

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 13.

LANSING, MICHIGAN, TUESDAY, APRIL 22, 1908.

No. 29.

Y. M. C. A. CONFERENCE — APRIL 24-26.

FIRST EVER HELD AT M. A. C.

The annual Student Officers' Conference of the Young Men's Christian Association of Michigan will be held this year at M. A. C. from April 24-26. The opening session will be the banquet given by the local association to the delegates in the Women's Building Friday evening at seven o'clock. This is the first time a conference or convention of this kind has been held at M. A. C., and the local association is doing everything in its power to make it a success. Men of national prominence in association work will be the speakers and all meetings including the banquet will be open to the students.

PROGRAM.

FRIDAY, P. M.

7:00 Banquet.
Speakers—Dr. T. C. Blaisdell, J. Lovell Murray, Secretary Student Volunteer Movement.
Rev. A. W. Wishart, Pastor First Baptist Church, Grand Rapids, "Social Service."
Frank V. Slack, Secretary International Committee, "The Niagara Conference and the Association Leader."

A. B. Williams, Jr., Cleveland, O.

SATURDAY, A. M.

9:00-9:15 Devotional, J. Earl Webber, Secretary Detroit College of Medicine.

9:15-9:45 Address, Rev. A. W. Wishart, "The Basis of Faith."

9:45-11:15 Frank V. Slack—"The President and his Cabinet." Opportunities, Preparations, Dangers to Avoid, Cabinet Perspective, Cabinet Unity, Personal Life and Influence, Leaders in Religious and Moral Affairs.

11:15-12:00 Address, A. B. Williams, Jr., "The Association and College Ideals."

SATURDAY AFTERNOON.

2:00-2:30 Devotional, Dr. W. P. Behan, Director Biblical Dept. Y. M. C. A. Training School, Chicago, "Leadership and the Cultivation of Personality."

2:30-3:30 J. Lovell Murray, "The Study of Missions by College Men."

3:30-4:30—1. "The Business End of the Association," Carl H. Smith, Graduate Secretary, University.

2. "Student Publications," John H. Snook, Secretary, University.

3. "How to Use the Traveling Secretary," L. E. Buell, State Secretary.

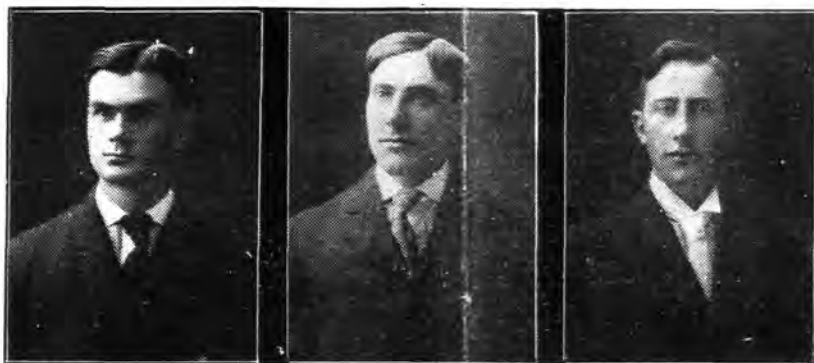
SATURDAY, P. M.

7:30-8:30 Frank V. Slack, "The Bible Study Movement in Our American Colleges."

8:30-9:30 L. E. Buell, "The Association Field and Its Opportunities for Investment of Life," illustrated by Stereopticon.

SUNDAY, A. M.

9:00-10:00 Chapel Service. Sermon by Dr. W. P. Behan, "The Supreme Mission of Jesus."



C. C. TAYLOR

H. L. KEMPSTER

O. J. OVIATT

M. A. C. Debating Team which will meet the Ypsilanti team here May 23.

11:00-12:00 Department Conferences—Missions, J. Lovell Murray. Presidents, F. V. Slack. Bible Study, W. L. Rogers. Other Officers, C. H. Smith.

SUNDAY AFTERNOON.

3:00-4:00 Platform Meeting—"The Challenge to Christian Service in the Ministry." Association Secretaryship, W. P. Behan. Mission Fields, J. L. Murray.

SUNDAY EVENING.

6:30-7:30 Union Meeting, Y. M. and Y. W. Address, J. L. Murray.

8:00-9:00 "The Winning of Men the Highest Service of the Association," Dr. W. P. Behan.

THE MINSTRELS A GREAT SUCCESS.

Nothing but praise is heard for the performance of MAC's minstrels given at the armory last Saturday evening. When the curtain rose at 8:05 every seat in the house was filled, which insured the affair as a financial success as far as the athletic association and band were concerned. As the program went on, the appreciation of the audience, expressed by the applause, clearly showed the success of the production from that standpoint.

The first part, with the end men in white, the chorus in dress suits and the orchestra in the background in red uniform, consisted of a number of solos and duets interspersed with end men jokes. Many local hits were included and the spirit of fun and good nature in which these were given and taken showed M. A. C. not lacking in true college spirit.

The second part was entitled "A Night at the Bijou," and consisted of a number of specialties. It would be very difficult to pick the favorites on the program, but probably the burlesque on Uncle Tom's Cabin with Oety as little Eva, caused as much laughter as anything on the bill. The whole performance went off without a hitch, and a great deal of credit is due to every man on the program and to all of those who assisted in making the show a success. Such things, if carried out right, all help in developing the best kind of community feeling and spirit, and we trust that M. A. C.'s minstrels will tour this section of the country again next year.

ENGINEERING SOCIETY.

Last Tuesday evening Mr. W. S. Sayer, at present connected with the bacteriological department, addressed the Engineering Society upon the subject, "Water Purification for Commercial Purposes." The process of water purification is becoming a prominent feature in railroad engineering practice, where pure water is necessary for good boiler practice. The process is divided into two classes, the removal of suspended matter and the removal of dissolved matter. The removal of suspended matter is obtained either by allowing the matter to collect as a sediment, or by adding a chemical to curdle the suspended matter and allow filtering.

Dissolved matter is found in all water, but when so extensive as to be injurious to the boiler, the removal involves a different problem for the chemist. Water may be clear, tasteless, yet troublesome to the boiler.

The principle involved is to change the soluble to insoluble. The impurities generally found in water are carbonates of lime and magnesia, which are held in solution by an excess of carbon dioxide. Any chemical that will absorb this excess of carbon dioxide will cause precipitation of these impurities. Carbonate of soda, or soda-ash, known as compounds, are used to cause the precipitation.

Notice is here given that sophomore engineers are eligible to active membership. All sophomores desiring to join the society may present their names to any member who will see that they are brought before the society.

Y. W. C. A.

Perhaps one of the most interesting meetings of the Y. W. C. A. held this year was the one led by Miss Koch last Thursday evening. She took as her bible lesson I Cor. 13, and read "The Vision of Sir Launfal," while Miss Coe played appropriate music. Miss Raynor sang a solo, and a number was given by a quartet consisting of Misses Allen, Bates, Raynor and Koch.

Prof. Taft's family will occupy the house recently vacated by Prof. Smith.

ALUMNI

In the Record office there is kept a card catalogue of all students who have ever been connected with the college. In order that this may be kept up to date, please notify us of any change of address or occupation.

W. J. WRIGHT, Editor.

'95-'96.

Walter F. Porter, engineering student during the above years, died at his home in Lansing recently, due to pneumonia brought on through exposure at a fire last winter at the livery barn of Porter & Son, of which he was a partner.

'04.

In a recent letter to friends at the college, Henry Geller, '04, tells something of his work at the Baron de Hirsch Agricultural School at Woodbine, N. J., of which he is superintendent. In the two years in which he has had charge the attendance has increased from 18 to 80 and the work of the school very much improved. He is planning for a Jewish Farm Labor exhibit this summer and expects to have some M. A. C. professors act as judges. Mr. Geller also sends the library a bound copy of his thesis written for his M. S. A. degree.

'05.

Horace Hunt, '05, is in Williamette, Conn., as resident engineer on the installation of a hydro-electric power plant on the Shetucket River. Address R. F. D. No. 2.

With '08.

L. T. Jones is now at Morenci, Mich. He is working on the *Morenci Observer* of that place.

J. V. Sheep, with '08, and wife called on college friends last week. Mr. Sheep is now in the seed business at Lincoln, Mich.

In the San Francisco *Chronicle* of April 8 we notice an article of some length on the pitching of Edward P. Pinnance, the Indian who was on the M. A. C. pitching staff in 1904, and who is now pitching for the Portland, Oregon, team in the Pacific Coast League, and is among their most popular players. In an editorial it says: "Pinnance caught on with the fans, who were with him from the jump. His gilded pitching may be judged from the fact that no runs were made off his delivery."

With '10.

Jas. A. Mumford, with '10, writing for the RECORD from State College, Pa., says: Among M. A. C. people here at "State" are Prof. and Mrs. Baker, '01, Prof. Van Norman, '97, Prof. and Mrs. Deemer, Miss Waugh, Mr. and Mrs. Norris, Mr. and Mrs. F. J. Kaufman, and Miss McDowell.

'06.

Cards are out announcing the marriage of Silas E. Champe, of the above class to Miss Frances McCrea at Battle Creek, Dec. 29, 1907. Mr. and Mrs. Champe will make their home in East Lansing.

The M. A. C. RECORD

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TUESDAY, APRIL 21, 1908

Folks who never do any more than they get paid for, never get paid for any more than they do.

—Hubbard.

SCIENCE MEETING.

At the regular meeting of the agricultural section of the Michigan Academy of Science held in the college chapel Friday afternoon Instructor P. W. Howe was elected vice-president. Dr. Marshall is president and Prof. Sackett vice-president of the Michigan Academy.

HISTORY.

The State Academy of Science was organized in June, 1894. At a meeting of the advisory board, it was unanimously agreed that it have for its principal object the study of agriculture, archeology, botany, geography, geology, mineral resources, zoology of the State of Michigan, and the diffusion of the knowledge thus gained amongst men. You observe that provision was made at the first meeting for investigations in agriculture, and at the first meeting for the presentation of papers, one paper was read by Manly Miles, M. D., entitled "Futile Experiments for the Improvement of Agriculture." At the next annual meeting A. A. Crozier spoke on "Recent Advances in Agricultural Botany," and Prof. Walter B. Barrows spoke on "Food Habits of Michigan Birds." At a field meeting of the academy held at the Michigan Agricultural College, June 13th, 1896, formal permission was given for the organization of a section of agriculture with Prof. Clinton D. Smith as chairman. The agricultural section of the academy was organized at the request of some twelve persons connected with the teaching force and experiment station of the Agricultural College, with several objects in view; one of which was to furnish opportunity to professors of the State University, colleges and normal schools to become interested and instructed in the relation of science to agriculture.

At the seventh annual meeting of the Academy held in Ann Arbor with Prof. J. A. Jeffery in the chair of the agricultural section, in the opinion of those present, an excellent program was furnished, consisting of "Some of the Relations of Botany to Agriculture," Dr. W. J. Beal; "Some New Demands

upon Agricultural Education," Kenyon L. Butterfield. Three persons were present, including the chairman and the two who read papers, and they incidentally began to cite the statement of John Hopkins and the log. It needed no argument to show that the program did not draw.

At the eighth annual meeting held in Ann Arbor, Prof. Jeffery in the chair of the agricultural section, there were four papers read; one by J. J. Ferguson, instructor in agriculture; one by a student, George Severance, a senior of the Agricultural College; one by Dr. W. J. Beal, and one by Kenyon L. Butterfield.

There was a single visitor present, C. A. Davis, then instructor in forestry at the University, who came to listen to the paper by Dr. Beal on "What Shall the Michigan Farmer Grow for Fence Posts and Telegraph Poles."

A strenuous effort was made to make the ninth annual meeting attractive to outsiders, with just a little improvement over the other meetings by way of attendance.

The officers of the academy had claimed all along that the section of sanitary science could not be successful unless the section met at Ann Arbor where the meeting would receive support from the faculty and students of the medical college. It began to dawn on some of the agriculturists, why should some ten of the members of the agricultural college faculty go to Ann Arbor with papers to read solely to their own number? To be brief, permission was granted to hold the agricultural section at the Agricultural College, thus securing more easily a better program and larger attendance, besides saving time and expense of busy men at this college. With meetings held at East Lansing the attendance has been good, though by no means equal to that of a local circus. What is a good attendance at meetings of scientific students, either local, state or national? Depending on where the meeting is held, and more or less on the advertised program, it ranges from ten, twenty, not to exceed fifty persons, except rarely when it reaches a hundred or more. Meetings of the National Academy of Science for presenting papers meet twice a year. At one session a certain mathematician, Professor Pierce, of Harvard, was prepared with a paper. When called on he glanced over those in attendance, remarked that there was only one member of the academy who could understand his paper, and as he was not present he thought it not worth while to read the paper, and it was not read.

M. A. C. WINS FIRST GAME OF SEASON.

M. A. C. opened its baseball season Monday afternoon by scoring a 5 to 0 shut out against Olivet. Neither side scored until the fourth inning when Mills drew a base on balls. He was sacrificed to second by Crissey and was scored on a wild throw by Harwood. Four more runs were added in the fifth on a hit by Baker; Ellis reached first on an error and both men scored on a two-base hit by Vaughn. He was sacrificed to third by Vance and scored on a hit by Mills, who stole second and scored on an error by Oliver.

PIANO RECITAL BY THE STUDENTS OF MUSIC.

All students and friends are cordially invited to attend a piano recital given by the students in music FRIDAY, APRIL 24, 1908, in the parlors of the Women's Building, beginning at 8:00 p. m.

PROGRAM.

Chant Sans Paroles	MISS Lyla SMITH.	<i>Tschaikowsky</i>
Heart's Sorrow	MISS RUBY LOOMIS.	<i>Lange</i>
Will o' the Wisp	MISS ERMA MULLEN.	<i>Jungmann</i>
Nocturne	MISS HELEN ESSELSTYN.	<i>Bendel</i>
Polacca Brillante in A ^b	MISS BLANCHE SMITH.	<i>Bohm</i>
Petite Mazurka	MISS BARBARA VANHEULEN.	<i>Sapellnikoff</i>
To a Water Lily	MISS GLENNA PANCOAST.	<i>MacDowell</i>
From an Indian Lodge		
INTERMISSION.		
Sonata—Op. 26		<i>Bethovene</i>
I. Air with Variations.		
II. Scherzo.		
III. Funeral March.		
IV. Rondo.	MISS EDNA HOPSON	
Oudes Sonores	MISS HAZEL PECK.	<i>Sinding</i>
Allegro		
Andante	MISS EDITH HARDING.	<i>Haydn</i>
Boys' Merry-Go-Round	MISS LOIS GARBER.	<i>Gade</i>
In Autumn	MISS MARY ALLEN.	<i>MacDowell</i>
Pierrette	MISS ZOE COLEMAN.	<i>Chaminade</i>
Gondolieri—Venezia e Napoli	MISS EDNA HOPSON.	<i>Liszt</i>

Olivet's only good chance to score came in the fifth when the bases were filled by hits by Leonard, Hurlburt and Berry, but good team work and excellent control by Peterson kept the visitors from scoring. These were the only hits secured off Peterson. Hurlburt pitched good ball for the preachers, but his support at critical times was very ragged.

The showing of the home team was very satisfactory to the student body as a whole although the new men showed some nervousness which gradually wore off as the game progressed. The fielding of the team is all that can be asked for but there is still room for improvement in the hitting department.

M. A. C.	A	B	R	H	O	A	E
Ellis C. F.	4	1	2	3	0	0	
Vaughn S. S.	3	1	2	1	1	0	
Vance 3rd	3	0	0	1	0	1	
Mills 2nd	3	2	2	0	2	0	
Crissey C.	3	0	0	7	0	0	
Vondette 1st	4	0	0	8	0	1	
Harrison L. F.	4	0	0	0	0	0	
Peterson P.	3	0	1	0	5	0	
Baker R. F.	3	1	1	1	0	0	
OLIVET	A	B	R	H	O	A	E
Berry S. S.	3	0	1	1	4	0	
Nachtshein L. F.	3	0	0	0	0	0	
Royal 2nd	3	0	0	1	1	0	
Hiller C.	2	0	0	6	0	1	
Oliver 3rd	3	0	0	1	0	3	
Harwood 1st	3	0	0	9	0	2	
Leonard C. F.	3	0	1	1	0	0	
Robinson R. F.	3	0	0	1	0	0	
Hulburt P.	2	0	1	2	5	2	

Score by innings:

	1	2	3	4	5	6	7	R	H	E
M. A. C.	0	0	0	1	4	0	0	5	8	2
Olivet	0	0	0	0	0	0	0	0	3	8

Left on bases, Olivet 1, M. A. C. 7. Two base hit Vaughn. Sacrifice hits M. A. C. 3, Olivet 1. Struck out by Hurlburt 6, by Peterson 7. Passed ball Hilliers, Umpire Obermeyer.

RECORD BROKEN FOR CROSS-COUNTRY RUN.

In the cross-country run pulled off Saturday afternoon over the official course Capt. Carr succeeded in lowering the record some 36 seconds. Twenty-two men made the

run and all finished in good form. The following are the first 10 men to finish in the order named: 1. Capt. Carr; 2. Oviatt; 3. France; 4. Tillotsen; 5. B. H. White; 6. Bushnell; 7. Collingwood; 8. Knecht; 9. F. S. Lawrence; 10. Zerbe.

'VARSITY MEET SATURDAY.

The class track managers are getting out their track material for the Annual Varsity Meet to be held next Saturday. As far as possible all track events will be pulled off each contestant contributing the points won to the total for his class. In this way the class track championship will be decided and from among the winners will be chosen the regular track squad. Several new men are showing up well in track work and it is possible that some surprises may be sprung at this meet.

FORENSIC SOCIETY ELECTS OFFICERS FOR SPRING TERM.

On last Saturday evening the Forensic Society held its second meeting the term in the newly appointed rooms, in ward F, Wells Hall.

The following officers were installed:

President—Evan S. Martin.
Vice-president—R. Morley Reynolds.
Secretary and treasurer—Amos Trout.
RECORD editor—Walter Bernstein.
Executive committee—Chairman, J. L. Graybill; Walter Postiff, Roy Lyons, Oscar Fairbanks, A. L. Hurd.

Something too good to miss—the recital given by the students in music at the Women's Building, Friday evening.

A FEW THINGS FROM
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GRANGER & CULLETT

WOODBURY'S OLD STAND

HOLLISTER BLOCK

ABOUT THE CAMPUS

Dr. J. L. Daniels of Olivet filled the pulpit at the People's church Sunday.

Most of the material for the new catalog is now in the hands of the printer. It will be ready for distribution in a few weeks.

Prof. Victor T. Wilson, of the mechanical drawing department of Pennsylvania State college called on friends at M. A. C. last week. He is a brother-in-law of Prof. Pettit.

At the meeting of the council of East Lansing last Thursday night a recount of the votes for alderman gave Mr. J. Schepers a majority of three votes over Mr. Noah Snyder.

The date of the opening of the forestry summer school has been fixed at July 6. It will be held on the college forest reservation in Alcona county at the headwaters of the Pine river.

Instructor James, who underwent an operation for appendicitis at Ann Arbor during the spring vacation, expects to leave the hospital this week and will soon be able to take up his work again.

Dr. Van Schrenk of St. Louis, Mo., Supt. of office of wood preservation of the Santa Fe R. R., will give a series of six lectures to the forestry and such engineering students as may be interested, beginning today (Tuesday). Two lectures will be given, one at 4 p. m. and one at 7 p. m., today, Wednesday and Thursday.

The Try and Trust Circle of King's Daughters will meet with Mrs. C. D. Aldrich Thursday, April 23.

Supt. E. P. Cummings of the Lansing schools spoke at the union Y. M. and Y. W. C. A. meeting Sunday evening.

Dr. Beal has recently received from E. G. Kenny, '05, a few specimens of the Venus Flytrap plant from Wilmington, N. C. They are now in the greenhouse.

There are a few copies of the "Jubilee Wolverine" left and they have been placed on sale at the book store. Anyone may obtain one at the reduced price of one dollar (\$1).

The annual athletic circus which was billed for next Saturday has been given up. The success of the minstrel show has made it unnecessary for financial purposes and the many games and track meets scheduled have made it advisable to call it off for this year.

Something out of the ordinary style of entertainments was provided by the women of the People's church at the armory Friday evening. A series of living pictures representing familiar paintings or suggesting familiar titles were shown, and with the help of lights effectively placed, provided a most agreeable source of enjoyment. Prof. King gave one of his plays for the second part of the performance.

Kierstead and Postiff will deliver trunks to Lansing depots at the end of this term. 5-12

Hort. student (*musically*) Gee whiz! don't a hot-bed feel good to a cold-frame on a winter night, though?

The forest exhibit at the Detroit state fair is being much enlarged. Six new species of 50 trees each is being added to the permanent plantation. Trees set last year under the direction of the late Prof. Bogue have made an excellent growth.

The weather permitting the military department will give an exhibition parade for General Wm. T. Gurin this afternoon at 5 o'clock. Colonels Cox, Rodgers, and Captains Dorsey, Vandercook and Durst will also be in attendance. Wednesday there will be escort to the colors and guard mount, and Thursday there will be a competitive drill. Colonel Rodgers and Captains Cox, Durst and Vandercook will act as judges.

Forestry department is installing a demonstration nursery and permanent forest plantation at the West Michigan State Fair, Grand Rapids. The permanent planting includes 29 species of both conifer and broad leaf trees. Data will be gathered from year to year on the rapidity of growth of each species. The seedlings each year from the seed beds after the fair grounds are fully stocked will be distributed to the public institutions and others desiring them at actual cost of production.

BIRD ARRIVALS.

The arrivals of birds on the campus has been noted as follows:

February 29, purple finch.
March 10, robin.
March 11, blue bird, red-winged blackbird, bronzed grackle, male.
March 12, song sparrow, killdeer, red-shouldered hawk.
March 13, Meadowlark, sparrow hawk.
March 14, cedar waxwing.
March 18, woodcock.
March 22, rusty blackbird, migrant shrike, phoebe, marsh hawk, herring gull.
March 26, mourning dove.
March 27, golden-crowned kinglet. The first migrants appeared on this date; a few kinglets remained on the campus all winter.
March 28, myrtle warbler, chickadee.

April 4, sapsucker.
April 5, flicker.
April 9, cowbird, kingfisher, field sparrow, goldfinch.
April 14, vesper sparrow, tree swallow, hermit thrush, brown thrasher, cooper's hawk.
April 15, purple martin, chipping sparrow.
April 16, winter wren.

The above dates are those on which the first individual of each species was seen. In a few cases the species doubtless was here earlier than noted. This is true certainly for the kingfisher, mourning dove and vesper sparrow.

WALTER B. BARROWS.

REFORESTATION IN THE UPPER PENINSULA OF MICHIGAN.

An Address Given by Thomas B. Wyman, Forester for the Cleveland Cliffs Iron Co., Before the Forestry Club.

(Continued from last week.)

In 1906 a small nursery was established at one of the Company's wood-chopping camps and various experimental plantations have been made, including white, Scotch and Norway pine; Norway, white and black spruce; balsam, native, Carolina and Norway poplar and black locust. The white and Norway pines and Norway spruce are the more successful plantings and for the large tract of land—clear-cut by the furnace department of our company—known as the Coalwood tract, the white and Norway pines will unquestionably be the most successful.

This tract is a light loamy sand and has borne a fair stand of hardwoods—maple, beech and birch—overtopped by some of the finest of Upper Peninsula white pine. Its soil is of just that class which will produce white pine rapidly or the more exacting and slower growing hardwoods very slowly indeed; hence it is advisable to not only shorten the period of rotation as much as possible but to produce the more valuable timber at the same time.

Plans have been drawn and practically approved for the reforestation of the entire tract, some fourteen thousand acres, and it is expected that work will be started this spring. This will make one of the largest, if not the largest, solid plantation in this country.

In addition to this solid tract the Cleveland-Cliffs Iron Co. will plant and reinforce many other smaller tracts for utility and beauty. Some immediate planting is planned for the Munising District in reforesting the hills overlooking the town from which the best of the hemlock was removed several years ago and the balance fire-killed by the burning of the slash.

WHAT IS NOW PLANNED.

There are various advocates of forestry and reforestation in the Upper Peninsula, chief of these being the Cleveland Cliffs Iron Company which hopes and plans to reforest, either naturally or artificially, such of its lands as are not suitable for agriculture.

The Calumet and Hecla Mining Company has been considering the reforesting of its cut-over lands, but at the latest report they had not completed their plans.

The Chicago and Northwestern Railroad Company is said to have withdrawn all of its lands from the market and that it will soon undertake the raising of tie-timber on its now barren acres.

On the southern slope of the divide, in Delta county, the Evergreen Nursery Company, of Sturgeon Bay, Wisconsin, has planned a number of plantations, but the details of these plantings have not yet been given out.

Various small planters have had the matter under consideration, but the dangers from fire are yet too great to tempt the small planter to action. Woodlot planting is not yet called for in the Upper Peninsula because there is still an abundance of virgin forest for firewood

purposes. This feature is bound to be one of great importance within a few years—in fact just as soon as our agricultural lands are occupied.

ULTIMATE RESULTS.

There are many reasons why the Upper Peninsula will in time be returned to forest conditions. There are all of the familiar ones, need of fuel—and this will be particularly important on account of the distance from the coal fields—building timber, wind breaks, etc., but one of the least considered reasons, while being one of the greatest importance, is the absolute necessity of maintaining our streams which today furnish magnificent, though undeveloped, waterpower.

I thoroughly believe that this peninsula will eventually be considered as the portion of the state which can, to the best advantage, be retained in forest. Good timbers are native, the soil is splendidly adapted to the raising of trees, the summers are rather shorter than is generally considered best for farming, the need of timber throughout the state will be pressing; all points which, taken together with the fact that our industries depend upon the conservation and the development of the forests, makes the adoption of practical forestry methods on a large scale nothing less than obligatory.



YOUNG LADIES

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