smith	l. h.	Doar
Agnew	f.	Salmon

Timers: Wheeler, M. A. C.; Dempsey, Notre Dame. Referee, Brainard. Umpire Mayor Fogarty of South Bend. Linesman, Eaton, M. A. C.

FACULTY RECEPTION.

The Faculty Reception to students new and old was held in the Armory Friday evening from 8 to 10. This custom has been in vogue at M. A. C. for several years, and the general purpose needs no explanation.

Most of the faculty were in the receiving line, a few belated arrivals being excepted. President and Mrs. Snyder were at the head of the line, and students were introduced by Mr. J. G. Moore, '03.

Receptions in general are commonly considered to have much of sameness about them, and certainly no novelties were in evidence Friday evening, which was as it should be. Many students went the rounds of the receiving line, and it is no polite falsehood to say that all had a good time. The proverbial punch bowl with orange flavored liquid gave relief to the thirsty, and there were also cracker wafers, the refreshment tables being presided over by Y. W. C. A. girls.

Toward the close of the evening, Miss Freyhofer gave some piano selections, and Miss Staley sang. The audience heard all the musical selections with genuine appreciation though the poor acoustic properties of the Armory were detrimental to the best effects. Miss Staley has a pleasant, well trained, soprano voice, and her presence before an audience is very fine.

CLUB MEETINGS.

The Horticultural Club met last Wednesday evening for the first time this term. Prof. U. P. Hedrick gave a talk on varieties of pears, illustrating with specimens. The varieties discussed were the White Doyenne, Gray Doyenne, Burre Hardy and Seckle. The following officers were elected:

Pres.—S. B. Hartman.
Vice Pres.—F. C. Reimer.
Sec.—R. G. Thomas.
Program Comm.—Prof. U. P. Hedrick, J. G. Moore, Mr. Hogan-

son. The next meeting will be held Wednesday evening, Oct. 8.

The debating club met Thursday evening and elected the following officers:

Pres.—A. C. Miller.
Vice Pres.—R. G. Thomas.
Sec. and Treas.—S. B. Hartman.
Critic—Thomas Gunson.
Program Committee—Howard Severance, Dr. Edwards, Prof. W. O. Hedrick.

It was voted to hold the first preliminary debate the fourth week of this term.

Y. M. C. A. NEWS.

The Thursday evening prayer meeting was led by Mr. A. B. Rogers. Topic, "The Parting of the Ways." The spirit of the meeting was excellent and the attendance good.

Chapel exercises Sunday morning were conducted by Rev. W. H. Pound, pastor of the Plymouth Congregational church, Lansing. Text, Acts 28:15, last clause, "When Paul saw, he thanked God, and took courage." In our age of the world we have every reason to take courage; we live in a land of Bibles, where every man is at liberty to follow the dictates of his own conscience, besides we do not have to stand alone for there is a host that finds its pleasure in serving God, thus having companionship all along the way. Therefore let us take heart and be of good cheer.

The union meeting of the Y. M. and Y. W. C. A. Sunday evening, was conducted by E. A. Seelye in the interests of Bible study. Mr. C. C. Wood, of Lansing, addressed the student body on the value and importance of Bible study work. As the spiritual and moral qualities of man are of even more value than the mental or physical, so it is a greater folly to neglect their development than to neglect the development of the intellect, however great may be the folly of doing that.

Abraham Lincoln was master of the Bible; he could quote it as few men can. This came of earnest, hard, long continued study of the Bible, for you remember that Lincoln had only three books to study until he became a young man. These three books were the Bible, Shakespeare, and Milton. These he mastered. Much of Lincoln's success as a public speaker came through his ability to accurately quote the Bible at the right moment. Besides the intrinsic value of the Bible in moral and spiritual training it has a great value as a work of literature, ranking with the highest standards we have, in fact being the highest standard itself and from this point of view alone it is culpable negligence on the part of anyone to be ignorant of what is in the Bible.

'02. Miss Clare Dean, who has a position as instructor in sewing and cooking at Knoxville College, Tenn., passed a few days at M. A. C. while on her way South.

ALUMNI.

ALUMNI VISITORS DURING THE SUMMER.

There is given below an incomplete list of alumni who visited M. A. C. during the past vacation:

With '99, W. E. Mills was at the College one day excursion week. Mr. Mills has been in the Philippine Islands for some time as a private and has now been promoted to second lieutenant. His regiment is stationed at Madison, N. Y.

'90, L. A. Clinton, late of Cornell University, now professor of agriculture in the Connecticut Agricultural College. A more extended notice of his appointment will be given in a later issue.

'01, V. M. Shoemith was at M. A. C. excursion week. Mr. Shoemith teaches in the Kansas Agricultural College for his second year.

'93. Mr. and Mrs. Dick J. Crosby, '93, are now at home at 223 R. St., N. E., Washington, D. C.

'01. The following letter received from George Severance, Pullman, Washington, is of interest:

"I am rather pleased with the possibilities here, and with the character of the country. While for miles and miles there isn't an acre of really level land almost every foot of the ground is tillable. There is practically no difference between the crops on the steepest hillside and those in the hollows. An important feature of our rainfall is that it comes so slow that it soaks in right where it falls, then the soil has such a remarkable power to retain moisture that it doesn't drain away from the side hills to any great extent, but remain there until it is used up by the crop or evaporated away.

"The stock of hogs here would make the folks eyes hang out at M. A. C. They have something over 100 here, and they are first class animals. They have some good cattle, but are not up to M. A. C. by a long ways. Prof. Elliott is an enthusiast over live stock, and the college is looked to by the farmers as the great source of improvement for Washington farmers. They make a big business of selling hogs to the farmers, and could sell many more than they raise.

"The buildings are all good ones and the laboratories are well equipped for a school of its size. There is no agricultural laboratory building. The agricultural department occupies three rooms on the first floor of Science Hall. Things are moving along here nicely toward a well equipped institution. They are putting up a big chemical laboratory this summer. Last summer a good gymnasium and armory was constructed. Next summer it is expected to construct a dairy building. The future of the school looks bright now.

"I had a splendid trip coming out.

(Continued on page four)

THE M. A. C. RECORD.

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M. P. WILLET, '04.

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E. S. GOOD, '03.

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TUESDAY, SEPT. 30, 1902.

THE second annual intercollegiate debate between teams representing M. A. C. and the State Normal School takes place during the spring term at Ypsilanti. M. A. C. will defend the negative side of the question, *Resolved*, That government ownership and operation of railroads is desirable in the United States.

It is high time that all who desire to get on the M. A. C. team should be thinking seriously about the matter. Some of the recent new books bearing on the question and to be had in the library are: Thomas Curtis Clark and others, *The American Railway*, being a series of essays; Green, *Corporation Finance*; Eaton, *Railroad Operation*; Pendleton, *Our Railways*; Haines, *American Railway Management*. These books will prove highly interesting to any one, whether or not he be interested in the coming debate.

At the present time the railroads in the United States are merged in five systems namely; The Vanderbilt, Pennsylvania, Morgan, Harriman, and Hill systems. The territorialization of railroads and the identity of interest of all systems tend to make a monopoly of the railroad systems in the United States, and with this tendency, the rapid rise in rates together with the excessive re-capitalization within recent years make it exigent for the public to know how these roads are to be controlled. As to whether we should look to private ownership or government control for the solution of the railroad problem, opinion is about equally divided among those who have given most thought to the subject.

To go back to the beginning, the M. A. C. team should be chosen months before the inter-collegiate debate and previous to that debate should discuss every possible phase of the question, that the whole may be entirely in hand. The question for debate this year is largely a technical one and the winning team will doubtless be the team, having the greatest mastery of the technicalities.

JUDGE CARPENTER.

The *Detroit Free Press* last week had this to say regarding an M. A. C. graduate, the comment after the first paragraph being by Dr. Beal: The nomination of Judge William L. Carpenter, of Detroit, for the office of justice of the Supreme Court is in all respects a worthy one. Judge Carpenter has been on the circuit bench of Wayne county for many years, and his record as a judge will bear the most minute scrutiny. He is not only well informed in the law, but he has the judicial temperament, and a large measure of moral courage. He has long been recognized as one of the ablest judges on the circuit bench, and the Republican party could not have made a happier choice of a candidate for justice of the Supreme Court. If Judge Carpenter is elected to the higher office, he will prove a most worthy addition to the supreme bench. As to the nomination of Judge Carpenter for the vacancy on the Supreme bench caused by the death of Judge Long, that was simply a matter of form, the bright Detroit jurist being nominated unanimously.

William Leland Carpenter graduated at this College in 1875 and at the Law School of the University of Michigan in 1878. He was the son of the late Hon. C. K. Carpenter and was brought up on a farm at Orion, Oakland county. He was most fortunate in being the son of a father and mother of fine ability who possessed an unusual amount of energy and good common sense. Besides William, two brothers and two sisters, five in all, completed the course at M. A. C.; Rolla C., '73, now professor of experimental engineering in Cornell University; Lewis G., '79, professor of civil and irrigating engineering and director of the experiment station in Colorado Agricultural College; Mary L., '88, the wife of N. S. Mays, '88, professor of veterinary science at Kansas Agricultural College; Jennette C., '98, now the accomplished instructor in cookery of this institution.

While a student for a few years, I well remember William as a rather quiet, even-tempered and good-humored young man of robust health. He was always in the first rank as a student. As a member of my botany class in 1873, he was the best of a class of twenty-four, ranking as perfect. He was a good investigator, observer and reasoner, unsurpassed in his ability to get all the meat out of the text books and to state the contents correctly. His memory was remarkable. In those days on Saturday mornings it was customary for the different members of the faculty to each meet a class of students for an hour to drill them in composition and declamation, and if Mr. Carpenter has not proved to be noted as a fiery and eloquent pleader at the bar, it may be charged to the fact that he was allotted to the rhetorical class conducted by the writer. W. J. B.

COLLEGE EXHIBIT.

The College made a fine exhibit at the Pontiac Fair last week in one of the wings of the main building, and the display attracted a great deal of attention from visitors besides being eminently satisfactory to the College.

Perhaps the best feature of the

College exhibit was that of the mechanical department in charge of Mr. Cochrane. Blue prints and photographs made by students in the department were much in evidence as well as parts of machines and samples of woodwork. The whole attracted a great deal of attention—especially the attention of young men.

The farm department had a display of corn and oats, photographs of stock and a number of prizes taken at the Chicago International and other live stock shows. Instructor Michels gave daily demonstrations of the art of butter and cheese making.

The experiment station made an exhibit principally of legumes, showing living varieties and seeds and roots. Certain varieties of wheat for successive years were shown, the difference in the wheat by reason of change of seasons being apparent.

The Upper Peninsula experiment station made an exhibit of grain in straw and in bottles, also vegetables of all sorts. Two salient features of this display were the two exhibits of potatoes, one exhibit showing the effects of fall and spring planting, in two rows of parallel plates, the potatoes planted in the fall being much the larger and fully ripe, whereas the spring potatoes were unripe, the other potato exhibit showing the effects of spraying with Bordeaux mixture for different forms of blight.

The horticultural department displayed one hundred varieties of potatoes, thirty varieties of tomatoes, one hundred and fifty varieties of fruit, and a miscellaneous collection of vegetables, the whole being in charge of Mr. M. L. Dean.

The exhibit of live stock was, according to Prof. Shaw, quite satisfactory, the principal breeds of beef and dairy cattle, sheep and swine being displayed. The rain during the week kept many visitors away, and besides prevented the best display of the live stock.

THE NEW FIVE-YEAR COURSES.

It is early as yet to say with certainty what are going to be the benefits resulting from the new five-year courses, and the following comments are made chiefly to explain what these courses are, in a belief that comparatively few interested in the College have definite ideas as to their significance.

The new five-year courses for agricultural students and for women

place the requirements for graduation for all students, as nearly as can be, on an equal footing. The entrance examinations for all five-year courses cover the following subjects: Arithmetic, geography, grammar, reading, spelling, penmanship, and history of the United States. For admission to the four-year courses, students must hold diplomas from high schools on the accredited list of the College, or must, in addition to the requirements for entrance to the five-year courses named above, pass examinations in algebra through quadratic equations, in plane geometry, in elementary physics, and in English.

As has been stated in other words, the student completing a five-year course completes no more work than does the student who, having completed more work in the secondary school, takes a four-year course. The chief advantage which the student taking the five-year course has over one taking the four-year course is in the thoroughness of preparation for the four years of the real College course; for by common consent the laboratory facilities, general equipment, experience of teachers and general environment of the college of necessity surpass the things respectively corresponding in the best of the secondary schools.

The last two years of all four-year and five-year courses at M. A. C. are the same. The sophomore year of the five-year mechanical course is the same as the sophomore year of the four year course, except that a less amount of shop practice is required during this year in the five-year course. A comparison of the studies pursued in the fall term of the sub-freshman and freshman years of the agricultural courses will perhaps give a general indication of the difference between the four-year and the five-year courses. The four-year agricultural freshman in the fall term studies stock judging, general elementary chemistry, voice culture, algebra (advanced), botany, fruits and seeds, personal hygiene, besides having drill. The sub-freshman has agriculture, grammar, composition, algebra (beginning), free-hand drawing, personal hygiene, structural botany and drill.

'02. Miss Elma Bowerman, '02, gave her friends at M. A. C. a flying visit as she passed through on her way to Chicago, where she will take a course in languages and English at the Northwestern University.

'00m, H. B. Gunnison is with the Edison Electric Company, Detroit.

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ABOUT THE CAMPUS.

Prof. Barrow's house is being repaired.

P. M. Lyman is at the college again after having spent some time at the Pontiac fair.

Miss Mary Smith, with the class of '03, is teaching kindergarten at Iron Mountain, Upper Peninsula.

The seniors in horticulture go with Prof. U. P. Hedrick to the Western Michigan Fair at Grand Rapids this week.

President Snyder gave the new students some wholesome advice not long ago, his remarks being somewhat explanatory of the ways of College life.

Miss Baldwin, who has been stenographer in the Secretary's office for some time, will be stenographer in the bacteriological department hereafter, and Miss Earle will be the Secretary's stenographer.

There has been no green scum on the pond back of the Woman's building for a month. The Horticultural department has found that spraying with Bordeaux mixture is effective in removing the nuisance.

The new military curriculum which has been talked about in the papers the past week calls for five hours of drill each week in institutions of the second class to which M. A. C. belongs. Guard mount is also called for five times per week (weather permitting) during the school year. Several other changes also appear in the new curriculum which was put out Aug. 9, '02.

Mrs. W. E. Ward of Milan, Mich., is visiting her daughter, Mrs. F. W. Robison.

The College will experiment with smokeless coal this year wherever hard coal was used last year.

President Roosevelt, it is worth noting, ate the M. A. C. butter while stopping at the Hotel Cadillac on his Detroit visit.

Prof. Sargent of Harvard has sent to the Botanical department for the fruit of certain marked species of hawthorn for study. Some of the species at M. A. C. being new.

Owing to complications which have arisen in the past, it has been deemed necessary by the faculty to require the M. A. C. laundry agents to do a strictly cash business in the future.

Students are not only at College to receive technical education but to learn business methods and principles as well, and under the old system, in which they were allowed to run their bills, principles directly opposed were encouraged.

The system which has received the approbation of those in authority and which has been considered the best solution of the problem is the check system, which is used extensively in the larger cities. The patron purchases a certain amount of credit, receives a receipt of the agent, is given credit for the amount by him, and credited until his deposit is used up. The patron has his bills on his returned bundles to check his agent, thus insuring himself against possible mistakes.

There are two hundred and forty-five new students in general chemistry.

F. D. Linkletter writes that he will be in College during the winter and spring terms.

Three of the women students are employed in the herbarium all their spare time in mounting specimens.

The recent rains have made some dangerous gullies on the north side of the road between the two portions of the botanic garden.

Miss Bessie Buskirk received a visit of a few days from Miss Zaidie Vosper, who was with the class of '02. Miss Vosper is a junior at Ann Arbor and was on her way to the University.

The Y. M. C. A. is making an effort to raise, by subscription, one hundred and fifty dollars, for the purpose of fitting up its rooms. About one hundred dollars of this amount have already been subscribed.

The physics department has for use this year a considerable amount of new apparatus. A moment of inertia apparatus, and inclined plane, bending of beams, simple pendulum, all made by the department; and from a Chicago instrument maker a force table and a Young's modulus apparatus; for use in electricity have been added several banks of lamps made by the department together with a subdivided condenser and a resistance box from eastern makers. In addition to this new apparatus, the air pump and induction coil of the department have been remodeled.

Miss Beebe has returned from her visit to Jackson.

W. J. Wright assisted Mr. Dean in looking after the Horticultural exhibit at Pontiac last week.

The new equipment for the bacteriological laboratory is being unpacked.

J. J. Ferguson, instructor in animal husbandry last year, visited College friends over Sunday, while on his way home to Canada from the Pontiac fair.

Howard Barnett, son of Frank Barnett, with '78, and George Pardee, son of Dr. J. S. Pardee also class of '78, are among the new M. A. C. students.

The program committee of the Botanical Club is composed of the following members: R. L. Brown, F. M. Morrison, C. Frank Wells. The list of the other officers was printed in the first issue of the RECORD.

The football gridiron on athletic field is now enclosed by a rectangular fence, the east side being about two rods west of the base ball backstop and parallel with it. A new fence has also been built around the athletic field immediately outside of the running tracks.

The driveway on the north side of the dairy building has recently been fixed over, by the construction of a cement wall on the outer side of the driveway, and by the raising of the driveway. The floor where the milk is received will be lowered to facilitate in unloading the milk.

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ABOUT THE CAMPUS.

The lights along faculty row and in Abbot Hall were turned off part of the time last week causing some inconvenience.

A set of the Universal Classics Library, consisting of twenty volumes of classic literature and one volume of fac-simile manuscript, also a set of the Imperial Reference library in six volumes, consisting of dictionaries, encyclopedia and atlas of the world, have been added to the library recently.

The annual meeting of the Association of Agricultural Colleges and Experiment Stations will take place at Atlanta, Ga., October 6th, 7th and 8th. Those who will attend from the College are—President Snyder, representing the College, Professor Smith, representing the Experiment Station, and Captain Allen, representing the State Board.

ALUMNI.

(Continued from page one.)

I made nearly all the journey by daylight. I stopped at Minnesota, North Dakota and Montana stations. I saw "Bobby" Northrop at North Dakota. He is doing a good business there. He has to manage the outdoor work on the Horticultural, and everything is as slick as a ribbon.

"I saw Gordon Tower at Bozeman. He is at work with two other college boys about 13 miles up the mountain from Bozeman. He is looking well. He has a good beard started, and a healthy tan on his face."

'88. J. N. Estabrook is spending a few days at the College, the guest of Postmaster Collingwood. Mr. Estabrook was assistant Secretary from '89 to '92.

'93-'96. Henry C. Matheson, '93-'96, Elmina J. Keeler, married Wednesday, June twenty-fifth, nineteen hundred and two. At home after August 1st, 1902, Lewiston, Idaho.

'01. Instructor Humphrey judged stock at the Genesee county fair last week.

'02. Matt Crosby when last heard from was located at North Yokima, Washington.

PRACTICAL RESULTS.

The following is an extract from *Wallace's Farmer*, which is published in Des Moines, Ia., and which has a wide circulation in the middle west. Mr. O. H. Barnhill, of Page county, Iowa, contributed the original article to the *Farmer*, the hired man referred to evidently having been at some time an M. A. C. student:

M. L. Sherman, of Ingham county, Michigan, hired a young man who had graduated from an agricultural college and the results were so wonderful and far reaching that I am going to ask our editor to reprint portions of his letter. Our farm colleges could well afford to print it in pamphlet form and send it into every farm home in the United States. We need to be awakened to the value of an agricultural education, what it will accomplish for us and our children. Few of us have an adequate conception of the possibilities along this line. But listen to Mr. Sherman's story:

"For two years I had a hired

man who had graduated from our agricultural college. Some of my neighbors called me a fool for paying the wages he demanded, but I never made a better investment. His knowledge was my lemon and I squeezed it. I bought some books on farm chemistry, botany, surveying and horticulture and took practical lessons of my hired help in these studies.

"My hired man honored his profession. In a few weeks my boy, lately indifferent to farm work, tagged around at his heels and begged to help him. My girl trailed after us with her botany. I stood speechless one summer day while she told me what Ruskin said about the clouds. Her fingers were in a book that had the hired man's name on the fly leaf. I looked through it and showed it to my wife. She said if such culture was agriculture she was glad her daughter was finding it out.

"That summer we began war on insect pests by studying entomology. My children went wild with enthusiasm, collecting specimens under the hired man's directions. Because he was watching for a certain moth, Will refused to go with some other boys to the circus, though the year before he came near running away to join a circus company. In his threat to do so he had quoted the frequent utterance of a neighbor, 'A farmer's life is a dog's life.' The life of my educated hired man, by its very contrast with a dog's life had saved my boy.

"Before summer was over our children knew the birds, their ways and haunts, from the bobolink to the owl. By October they had set themselves to protect quails and partridges. Agricultural science had taught them that most birds are farmers' friends.

"I had tried to forecast the weather by the barometer, but concluded that that instrument was too mercurial to be reliable. But Mr. Smith seemed to understand its changes sufficiently to keep our hay out of the way of long storms. His observations and mine were another example of the difference between educated and uneducated eyes. No new buildings were put up, but under Mr. Smith's directions I fixed over our barns and sheds until dryness, ventilation and convenience for cleaning were as good as in costly structures."

Does not Mr. Sherman's remarkable experience suggest the solution of that vexed problem, How to keep the boy on the farm?

President Mauck is the new head of Hillsdale College.

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