

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 14.

LANSING, MICHIGAN, TUESDAY, JUNE 8, 1909.

No. 35.

FACULTY LOSE TO SENIORS.

The second annual faculty-senior baseball game was fought to a finish on college field Saturday afternoon, the highbrows losing to the hopeful graduates by a score of 7 to 5.

At 3:30 Mayor Gunson pitched the first ball and the vaudeville was on with the veteran catcher, Crissey, of the varsity team as umpire. Mr. Gunson, who, by his decisions last year, gained the sobriquet "Rotten Tommy," was rejected this year by the seniors who insisted that the umpire be someone who "knows the game." Hadden, pitcher; Thacker, catcher, and Norton, short-stop, were easily the stars of the faculty team, but French at second and Anderson at first showed evidences of having had a practical knowledge of the game in their day while "Sec." Brown at third showed evidences of the secret training indulged in in preparation for the game.

With the exception of Blaisdell in right field who made one sensational catch (which the seniors claim was an accident if not an error) the outfield took no chances of having errors chalked up against them and spent their time making mathematical calculations as to where the ball would fall and then gingerly picked it up after it had spent its fury in the tall grass of the outer garden.

Hadden for the faculty pitched great ball but was poor on control. He fanned a total of eight men in the six innings but like all great pitchers was weak with the stick. Both faculty and seniors were there with the base stealing. It is worthy of notice, however, that but one stole home.

Hopingartner and Gordon for the seniors, did good work in the box, suiting their delivery to the character of the batter.

Manager Shaw used all available substitutes for the faculty but was unable to get into the game himself. By those who remembered his sensational pitching of last year, he was sorely missed. The seniors also used a variety of substitutes, no one who had played on the varsity or class teams being eligible. In all thirty men were used.

The proceeds went to the Women's Society of the East Lansing church.

Score:

Innings	1	2	3	4	5	6	R
Faculty	0	0	0	1	0	3	4
Seniors	2	0	2	0	3	1	8



Top Row—Dahlstrom, Weston, Busch, Pattison, Orr, Shanahan, Coach Brewer
Lower Row—Vance, Crissey, Baker, Capt. Mills, Harrison, Peterson, L. V. Belknap, L. H. Belknap.

THE SEASON'S BASEBALL RESULTS.

April 17—Olivet at M. A. C., 0-1.
" 20—M. A. C. at Culver, 8-3.
" 21—Notre Dame at N. D., (rain).
" 24—Michigan at M. A. C., 8-3.
" 30—Alma at M. A. C., (rain).
May 5—M. A. C. at Michigan, 3-9.
" 6—Wabash at M. A. C., (rain).
" 8—D. U. S. at M. A. C., 2-8.
" 14—Syracuse at M. A. C., (rain).
" 15—M. A. C. at Ypsilanti, (rain).
" 19—M. A. C. at Wabash, 5-4.
" 20—M. A. C. " " 10-9.
" 21—M. A. C. at St. Viators, 0-7.
" 26—De Paul at M. A. C., 5-4.
" 27— " " " 10-3.
" 29—M. A. C. at Olivet, 7-4.
" 31— " and M. A. C. at Lansing, 2-4.

COMMENCEMENT WEEK PROGRAM.

Commencement will occur this year on Tuesday, June 22d. The week's festivities will begin on Friday, June 18, which will be given up to the seniors for a picnic and sports day.

Sunday the baccalaureate sermon will be given at the armory by Isaac C. Ketter, D. D., LL. D., president of Grove City College, Pennsylvania.

Monday will be class day. The class day exercises will also be given in the armory at 10 a. m. The president's reception will be given Monday evening at 8 o'clock.

The commencement address will be given at 10:30 by Charles Sumner Howe, Ph. D., D. Sc., president of the Case School of Applied Science, Cleveland, Ohio.

The society reunions will be held Tuesday evening. Two men's and two women's societies will hold their reunions on the Friday night preceding commencement.

Instructor Cornell has accepted a position with the department of civil engineering at Cornell University.

The absence of "Prexy" and "Cap" Fuger lessened somewhat the interest in the ball game Saturday.

THE CONSERVATION OF ORES AND RELATED MINERALS.

(Extracts from an address by Andrew Carnegie at the Conference of the Governors at the White House in 1908.)

"In my opinion we should watch closely all the assets of our country, and begin both to save and to use them more wisely.

"Let us begin with iron: We must in all possible ways lessen the demands upon it, for it is with iron ore that we are least adequately provided. One of the chief uses of this metal is connected with transportation, mainly by rail. Moving 1,000 tons of heavy freight by rail requires an 80-ton locomotive and twenty-five 20-ton steel cars, (each of 40-ton capacity) or 580 tons of iron and steel, with an average of, say, ten miles of double track (with 90-pound rails), or 317 tons additional, so that including switches, frogs, fish-plates, spikes and other incidentals, the carriage requires the use of an equal weight of metal. The same freight may be moved on water by means of 100 to 250 tons of metal, so that the substitution of water-carriage for rail-carriage would reduce the consumption of iron by three-fourths to seven-eighths in this department. At the same time the consumption of coal for motive power would be reduced 50% to 75%, with a corresponding reduction in the coal required for smelting. No single step open to us today would do more to check the drain on iron and coal than the substitution of water-carriage for rail-carriage whenever practicable, and the careful adjustment of the one to the other throughout the country.

"The next great use of iron is in construction, especially of buildings and bridges. Fortunately the use of concrete, simple and reinforced, is already reducing the consumption of structural steel. The materials for cement and concrete abound in every part of the country, and while the arts of making and using them are still in their infancy, the products promise to become superior to steel and stone in strength, durability, convenience and economy of use. * * *

"A promising mode of reducing iron consumption is opening through the development of iron alloys. The making of steel was first an accident, and long a secret 'art and mystery'; it was not until after the Republic was founded that steel was recognized as an alloy of iron and carbon, and it was only within the memory of men now present that nickel, silver, zircon, tungsten and other materials were scientifically alloyed with iron to yield those protean modern steels adapted to an ever increasing range of uses. And the end is not yet; every expert knows that metal alloying is in its infancy.

"Among the most abundant materials of the earth crust are silica, alumina and certain compounds, all with more or less affinity for iron.

(Continued on page 2.)

THE ALUMNI PIN.

There have been many remarks regarding the work of the Student Council in their efforts to select an Alumni pin. Many of the students seem to think that this work could be accomplished in a very short time, and some are inclined to be rather critical in their judgment.

Perhaps these criticisms are just, but the selection of a design has been a very difficult task, involving a great deal of unlooked for work. Many designs were submitted. Pins had to be made up and sent in for approval. After much trouble and discussion a pin has been selected that the Council thinks will prove acceptable to all. It is made of exceptionally good material being heavy gold, thereby insuring neat appearance combined with good wearing qualities.

The pin is oval in shape bearing on its face the college monogram, also the words, "Alumnus" and "Founded in 1857." All Seniors and Alumni are entitled to wear this emblem and it is hoped that all will show loyalty to their Alma Mater by so doing.

The co-operative store will have charge of the disposal of the pins as it will make it much easier to handle them in this way. A large order has been sent in and they are expected daily.

The council hopes that the Alumni and Seniors will be well pleased with this selection and that they will feel it their duty as well as a privilege to wear one of these pins.

Respectfully submitted,
THE STUDENT COUNCIL,
I. D. MAC LACHLAN, Sec.

REGIMENTAL REVIEW THURSDAY.

A regimental review will be held in honor of Capt. Fuger Thursday evening. All cadets are requested to turn out in uniform but without arms.

The M. A. C. freshman track team won the annual meet with the Lansing high school Saturday by a score of 69 to 48 points.



AGRICULTURAL STUDENTS STUDYING GRADES OF BEEF

The M. A. C. RECORD

PUBLISHED EVERY TUESDAY DURING THE COLLEGE YEAR BY THE MICHIGAN STATE AGRICULTURAL COLLEGE

W. J. WRIGHT, '04, MANAGING EDITOR

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TUESDAY, JUNE 8, 1909

TWO more weeks until the end of the college year.

That day will witness the fulfillment of the ambitions of many a young man and woman who, for four or more years, have completed their daily tasks and have placed themselves under the influence of their teachers and the discipline of the college in order that they may be better men and women; better able to serve their fellow men; better able to cope with the problems of life. It has not all been smooth sailing. Many discouragements creep into every college career, and not the least of the training received is that gained from the association with fellow students and faculty. True and lasting friendships are formed at college, which will never grow cold. It is also true that petty grievances may have produced a feeling of estrangement which, if allowed to remain, may ever cloud the memory of our college days.

In an informal address to his class recently Prof. Karapetaff, of Cornell, touched upon this when he said:

"Pay your debts. Return that borrowed book, and those golf sticks and tennis racket. Also repair all damage that you have done, purposely or inadvertently.

"See other students with whom you have had some difficulty or 'contre-temps' and shake hands, and go to those you liked the least, clasp both their hands, and look into their eyes.

"Do you still begrudge your landlady the small things that she did or neglected to do? How about yourself? It is all over now. Soon will you shake off the dust of Ithaca, but before doing so tell your landlady that you are sorry about the disturbance that you made, and the broken chair that resulted, and also the small fire started by throwing lighted matches in that wastebasket, and the damage you did to the wall by driving nails to hang up pictures.

"The Faculty and the Registrar certainly did not treat you right on all occasions. What are you going to do about it? Are you going to poison the joys of coming years by carrying such reminders home with you? Settle your accounts now and for all time as far as Ithaca is concerned."

What is true at Cornell is true at M. A. C. A record for thoughtfulness, kindness, honesty and unselfishness is as great an asset as a record for good class standings.



FORESTRY STUDENTS SAWING LUMBER

THE CONSERVATION OF ORES AND RELATED MINERALS.

(Continued from page 1.)

Already the alloying of carbon with iron has revolutionized the industrial world, and of late the alloying of silicon with iron (in 'ferro-silicon' etc.) not only gives promise of yielding a superior metal but suggests the reduction of silicious ores hitherto unworkable, while aluminum has been alloyed with iron in a useful way. It is not too much to hope that research into the ultimate constitution and relation of these commoner materials with yield both better and cheaper metals than any thus far produced, and that newly discovered alloys will help to relieve the pressure on our mines of iron, copper, zinc, silver and lead.

"Now we come to coal. How shall we save that? Current uses or rather current wastes offer suggestions: The most known waste arises from imperfect combustion in furnace and firebox. The waste of 90 per cent and over of the potential energy of the fuel in power production—which however we know not yet how to avoid—is appalling in itself. * * *

"The most promising check on coal consumption is the substitution of other power. Naturalists tell us that coal is a reservoir of solar energy stored up in ages past, and that the same is partly true also of other chemically complex substances, including ores. The sun-motor still runs; its rays render the globe habitable and may yet be made to produce power through solar engines, or may be concentrated in furnaces—as in the Portuguese priest's heliophore at the St. Louis Exposition with its temperature of 6,000° F., in which a cube of iron evaporated like a snowball in a Bessemer converter. The sun helps to raise the tides, which some day will be harnessed, and still more practically it raises vapor from the sea to fall as rain, and our mill streams and rivers, which it is estimated may some day yield over 30,000,000 horse-power, or more than all now produced from fuel by all our engines combined. Dr. Pritchett is responsible for the statement that on a clear day, when well above the horizon, the sun delivers upon each acre of the earth's surface exposed to its rays the equivalent of 7,500 horse-power, working continuously. Thus, there is an abundance of power lying around us, if we only knew how to harness it. It is only within the past decade that electrical transmission has made water-power generally available for driving machinery, for smelting and for moving trains, and has at the same time created a new market for copper; yet it is a safe forecast that this method of using solar energy (for such water is the product of sun heat) will soon affect the constantly increasing drain on our coal. And just as the woods and the ores and the mineral fuels have become sources of wealth and power within our memory, so will become the running waters within a few years.

"No practical man can study our mineral supplies without seeing that they are melting away under our national growth at a geometrically increasing rate, and without realizing that unless the loss is checked his descendants must suffer; nor can he consider ways of preserving the supply without realizing the need of wider and deeper

knowledge than we now possess.

* * * So far as our mineral wealth is concerned the need of the day is prudent foresight, coupled with ceaseless research in order that new minerals may be discovered, new alloys produced, new compounds of common substances made available, new power propelling devices developed. I plead for economy, that the next generation and the next may be saved from want—but especially I urge research into the mastery-over nature, in order that two blades may be made to grow where one grew before, that the golden grain may be made to replace weedy grass, that crude rocks may be made into fine metals."

FARMER'S READING COURSES PROVE POPULAR.

Letters now being received by Prof. French go to show that interest in the revised College Extension Reading Course has been keen during the past year, and that the courses are proving popular among up-to-date farmers and farmer's wives who are keeping abreast of the times on agricultural subjects.

In all, 193 persons have read the first year's course, and 15 granges, 6 farmer's clubs, and two lodges of gleaners have read the course as a club. Certificates are given on the completion of each year's course and a diploma on the completion of the four years'.

Following is an outline of the courses by years:

COURSE FOR MEN.

First year.—Types and breeds of farm animals; first principles of soil fertility.

Second year.—Fruit culture; farm accounts.

Third year.—Feeds and feeding; milk and dairying.

Fourth year.—Farm poultry; farm management.

COURSE FOR WOMEN.

First year.—Home economics; physical nature of the child.

Second year.—The art of cooking; bacteria in the home.

Third year.—Sewing and dress-making; nursing.

Fourth year.—Domestic science; sanitation and decoration of school and home.

NOTICE.

The election for officers of the "Holcad" will be held in chapel Wednesday, June 9, 1909, between the hours of 12:15 and 4:30.

The nominations are as follows: Editor in Chief.—P. H. Piper, C. L. Rose, J. W. Chapin.

Ass't Editor.—E. C. Linderman, K. D. Van Wagenen, W. I. Miller.

Business M'gr.—A. P. Burkhardt, I. P. McLachlan, M. M. Babcock.

Ass't Business M'gr.—C. W. McKibbin, L. G. Kurtz, C. L. Brackett.

The Hesperian Society was entertained at a musicale at the home of Mr. and Mrs. C. C. Wood, of East Lansing, Saturday evening.

Rev. O. J. Price of Lansing conducted chapel exercises Sunday morning. Next Sunday will be the last Sunday chapel of the year. Rev. Ward will preach.

ALUMNI

'70.

Charles W. Garfield, president of the state forestry commission, has called a meeting of the commission at Lansing Saturday, and will give up the position then. The new public domain commission is to take over the forestry work and Mr. Garfield will probably not be a member of it, owing to its political make-up. He has been a member of the commission for ten years and is known throughout the state as one of the most enthusiastic advocates of reforestation. To him was largely due the founding of the Michigan Forestry Association—*Free Press.*

'98.

G. W. Gould of the above class graduates from the law department at the U. of M. this year. He will locate at Portland, Mich.

'02.

Ward Shedd of the above class was a college visitor last week. He is still located at Rockford, Ill.

'04.

E. A. Seeley, of the above class, now a practicing osteopath in Lansing, expects to move his family to East Lansing in the near future.

'08.

J. R. Dice has accepted a position in the agricultural department at the University of Maine.

There was a large attendance at the annual Y. W. C. A. banquet given in the Women's Building Friday evening for the purpose of raising funds to send delegates to the Geneva conference this summer. Miss Katherine Koch, of the senior class, was toastmistress, and the following toasts were given: Miss Johnson, of the junior class, toasted the senior girls; Miss Mary Allen responded for the senior girls. Mrs. Stott gave a talk on the value of the association work; Miss Porter on the college Y. W. C. A.; Miss Gertrude Smith, of the U. of M., told of the Geneva conference. Miss Maxey, the secretary of the Detroit city Y. W. C. A., spoke of the relation of the college girl to the city association. The banquet was served by the freshmen girls.

SECOND ANNUAL SUMMER SCHOOL

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ABOUT THE CAMPUS

At a recent meeting of the club boarding association Mr. Groat was elected club purchasing agent for another year.

Mrs. C. L. Wiel and children returned last Thursday to their home in Detroit, after a two-weeks' stay at the homes of Prof. and Mrs. Barrows and Mr. and Mrs. A. C. Bird.

In the last three numbers of the *Journal of Education* (Boston), appears a continued article by Prof. J. J. Myres entitled, "A Laboratory Course in Physical Geography," which is productive of much interest in educational circles.

Through an error of the editor in failing to properly read the dope sheet THE RECORD last week gave M. A. C. third place in the triangular meet with Wabash and Notre Dame. The score of points should have read Notre Dame 64, M. A. C. 38, Armour 32.

Olivet College won the M. I. A. A. field day meet held at Hillsdale last week by nearly double the points received by its closest rival, Hillsdale. The final points were as follows: Olivet 62, Hillsdale 35, Alma 18, Albion 11. Neither the Adrian nor Kalamazoo athletes put in an appearance. The relay was won by Hillsdale. Time, 3:38 3-5. New records were made in the broad jump (20 ft. 10 1/2 inches) and in the mile and two-mile, which were run in 4:39 and 10:17, respectively. Olivet won over Hillsdale, thus securing the baseball championship.

Prof. Hedrick was in Ann Arbor Saturday.

Miss Dupee is entertaining her mother from Chicago.

H. H. Harrison, '09, received a visit from his mother last week.

FOUND.—A silver locket, set with a sapphire. Owner may have same by calling at Dr. Blaisdell's residence.

Dean Gilchrist will give the commencement address at the domestic science school at the Battle Creek sanitarium next week.

At a recent meeting of the Liberal Arts Union Dean Bissell was re-elected president, as were also the faculty members of the board. The following student-board members were elected: J. W. Chapin, A. L. Campbell and I. D. McLachlen. The officers of the board of control are: Chairman, Prof. Ryder; vice, Prof. Patten; secretary, J. W. Chapin; treasurer, A. M. Brown.

Director Brewer has just received an offer from H. B. McDermitt, star center and tackle in the teams of 1904 and 1905, to help in coaching the team next fall. He will take his vacation in the fall instead of during the summer for the express purpose of helping to round the team into shape. His assistance will be especially helpful as he knows the game thoroughly and served as assistant coach at Purdue for two years. He is now with the Allis-Chalmers Co. of Milwaukee.

Commencement two weeks from today.

Prof. French will deliver the commencement address at the county normal commencement at Owosso Wednesday evening and at the high school and county normal commencement at Stanton Thursday evening.

The Misses Grace Taft and Margarete Barrows entertained about 25 unmarried members of the sub faculty at the home of Prof. and Mrs. Taft, Friday evening. The decorations were Japanese lanterns. Light refreshments were served.

The degree of D. Sc. will be conferred upon the following American professors at the Darwin centenary at Cambridge: J. Loeb, Prof. of physiology at the University of California; C. D. Walcott, secretary of the Smithsonian Institution, and E. B. Wilson, professor of zoology at Columbia University.

Last Saturday evening, the Union Literary Society held open house for some of its friends. After an informal reception the following program was rendered: Article.—Detroit, Michigan's Metropolis, J. R. Cornwell; article—Making of Statuary, A. B. Mead; music—Violin duet, K. D. Van Wagenen, W. J. Sproat; article—Auto industry in Michigan, Gail Wheeler; story—As Seen from the Seventh Hill, V. G. Branch. Mrs. Landon and Mrs. Harrison chaperoned the evening.

The alumni pins will soon be on sale at the book store.

Applications are now beginning to come in for the summer school.

Mrs. J. A. Polson is entertaining her father and mother of Milwaukee.

Instructor Chapman will enter the University of Michigan next year to take advanced work.

Lansing papers state that repair work will soon be resumed on the "college road," which was begun last fall.

Several alumni have announced their intention of being back for commencement. The regular triennial will be held next year.

The new agricultural building will not be dedicated at commencement time as previously announced. It will be ready for occupancy by next September but will probably not be formally dedicated until commencement 1910.

According to a recent faculty action candidates for admission to the four year courses of the college must present a certification of recommendation from their High School principal or superintendent. Blanks may be procured by addressing the president's office.

The Columbians and their friends enjoyed a picnic at Pine Lake, Saturday. The party left at 10:00 o'clock and returned at 9 o'clock in the evening, after a most pleasant time on the most pleasant of days. Prof. and Mrs. Ryder chaperoned the party.

ATHLETICS

WINS TWO-MILE IN WESTERN CONFERENCE MEET.

Again M. A. C. made good in fast company at the Chicago Conference Meet, Saturday, when Tillotson took first in the two-mile run thus tying Colorado for sixth place. When it is remembered that at this meet is congregated the pick of the college athletes of the middle west M. A. C.'s showing in the past two years has been a revelation to on-lookers. In all, four men were taken, Tillotson who won the two-mile, Oviatt who finished 4th out of 14 starters in the half, Knecht who qualified for and won 5th place in the quarter and Cortright who failed to qualify in the hurdles.

The two-mile was easily the sensation of the day. Stoplet for Illinois was counted as a certain winner in this event though rumors were afloat that the M. A. C. man was a wonder in the long distances. Stoplet took the lead, according to his usual custom, and finished the first mile and a quarter in easy fashion. Tillotson ran close upon his heels with an easy space-devouring stride. At the beginning of the sixth lap Tillotson jumped into the lead, but Stoplet was running at his heels. Passing the stand at the beginning of the next to the last lap, Stoplet made a futile effort to pass his rival and he gradually fell behind. Tillotson won by a margin of at least 50 yards. The following is a list of entries with points scored:

Illinois 36, Leland Stanford 28, Chicago 21, Wisconsin 12, Purdue 6, Minnesota 6, M. A. C. 5, Colorado 5, Western Reserve 4, Miami 4, Notre Dame 3, Indiana 3, Knox 1, Iowa 1, Lake Forest 0, Beloit 0, Northwestern 0.

YPSILANTI A SURPRISE IN TENNIS.

The tennis team ran up against a surprise in Ypsilanti Saturday and succeeded only in winning but half the matches, leaving the result a tie.

In doubles the normalities were especially strong, showing great impairment over last year. The results are as follows:

MEN'S DOUBLES.

Miller and Howard (Ypsi.) won over Taft and Pratt, 7-5, 4-6, 6-2.

LADIES' DOUBLES.

Miss Wilson and Miss Palmer (Ypsi.) won over Miss Taft and Miss Kedzie (M. A. C.) 1-6, 7-5, 6-4.

SINGLES.

Taft (M. A. C.) won from Harvard, 6-0, 6-4.

Miss Arner (M. A. C.) won from Miss Palmer, 4-6, 6-4, 6-4.

Miss Taft (M. A. C.) won from Miss Wilson 8-6, 6-2.

Miller (Ypsi.) won over Pratt 7-5, 8-6.

The librarian requests that all books belonging to the library be returned on or before June 16. This does not refer to books taken out by instructors for department use.

GREAT CLEARING SALE Women's and Misses' Suits

Sale Starts Wednesday, May 26th

WE place on sale in our Cloak and Suit Department our entire line of fine tailor made suits at wonderful reductions. Never have we made such a big cut in price as now. All suits that have sold at \$25.00, \$30.00, and \$35.00 will be sold at the unheard-of price **\$14.95**

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1. Remember that work is only a means; character is the end.
2. That sincerity is the foundation of all honest work.
3. That you label your own work.
4. That no one can hold you down if you are determined to succeed.
5. That every man is destined to do something worth while.
6. That most people judge you by first impression.
7. That few men succeed until they try.
8. That hard work is no small part of genius.
9. That it takes no longer to say kind words than those that cut.
10. That the only way to keep your credit good is by paying your debts.
11. That it is easier to do good work than poor, if you once learn how.
12. That the more difficult things are too accomplish, the more worth while.
13. That a wise employer is more anxious to push you ahead than to hold you down.
14. That you are one link in a great chain.
15. That ambition develops and selfishness thwarts body and mind.
16. That rules are as necessary to a business as laws are for right government.
17. That you can't learn everything in a day.
18. That the fact that you are being employed is a promise of good work.
19. That your "boss" often appreciates your work, but does not find time to tell you so.
20. That times progress and methods change.
21. That only cowards are afraid to venture.
22. That it is foolish to bear a grudge. Unkind feelings are not marketable.
23. That it pays to be neat in appearance as well as in your work.
24. That every workman pays for the amount of supervision he requires. The less watching and direction he needs the higher will be his wages.
25. That there are three classes of people in the business world: (1) Those who do a thing without being told; (2) those who do a thing when told once; (3) those who have to be told several times. —Chicago Tribune.

The last baseball game of the season is scheduled with Alma June 12.

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