The M.A.C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

LANSING, MICHIGAN, TUESDAY, APR. 24, 1906.

THE ANNUAL CONCERT OF THE M. A. C. CHORUS, MAY 25.

VOL. II.

The above date has been decided upon as the one for the M. A. C. concert this spring. The chorus, consisting of ninety voices, will be assisted by baritone and soprano soloists from Chicago and Detroit and the concert promises to be one of the best ever. Remember the date and plan to be on hand. Further notice will be given in a later number of THE RECORD.

ALBION 0-M. A. C. 4.

With ideal baseball weather, Albion was beaten on her own grounds Friday by the above score. The work in fielding was especially fine, only one error being registered in the whole game. Thatcher pulled down one line drive and one fly in center field, Ellis took three in left, and all of the infield played a clean fast game. Akers pitched a splendid game and was supported in royal style by the whole team. He allowed no bases on balls and had Albion at his mercy at all times. Boyle caught a star game not allowing a single stolen base. Albion had only one chance to score when they had men on second and third with but one out. Akers proceeded to strike out Bliss and the next man hit an easy one which settled the score business. For M. A. C. Armstrong scored in the first inning and Thatcher, Bird and Ellis in the second. Aside from the pitching of Latham, Albion was outclassed at every stage of the game.

The score ·

	M. A. C.	R	H	Е	
	Armstrong s	. I	İ	0	
	Boyle c				
	Canfield 2	. 0	0	0	
	Akers p	. 0	I	0	
	Ellis1	. T	0	0	
	Thatcher m	. 0	1	0	
	Kratz 1	. Î	1	I	
	Bird 3				
	Dickson r	. 0	0	0	
	Totals	. 4	6	I	
	Albion				
	Maxon r	. 0	0	0	
•	Squire m	. 0	0	0	
	Howess				
	Bliss I	, 0	1	I	
	Ellerby 3	. 0	0	0	
	Frye c				
	Ellery 2	0	Ō	1	
	Moore 1	. 0	0	0	
	Latham p	. 0	0	0	
		÷	-	-	

Totals 3 5 M. A. C. 5-OLIVET O.

For the third time this season the M. A. C. ball team has shut out their opponents—in a practice game with L. H. S., at Albion, and again Saturday with the above college. Although it began raining Saturday morning, the sun came out again before noon and at three o'clock the diamond was in fine shape. Canfield did excellent work at bat, his three-base hit in the 3d starting the scoring. His single in the 8th also brought Boyle across the home plate. Nies pitched a steady game, allowing only one base on balls, and Boyle played his position in fine shape, not allowing a single stolen base. The home team registered seven. Armstrong at short, Kratz at 1st, and in fact the whole team played the best of ball and, as the summary shows, outclassed the visitors in every respect.

Olivet.	R	н	PO	A	E	
Lacey 1	0	1	I	0	0	
Bishop c			10			
Hurlbut 2	0	τ	2	2	0	
Weed 3	0	o	0	3	0	
Mahoney I	0	ī	8	0	I	
Larsen m	0	0	0	0	I	
Sheppard s	0	0	2	0	0	
Nevins r	0	0	0	0	1	
Chieseman p	0	0	1	2	0	
	_	-	1.	-	-	
Totals	0	4	24	9	3	
 Constant and a second se		1	12		1	
Armstrong s						
Boyle c						
Canfield 2				2	0	
Dickson	0	0				
Akers $\int^{\mathbf{r}}$	0	0	2	0	0	
Ellis 1	I	0	0	0	0	
Thatcher m			1			
		0	13	0	0	
Bird 3		0	2	I	1	
Nies p						
Transla	-	-	-	-	-	
Totals	5	7	27	15	2	

Orchard Lake Military Academy comes here next Saturday. This no doubt will be a good game, as the academy has one of the strongest amateur pitchers in the state. Complimentary tickets will be issued to all the Lansing high school boys for the game.

The inter class meet will also be held on this day and all contestants are working hard.

On Monday and Tuesday of next week De Pauw University comes here for a double header. They are among the leaders in base ball in the west and M. A. C. has never been able to beat them. These will be the big games of the season. They will be called at 4:10 each day, thus giving students a chance to get to the field after classes. Byron, of Detroit, will umpire.

FARMERS' CLUB.

The Tuesday evening meeting of the farmers' club was held in the Chapel. Dr. Edwards spoke upon the subject "Literature for the Farm Home." The attendance was unusually large, many Co-eds turning out to hear what the Dr. had to say relative to the farm home library. The speaker eliminated from his talk all literature pertaining to the agricultural profession as he considered that part indispensable and should comprise the larger portion of the reading matter.

The doctor divided literature into two classes, that of power and emotion. Both have their places in the farm home. The farmer should keep in touch with the outer world. There should be in every farm home plenty of good wholesome reading matter, so that leisure moments can be profitably devoted to intellectual

training. Every student should before leaving college start a small library of his own by purchasing a few good books and gradually enlarging as means will permit. The talk was very instructive and highly appreciated by all.

PROCLAMATION BY THE GOVERNOR.

To the People of the State of Michigan:

A calamity, appalling in its magnitude and in the suffering it has caused, has befallen the people of the state of California. They have received assurances of sympathy from every country of the civilized world. The people of the United States are called upon to do more than send sympathy, and the opportunity is presented to us as citizens of the state of Michigan to prove that we are responsive to the call for aid from a stricken sister state. It is a time when it should be remembered that "he gives twice who gives quickly."

The co-operation of mayors of cities, presidents of villages and other officials is asked in getting this matter before the people by calling public meetings or by taking such steps as they may deem best adapted to bring about the result which it is our plain duty to accomplish. The aid of churches, fraternal societies and other organizations, is requested, and the good work that can be done now by the press cannot be over-estimated.

Every contribution, large or small, sent to me for the relief of the sufferers in California will be at once acknowledged and transmitted to proper authorities.

Y. M. C. A.

The Thursday evening prayer meeting was addressed by Mr. Rittenour. The speaker brought out very clearly the necessity of practicing Christian principles in order to have an influence for good. He also developed the thought that our mode of life while here in College, determines to a marked degree the success of later life.

Sunday morning, Rev. Lake, of Lansing, preached to an appreciative audience in the chapel.

The union meeting Sunday evening was fortunate in having an address from Mr. Collingwood. He showed that in order to obtain success we must not become discouraged by the little trials of life but always work with the highest aims and turn seeming difficulties into stepping stones to better things.

Y. W. C. A.

The Thursday evening meeting was conducted by Miss Neina Andrews. The topic was Lakeside. Miss Andrews gave a very interesting account of her stay at Lakeside last summer, and asked that more girls plan to attend the Lakeside conference this summer.

ALUMNI.

No. 31

'78. Charles F. Shilling is a druggist at Decatur, Ill.

'86.

Walter E. Gammon, is engaged in fruit growing and general farming at Clarksburg, California.

'87.

Henry H. Winde was a merchant and lumberman at Perkins, Mich., until April, 1905, but is now located at 1448 W. 38th St., Los Angeles, Cal.

187.

Winthrop C. Hall, is a wholesale lumber dealer and secretary treasurer of Gibbs, Hall and Allen Co. His business address is 223 Widdicomb Bld., Grand Rapids, Mich.

93.

John B. Dimmick is a civil engineer, with address as follows: U. S. Assistant Engineer, Corps of Engineers, Pittsburg, Pa. Mr. Dimmick is at present in charge of construction of new lock and dam, No. 2 Monorgahela river, Pa.

97.

Herbert W. Hart is a druggist, with present address at Greenville, Mich., R. D. 2.

'98.

Word has been received of the birth on March 7, of Robert Carpenter to Capt. and Mrs. Wheeler at Ft. McKinley, in the Phillippine Islands. It will be remembered that Mrs. Wheeler, formerly Jennette Carpenter, of the above class, was for one year in charge of the domestic science department at M. A. C.

'02.

Lyman Carrier who left Washington about two months ago for a trip through "the sunny south," states that said trip has not been an exceedingly pleasant one owing to his catching a bad cold and also malaria. He was in the hospital at Meridan, Miss., for three weeks, but expected at time of writing to be out in a day or two and on the road again.

'04.

A. R. Carter has changed his address and will now be found at 1776 37th St., Chicago, Ill., and his work with the Illinois Central Ry., will be on the Lake Front wall for some time.

°04.

Sidney Johnson is now with the Trussed Concrete Steel Co. at Detroit. Sid likes his new field of labor and there seems 1 lenty of opportunity for advancement. The company has chosen a man who will merit said advancement.

With '04.

William Good, who entered in 1899 for a five year mechanical course, is homesteading in Oregon. His address is Klamath Falls.

THE M. A. C. RECORD. PUBLISHED EVERY TUESDAY DURING THE

COLLEGE YEAR BY THE MICHIGAN STATE AGRICULTURAL COLLEGE

E A. FAUNCE, MANAGING EDITOR

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This paper is occasionally sent to non subscribers. Such persons need have no besitation 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, APR. 24, 1906.

THE CORN SPECIAL INSTI-TUTES.

Some months ago the Michigan Central and Lake Shore railroads were asked to cooperate in the holding of a series of train institutes along their lines. They gladly agreed to the plan proposed and arrangements were made for fortyseven institutes. The railroad agreed to furnish a special train, including two passenger coaches and a baggage car, and the College was to supply the speakers and look after the local arrangemen's and the advertising. The newspapers and the officers of the county institute societies took up the matter and aided materially in securing an attendance of farmers,

It was thought advisable to give especial attention to the matter of "Corn Improvement" and "Corn Culture." Arrangements were made for holding six institutes each day, stops of one hour being made. The passenger coaches were used for the addresses and then about twenty minutes was devoted to the examination of the exhibits in the baggage car. The speakers were Prof. C. D. Smith who took up the matter of rotation of crops and the methods of securing the best results from the corn crop, and Prof. J. A. Jeffery who spoke upon the importance of greater care in the selection and curing of seed corn ; the benefits of seed testing and of seed breeding, both for the purpose of lessening the number of barren stalks and increasing the amount of protein in corn, and showed how a large increase in the average yield per acre could be readily secured.

The exhibit in the baggage car consisted of type ears of some forty varieties of corn, including five varieties each of Flint, Calico, and White-cap Dent and a large number of varieties of Yellow Dent, and numerous pans for testing the germination and strength of seed corn. Those which attracted most attention were shallow wooden or galvanized iron boxes filled with sandy soil. These were cut into checks one and one-fourth inches square by twine stretched at right angles over the surface. By means of one of these boxes, containing one hundred and sixty checks, it was possible to test the germination

of as many ears of seed corn, by taking four kernels from different places on an ear and placing them in one of the checks and by arranging the ears so that they could be readily identified. In case any of the kernels failed to germinate, or if any shoots made a weak growth, the ear from which they came can be thrown out.

Other pans were used to show the benefit of properly curing seed corn before it is exposed to frost. Two lots of kiln-dried corn gave 100 per cent. germination and all showed an even growth, while others taken from the crib gave respectively 1S, 52, 68 and 88 per cent. and in most cases the shoots varied considerably in size. The ears from which the corn was taken and bottles of shelled corn were shown upon which the effect of freezing in the crib could be readily noted. The results that could be obtained from keinels taken from the tip, middle and butt portions of an ear were illustrated by another p.n.

The exhibits also contained a model rack for the drying of corn and a set of cultivator shovels of different forms and sizes t at were used by Professor Smith to illustrate his talk upon corn culture.

The first meeting on the corn train was held at Lansing, April 7, and then leaving Lansing on the morning of Monday, April 9, a run of five days was made over the Lake Shire road, going over the Lansing branch to Hillsdale, from there over the Ypsilanti branch by the way of Brooklyn and Tecumseh to Adrian, thence to White Pigeon and Grand Rapids. On Saturday, April 14, a start was made from Grand Rapids over the Michigan Central to Jackson; from there the train went to Niles over the main line and returned to Jackson by the Air line.

The corn train was in charge of Professor L. R. Taft, Superintend-ent of Farmers' Institutes and, in addition to Professors Smith and Jeffery, carried representatives of the Michigan Farmer, Rural Magazine, Orange Judd Farmer and other papers. Mr. W. F. Raven, of Brooklyn, one of the regular institute lecturers was upon the train for two days and assisted in explaining the exhibits. The secretaries of most of the institute societies in the counties where stops were made were present at the meetings and several of them spent some hours on the train. Professor Thomas M. Sattler, the secretary of the Jackson County Farmers' Institute Society, was especially helpful and during the two and one half days he was with the train he aided ma'erially by showing the apparatus.

On Monday, April 16, the corn train was favored by the presence of Governor Warner, who took great interest in the meetings and made brief addresses at several places. Although it was not known that the Governor could accompany the train in time to have it advertised, he was greeted at Dowagiac by some two hundred school children to whom his remarks at that place were addressed.

Except one or two points where the meetings had not been advertised the attendance was much larger than had been expected; Eaton Rapids with 180, Decatur with 200, Hastings 250 and Dowagiac with 300 farmers giving the best audiences. The attendance at all points would have been much larger could the mee'ings have been held two or three weeks earlier as many farmers felt that they were too busy preparing their oat ground to stop work to attend the institute.

All along the lines the railroad officials took much interest in the meetings and the Michigan Central management not only furnished the special train as requested, but added a private car in which meals were served during the three days spent upon that road. The pleasure of the trip was also enhanced by the presence of four of the leading officials: J. H. Snyder, assistant general superintendent; M. P. Wright, division superintendent; Jos. S. Hall, for one day and Charles W, Mercer, for two days, traveling passenger agents; and E. A. Treadway, traveling freight agent. All of the above gentlemen took great interest in the meetings and seemed to be well pleased with the results secured.

It is hoped that the benefits that will come to the railroads from these meetings will be such as will induce them to furnish other trains for similar work in the years to come. The trains having been furnished without charge by the railroads, the cost of the institutes was comparatively small and as it was possible to take along suitable apparatus for illustrated talks, this as well as the novelty of the arrangement added to the success of the meetings.

L. R. TAFT.

CHICAGO ASSOCIATION.

The tenth annual dinner of the Chicago M. A. C. Association was a record breaker in attendance, informality and good fellowship. That the boys appreciate these meetings was shown by the pres-ence of L. H. Taylor from Cedar Rapids, Iowa, Joseph Merkle, Milwaukee, and Clarence E. Smith, Waukegan.

A striking menu card had been prepared by Williams, '96, Perrigo, '94, and Prost, '05. The leading feature of the card was a cartoon by Sam J. Kennedy. President Snyder was the guest of honor. His reports of progress, the pictures and plans of the new buildings which he exhibited, and his recital of college escapades of several of the boys present was the event of the evening.

Carefully prepared toasts were given by Clarence E. Smith, on The Good Old Days; Philip B. Woodworth, on The Chicago Boys; Thos. F. McGrath, on A Few Things Not on the College Curriculum; Sam J. Kennedy, on Latter Day Saints; and George W. Williams, on Roast Tenderloin of Beef.

The officers of the Association for the ensuing year are, President, Carlton R. Dart, '81; Vice President, William R. Rummler, '86; Secretary, Jack H. Prost, '05. The following men were in at-

tendance. Carlton R. Dart, 'S1; Clarence E. Smith, '84; P. B. Woodworth, '86; W. R. Rummler, '86; George L. Teller, '88; H. E. Harrison, '88; H. E. Weed, '89; Thomas F. Mc-Grath, '89; F. Baurle, '92; Wm. P. Hawlev, '92; W. F. Bernart, '94; John D. Nies, '94; J. W. Per-rigo, '94; G. W. Williams, '96, Fred Herbert, '96; N. C. Johnson, '96; D. T. Randall, '96; A. L. Pond, '97; Joseph Merkle, '97; Homer C. Skeels, '98; Charles Johnson, '99; Samuel J. Kennedy, '01; L. H. Taylor, '01; J. C. Green, '86; W. R. Rummler, '86; George 'o1; L. H. Taylor, 'o1; J. C. Green,

'o1; George D. Francisco, 'o2; W. G. Armstrong, '02; H. L. Mills, '02; D. W. Smith, '02; W. R. Brown, '03; E. W. Graves, '03; O. J. b3; E. W. Graves, 'o3; O. J. Dean, 'o3; Jas. A. Cooper, 'o3; J. A. Frazer, 'o3; H. D. Fargo, 'o3;
G. G. Robbins, 'o4; J. H. Prost, 'o4; F. C. Dauncey, 'o5; W. M. Johnson, 'o5; E. G. Kennev, 'o5;
C. A. Reed, 'o5; R. T. Stevens, 'o5; Clem C. Ford, 'o5; J. A. Haganery 'o6; G. Hendleman, 'o7; H. ganery, 'o6; G. Hendleman, 'o7; H. J. McNulty, '07, Former instructors-J. J. Ferguson, P. H. Stevens.

Attention of the meeting was called to the fact that every Saturday at 1 p. m. several of the M. A. C. boys lunch at White's restaurant, 92 Wahington Blvd. Every one is requested to attend when convenient and ask for the M. A. C. table.

[Regret very much that this report did not reach us in time for last week's issue .- ED.]

SENIOR ENGINEERING SOCI-ETY

At the last meeting, Mr. Hebblewhite talked on structual detailing. Mr. H. began his talk with a few remarks on "how to get a job." This, of course is a very interesting subject for the Seniors at present. Mr. Ranger discussed the development of the various forms of Steam Turbines. Mr. L. J. Smith gave a very interesting description of the National Cash Register Co.'s plant at Dayton, Ohio.

The Lansing Women's Club was entertained by the second division of the club at the Women's building on Friday afternoon of last week. A large number of guests, including the College Women's Club was present. The old favorite, "The Cricket on the Hearth," by Dickens, was given in pantomime, the cast of characters being as follows :

John Peerybingle, the carrier, Mrs. P. J. Hammell.

Dot, his wife, Mrs. J. W. Knapp. Tilly Slowboy, the nurse maid, Mrs. J. C. Shields.

Tackletan, the toy merchant, Mrs. Walter Foster.

Caleb Plummer, the toy maker, Mrs. Ella M. Kedzie.

Bertha, his blind daughter, Mrs. A. C. Lane.

Edward Plummer, the bridegroom, Mrs. E. M. Norton.

May Fielding, the bride, Mrs. Ray G. Jones.

Miss Gilchrist read the story which was reduced to three "chirps" and the cricket itself chirped most satisfactorily at appropriate times during the performance.

The Senior girls assisted in ushering and serving tes, and music was furnished by Misses Leah Avery and Zae Northrup.

H. R. Parish '95 renews his subscription to the RECORD and says : "Tell the baseball manager to be sure and get that cup."

With '04.

August F. Frey is a mechanical draughtsman located now at Pittsburg, Pa. His address is 837 Rebecca ave.

With 'o5.

Miss Harriet Moore, who entered from St. Clair in 1901, is at present a student at Wellesley College, Her address is 47 Stone Hall, Wellesley, Mass.



ABOUT THE CAMPUS.

M. A. C. still has a few advantages over Los Angeles, Cal.

This is the term for campustry. The more hours off the better.

Several of our Lansing alumni witnessed the game Saturday.

Instructor McWethy received a visit from his father last week.

Fenton '09 was called to his home in Mt. Clemens the past week.

Remember the M. A. C.-Ypsi debate on May 18 and plan to hear it.

Read the governor's proclamation concerning the San Francisco disaster.

Pres. Kenyon Butterfield of R. I. agricultural college is at M. A. C. for a few days.

The date of the military hop has been changed from the 25th to the 11th of May.

Some of our club and society reports are lacking this week. Wonder where they are,

Considerable work is being done along the Delta road in the way of planting shrubs, etc.

M. A. C. was visited by quite a snow storm on Sunday followed by a slight freeze on Sunday night.

Remember that Miss Blanche Cox of the Salvation Army speaks in chapel next Sunday morning.

W. F. Millar '04 paid college friends a visit the past week. He is still with the U. S. Lake Survey as civil engineer, located at 33 Campau building, Detroit. Newell Snyder, with '05, is spending a short time with his parents, Mr. and Mrs. N. Snyder, Collegeville.

W. E. Wilson made a very successful test Wednesday of last week on the Jackson-Battle Creek electric line.

Applications keep coming to the department of horticulture for men capable of taking charge of fruit farms.

The juniors in forestry spent Friday afternoon at Holt where they inspected the wood lot of Mr. John Bissell, of Detroit.

The Hort. Department has received 6,000 strawberry plants to be used in strawberry breeding with regard to pedigree.

Work has begun in earnest on the new mechanical building and we can now see something of the ground space it will cover.

C. A. Jewell '96, a teacher in the Grand Rapids schools, paid college friends a visit Saturday and incidentally took in the ball game.

Messrs. Dorsey and Woodbury will assist Prof. Fletcher in the work of orchard pollenization, such work to be carried on mainly in orchards within driving distance of the College.

The M. A. C. Sunday school is in a thriving condition and as both rooms in the school house are used, more people can be accommodated. Students are made welcome and are earnestly invited to attend. At the Easter exercises there were 81 present with a collection of \$3.31. A correction is made in the spelling of the firm name with whom Dean Park '98, mentioned last week, is connected. It should have read, Hammacher, Schlemmer & Co.

Brigadier Blanche Cox of the Salvation Army will speak in Chapel next Sunday morning. Miss Cox is an interesting speaker and no student should miss the opportunity of hearing her.

Mr. A. D. Felton has been engaged to work in the botanic garden this summer. The plants seem to have come through the winter in good shape notwithstanding the fact that we had so much bare ground.

The Lawton Leader recently published an article on the work of the Michigan Agricultural College, giving a sketch of the various courses, the extent of ground and something concerning the equipment.

Mr. Max Peyer of the Department of Interior, Germany, spent Saturday at M. A. C. Mr. Peyer is studying agricultural conditions in this country and expects to visit various points. He is now on his way to California.

The base ball team won from Lansing H. S. Wednesday afternoon, 5 to 0, in a 7-inning game. All three pitchers were tried out, each doing creditable work. The home team hit the ball and run bases in good shape.

The Olympic society entertained their friends at an 11 o'clock party Saturday evening. Palms and Easter lillies in abundance were distributed about the rooms, giving a very pleasing effect. Prof. and Mrs. Ryder acted as chaperons.

*

A meeting was called recently to discuss the feasibility of a church organization. A committee will be appointed to canvass the district in and about the College to determine the sentiment of the community toward such an organization.

The members of the Feronian Society were very pleasantly surprised Saturday evening. Mr. Colling wood gave a reading, "Monsieur Beaucaire," which was very much enjoyed by all. Light refreshments were also a pleasant feature of the surprise.

L. R. Goodwin, of Owosso, was a College visitor a day or two the past week. Mr. Goodwin is a student at the university, '07, and is at present on his vacation. His father, Charles Goodwin, graduated at M. A. C. with the class of '75.

The California State University seems to have escaped the wrath of the earthquake and serves as a place of refuge to many homeless people. It will be remembered that here is where Prof. Reynolds and wife (Elvine Armstrong '04) are located.

The fire whistle sounded soon after 9:00 a. m., Wednesday morning which brought the hose company (and others) to the scene of the fire which was found to be in the cook's room on the south side of Williams Hall. A quantity of gasoline had been used in the cleaning of the room which had ignited and in turn set fire to the bedding. The hose companies soon had the blaze under control. THE M. A. C. RECORD.

SOMETHING ABOUT EARTHQUAKES.

- 2

Every volcanic outburst is accompanied by one or more earthquakes; on the contrary by no means every earthquake is due to volcanic action. An earthquake is simply an earth jar and the cause may be an explosion, a landslide, a volcanic eruption or-and most commonly-the sudden slipping of one rock mass on another along the line of fracture. Earthquakes of greater or less magnitude occur daily, almost hourly, in some part of the earth. They are the results very largely of the readjustment of parts of the crust of the earth made necessary by the stresses produced by the cooling and subsequent shrinkage of the mass of the earth.

Whatever may be the constitution of the interior of the earth, whether largely liquid or merely plastic or mainly solid, the interior certainly is much hotter than the exterior and both are slowly cooling. The more rapid cooling of the exterior has produced what we speak of as the crust of the earth, a layer of greater or less thickness which is comparatively solid and unyielding. As the inner mass of the earth cools it naturally shrinks and in the attempt of the outer crust to settle down and adapt itself to this lessening interior there is a tendency for the crust to wrinkle or form ridges and these when sufficiently marked are known as mountain ranges, often spoken of collectively as mountain systems. These mountain systems are roughly parallel to the borders of the continents and in most cases have been successively formed, those nearest the coast being the most recent and those nearer the interior the oldest.

When the crust of the earth is about to wrinkle the point or line at which the bend will take place is always the weakest point in the crust. And sometimes seemingly trivial changes in weight or pressure may determine the point where such a flexure or fold will begin. We know that continent borders are regions of the earth's crust along which the most abrupt changes in level occur. The sea may be comparatively shallow for a score or a hundred miles from the shore when it suddenly dips downward, sometimes to great depths. Similarly the sea coast may be bordered by plains for some miles inland, but ordinarily the country soon rises abruptly and often into mountain ranges.

Now, just as a hoop of iron or steel retains its shape and withstands external pressure as long as the curve is uniform, every part of it being a regular arch; and just as a hoop or ring when subjected to pressure is sure to yield first at any point where there is a slight indentation or bend destroying the arch, so the almost regularly arched crust of the earth is most likely to wrinkle or yield at those places where the regular curvature is indented or has become somewhat irregular from any cause. The crust of the earth may be looked upon as holding its present curvature as a result of the equilibrium of the forces tending to elevate and depress it.

(To be Continued.)

Prof. Bogue is in Detroit today to investigate the practicability of making a permanent outdoor forestry exhibit on the state fair grounds. Dr. Dandeno has purchased the property on College Heights formerly owned by W. C. Finn. He will take possession about May 10.

A large bird dog which has been running about the campus, succeeded early last week in digging under the fence surrounding the deer park and killing the little fawn. He was in turn dispatched by Mr. Hayden who happened to be passing the park at the time.

The Union Literary Society held their annual freshman oratorical contest Saturday evening, April 14. Mr. C. J. Oviatt won first place; Mr. S. Welles, second; and Mr. Roy Vondette, third. The judges were Mr. Gunson, Prof. Babcock, and Miss Wellman.

K. B. Stevens 'o6 has a sister, Miss Barbara Stevens, in college at Leland Stanford. Percy Tallant, a student at M. A. C. for two years, has also been in attendance there. Papers state that only one of the University buildings was able to withstand the recent earthquake.

The Ruggles Family are coming ! If the trains are not delayed by an earthquake they will be at M. A. C. one night only, and that on Friday, May 4. If you want to see the original Ruggleses from Sary Jane to Larry plan to do so on May 4. Further notice will be given as to how and where—also for how much.

Prof. W. F. Durand, who was at the head of the mechanical engineering department at M. A. C. from '87 to '91, held a similar position at Leland Stanford University, Cal., which institution it is said suffered severely from the recent earth quake. Prof. Durand, previous to taking up the work in the west two years ago, was principal of the Graduate School of Marine Engineering in Cornell University.

In order to show their appreciation of the work of the studen's in the study of construction, operation and care of farm machinery, several large manufacturing companies of North Dakota are offering cash prizes to the students of the N. D. Agricultural College for the best essays on subjects related to their particular line of industry. A small folder is issued announcing the various subjects, rules governing the contest and prizes to be awarded. Prof. Jeffery was chosen as one of the judges.

The Union Literary Society gave a ten o'clock party last Saturday evening, April 21. Progressive games of every description were the order of the entertainment, the partners and tables being found by matching twigs and leaves of different kinds of trees. After a time the games were replaced by chafing dishes and the girls were provided with tiny aprons, and the necessary ingredients for making fudge. The results spoke well for the domestic science department, and were relished accordingly. A light lunch was then served and ten o'clock was announced all too soon.

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