

THE WEEKLY EXPONENT.

VOL. 3 BOZEMAN, MONTANA, FRIDAY, JANUARY 12, 1912 No. 16.

GRADUATE OPENS OFFICE OF OWN

W. B. FREEMAN OPENS CONSULTING OFFICE IN DENVER—ABANDONS U. S. SURVEY.

MADE GOOD WITH GOVERNMENT

Was District Engineer of U. S. Geological Survey in Charge of the Denver District of Water Resources—Made Good While at College.

Word has reached Bozeman that W. B. Freeman, '03, has opened a consulting office in Denver and has entered business for himself. Mr. Freeman was a member of the 1903 class and after graduation he took a year of post-graduate work at Cornell finishing work there in 1905. Since that time he has been in the employ of the government being first on the geological survey in the northern part



W. B. FREEMAN, '03.
A Successful Graduate of M. S. C. who recently opened a consulting office in Denver.

of the state and later he entered the reclamation service in Colorado where he has been employed for the past five years. At the time he opened his consulting office he was district engineer of the U. S. Geological Survey, in charge of the Denver district of the Water Resources branch. Having reached one of the best positions that may be held under the federal government and having secured a large amount of practical experience while in the employ of the government Mr. Freeman saw that there was a large opportunity for him in consulting work in Denver and accordingly opened an office of his own. The many Bozeman friends of Mr. Freeman expect to see him entirely successful in his new venture.

While in college Mr. Freeman was a member of the college basketball team and also of the college track team and was generally prominent in all college activities, besides showing good class work during his course. Since his graduation Mr. Freeman has always been known as one of the most loyal boosters of the college.

BOOSTERS DISCUSS FOOTBALL DANCE AND FINANCES.

At the Booster's meeting Friday morning several matters of importance were taken up, foremost among which was the discussion of ways and means to make the fact known throughout the state that M. S. C. intends to have a football team next season. A number of suggestions were offered and from these came the idea of having a football dance to raise money for the purchase of sweaters for the "A" men. It was thought that by giving this mention in the state papers, sufficient attention would be called to this matter of next year's team throughout the state.

It was announced that President Hamilton and Coach Dockstadter would give a banquet to the members of the football team in the near future, at which time the captain for next year would be elected and active work for next year's team begun. Another matter given attention was

the financial state of the society. The secretary-treasurer gave a short report which showed that all the seniors and juniors and a majority of the sophomores had paid their dues while a large proportion of the freshmen and a few of the sophomores were delinquent. These dues together with the piano rent due would place the society on the right side of the balance sheet.

After a few remarks on the attendance at the dances the meeting adjourned.

M. L. WILSON GIVES ADDRESS TO AGGIE CLUB.

The regular monthly meeting of the Agricultural Club was held last Monday. Arrangements were made to hold a joint meeting tonight with the Home Economics Club in the drill hall, refreshments to be served in the Home Science rooms.

M. L. Wilson, superintendent of dry and experiment farms in the northern part of the state gave the club a very interesting and instructive address on the development of flax, non-saccharin, sorghums, and millets as adapted to dry lands, especially in dry, hot seasons. Mr. Wilson was so absolutely frank in relating his few past failures as well as his many successes in dry farming that the club was highly pleased with his talk. He stated that six years ago he could have answered any question that the farmer would have to ask, but that today he had the "evasive answer" habit, and would get around the question if possible.

Mr. Wilson concluded his lecture by suggesting a plan for handling flax diseases in Montana and Dakota which plan will be tried out by a number of experiment stations this coming season.

After extending a vote of thanks to the speaker the club adjourned till Monday, February 5.

STOCK JUDGING TEAM WINS PRIZE FOR M. S. C.

\$250 Scholarship given by J. Ogden Armour For Best American College in Judging Hogs Won by Team. To Be Awarded by Faculty.

Advices received in Bozeman the past week indicate that the recent work of the stock-judging team was not without its tangible results. A scholarship of \$250 has been placed at the disposal of this school as a result of the high standing made by the team in the judging of hogs.

Mr. J. Ogden Armour, of Chicago, gives five such scholarships to the teams from American colleges that rank highest in the judging of cattle, sheep, swine, horses and in all-round judging. Each of these amounts to \$250 and is payable in ten monthly installments to some worthy student in agriculture. Montana is entitled to this prize as her team beat all the American teams and was second only by a margin of five points in judging hogs.

Of the other four scholarships awarded, Missouri gets three and Iowa one, so that the record of the team in securing this is highly creditable.

Nothing more definite than the above can be given concerning this award as the exact conditions governing it are not positively known. It is probable, however, that the award will be made by the agricultural faculty or that of the department of animal husbandry, and to some student in either of these departments.



ARCHIE S. BROWN, '10.
Recently Secured a Good Position With the Government at the Bremerton Navy Yards.

CONSIDER EMBLEM GRADES DISCUSSED

SENATE DISCUSSES WEARING OF INSIGNIA RESEMBLING THAT AWARDED BY COLLEGE.

WINNER ONLY TO WEAR LETTER

Others May not Wear Anything That May Be Mistaken for an Award Made by College—Committee Will Make Proclamation.

A short meeting of the Student Senate was held Friday, at which time the principal business discussed was in regard to the wearing of the college monogram by students attending the college. As stated in these columns some time ago several short course students have been seen wearing the letters M. S. C. on their sweaters and while it seemed as though they did not do this with any intention of making it appear as though they had won a letter in some form of college activity, yet they created a wrong impression in the minds of those not intimately acquainted with the college. In order to preserve the value placed upon the college letter by those who bear the distinction of having earned a letter by hard work on the football field, track, or basketball floor, it was decided that no student should wear any emblem which might be mistaken for the one granted by the college. A committee consisting of Chas. H. Draper, Lewis L. Hill and Homer Millegan was appointed to see that the short course students and all others not entitled to wear emblems be informed of the action of the Senate in this regard and at the same time the committee was instructed to draw up a proclamation as to just what the emblem means and what can be worn and what cannot be worn.

It had been understood by several persons that the tournament committee was not going to have basketball programs this year. As these are highly valued as souvenirs by those attending the meet, the Senate went on record as being in favor of having programs published and the president and secretary of the Senate were instructed to notify the tournament committee of their action.

BASKET BALL SEASON OPENS TOMORROW

FIRST GAME WILL BE PLAYED TOMORROW NIGHT WITH THE HELENA INDEPENDENT AT THE COLLEGE DRILL HALL—THE TEAM WILL BE GIVEN ITS FIRST TRYOUT.

HARD SCHEDULE OF GAMES PROMISED TEAM THIS SEASON

Though Season Was Late in Beginning Calendar for Games Will Probably be Filled in Coming Week—Two Games Will be Played With 'Varsity, Two with Mines and Several With Other Teams—Class Games Will be Played Soon.

The basketball season for the year 1912 will be opened tomorrow night. The contest will be with the Helena Independents who are reported to be a strong and speedy aggregation and the game ought to be full of interest as it will show what the M. S. C. team is made of. Later on in the season the college team will play two games with the University of Montana the first of which will be on Feb. 3 at Missoula and the second will be played off at the college drill hall on the 23rd of the same month. Two games will also be played with the Mines but at the present writing the dates for these two games have not been decided upon. Polson offered the college team any dates that the college wished to take. The manager stated that the M. S. C. team would probably play them on the trip to the 'Varsity and also a game will probably be played here on Jan. 19. Here the college will meet Louis Pool, one of the basketball stars of other days at this institution. The Polson team is said to be a strong one. The games that were to be played with the Centerville Athletic club will probably be called off but with the other games mentioned above, the schedule for the season will be a fairly busy one. Manager Hill states that all of the

PROF. W. D. TALLMAN, AFTER LONG STUDY PREPARES NEW PLAN FOR GRADING.

Students Must Secure Average of C for Graduation—Will Eliminate Poor Students in First Two Years.

Throughout a man's school and college course he is rated by the grade he receives in his work. The systems adopted by different institutions are apparently very diverse but are in reality very homogeneous. For instance grades A, B, C, D, E, and F are supposed to correspond respectively to the following percentages: When a man receives a grade of A, he is assumed to know from 90 to 100 per cent of the work offered in the course in which he receives such grade. A grade of B indicates that he knows from 80 to 90 per cent; a grade of C from 70 to 80 per cent; of D from 60 to 70 per cent; of E from 50 to 60 per cent, and a grade of F from 40 to 50 per cent. We specify that a person must get a grade of D or better in order to pass, but he is allowed to raise his grade of E by an extra examination if he is capable. The grades at the University of Wisconsin are excellent corresponding to percentages from 93 to 100; good to percentages from 85 to 92; fair to from 71 to 84; poor to from 70 to 76; conditioned to from 60 to 69, and "funkt" to from 50 to 59. In the Gallatin county high school the passing grade is 80 per cent. At Harvard University it is 50 per cent, and at Guelph, Ont., it is 33.

From these statements as to percentages we might assume that the standards of scholarship at the Gallatin county high school are considerably higher than those at the college and very much higher than those at Guelph. This conclusion would in all probability be incorrect. The fact the passing grade is 80 per cent, or 50 per cent indicates practically nothing as to the amount of work or quality required for passing. When the

(Continued on page 4.)

the team have worked faithfully and have shown good spirit and the coach is optimistic as to the sort of game they will be able to put up.

The class series of games will also be played off in a short time and several of the games will be made to fit into the dates left open on the regular schedule. It is announced that championship will not be settled by the elimination process this year as it was last year but each team will play all the other teams in the race for the championship. It has not been decided whether to eliminate the first team men from the series or not although the coach has recommended that this be done.

The girls of the college have also been practicing regularly since before the holidays and Manager Higbie reports that the inter-class series between the girls' teams will be played in the near future. A great deal of interest has been shown in every line of basketball this year and the girls' and boys' interclass series should prove to be of great interest as several strong teams will be out on the floor anxious to capture the championship.

Other lines of athletics have not been neglected and a large number of persons were out last Monday to take part in the first classes in wrestling and boxing since the holidays. Noah Kirby, a member of the freshman class, has charge of the class in wrestling and is ready to meet all interested in that art on the mat at the drill hall. Track men also made their first appearance since the holidays at the drill hall, when quite a few aspirants for track honors reported for a light workout. Practice in starting was the principle work taken up and the new mat was used with great success.

Activity in the various forms of college athletics seems to be everywhere present and while the basketball season is starting rather later than usual, the prospects of a good season are very bright at the present writing.

LECTURE ON SCIENCE TO BE GIVEN SOON

Radium, Liquid Air, and Wireless to Be Subject of Lecture. Demonstrations Will Make Evening Interesting to all.

Oliver Wendell Holmes once asked a scientific friend how soon it would be possible for him to "buy a pint of horse power at the corner grocery." This conceit of the genial philosopher does not seem such a mirage when we reflect upon the new revelation in physical science—Radium—the enormous energy and nearly everlasting potentiality that are stored in so small a space. If the energy that Radium is calculated to exert in 100,000 years could be concentrated in a few days, an ounce of radium would drive a 50-horse-power motor car around the world at thirty miles per hour; or a gramme (less than one thirtieth of an ounce) would raise 500 tons a mile high. Charles Allen Nunn, editor of the Scientific American, says "Radium is destined to disturb the equilibrium of our leaders of science and shake our whole system of chemical physics to its very foundation."

Prof. Patty brings apparatus and several tubes of this remarkable mineral to show our people January 20th at the opera house and will provide an evening of experimentation long to be remembered; he will also demonstrate the wonders of liquid air and wireless telegraphy the same evening. Special rates to this lecture can be secured by seeing Higbie or Vestal before Jan. 15.



E. M. ELLIS, '11.
An M. S. C. graduate now employed by the General Electric Co.

NEW PLAN MADE TO STOP CUTS

WILL BE INAUGURATED AT BEGINNING OF NEXT SEMESTER IF ADOPTED.

SPECIAL EXAMINATIONS GIVEN

All Who Exceed Limit by Cutting Over ten per cent of Classes in Any Subject Will be Examined and Charged a Special Fee of Two Dollars.

All students who are absent from ten per cent of their classes in any of their subjects will be required to take special examinations at the end of the semester. This new plan of dealing with the absences of students from recitations and other required exercises such as shops, laboratory and drawing was discussed at the last class officers' meeting. Final action was postponed for two weeks. The proposed rules will go into effect at the beginning of the second semester, if adopted.

Students absent or tardy are now required to present a reasonable excuse to the teacher at the first appearance in such class after the absence or tardiness has occurred. The teacher is the judge of the sufficiency of the excuse. Three unexcused absences from a class during any one semester immediately suspends a student and reinstatement is had only by vote of the class officers' committee.

The substitute plan provides that a student absent more than ten per cent of the recitations or other required exercises of a study during any semester shall be required to take a supplementary examination covering the entire semester's work in that subject and a fee of two dollars will be charged for each supplementary examination. No excuse will be required but a student may be disciplined for any absence. So far as the supplementary examination is concerned, absence on account of sickness, work or leave of absence from town count equally with intentional cuts.

The plan now in use emphasizes attendance. The proposed scheme places the emphasis upon satisfactory work and under it any student will be subject to discipline for one cut if work is not satisfactory. The new plan will allow two absences in one credit course, three in two credit courses, five in three credit courses and seven in four credit courses during any one semester without the penalty of an extra examination.

FRESHMEN LEADER YELL DEEM NECESSARY.

John Fiske was elected manager of the freshman basketball team and the captain of the team is to be chosen by the team. A committee was appointed to make rules to govern the awarding of numeral to members of the class, who take part in different class contests. Lyndall Davidson, Mark Pickler and Carl Morgan were appointed to look into this matter.

The financial condition of the class was discussed at much length and it was finally decided to appoint a committee to round up the delinquents and post their names if the dues were not paid in two weeks. Bryan Davis, Will Ross, and Alonzo Burkett were appointed to look after the dues imposed in October and Tom Herrin, Albert Anderson and Frank Gray to look after the dues for the entertainment after the Freshman-Sophomore debate.

A yell leader was deemed necessary and after many nominations Floyd Crittenden was elected to this position.

It has been reported that Court Sheriff, captain of last year's football squad was loser by \$25,000 as the result of a fire at Canyon Ferry last week which destroyed a hotel and store owned by him. No insurance was carried and a lack of a good water supply only added to the difficulty of fighting the fire which was supposed to have been caused by an overheated stove in one of the upper rooms. "Cap" Sheriff was sick at the time and had to be carried out of his rooms on a cot.

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STAFF

Editor-in-Chief...Chas. H. Draper, '12
Business Mgr...Chas. L. Hansen, '12
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..... Lyndall Davidson, '15

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The Weekly Exponent is strictly a student enterprise. Its chief purpose is to present to its readers each week an accurate and complete record of the developments in college affairs during that period and it is intended that its influence shall be exerted for the upbuilding of M. S. C. The paper is the result of voluntary effort put forth by the students who compose the staff.

CALENDAR.

Saturday, Jan. 13.—Basket-ball, Helena Independents vs. M. S. C. Drill Hall.
Saturday, Jan. 13.—Lecture by Dr. Reynolds. High School.
Friday, Jan. 19.—Basket-ball. Polson vs. M. S. C.
Saturday, Jan. 20.—Lecture by Prof. William B. Patty. Opera House. "Liquid Air Radium, and Wireless Telegraphy."
Saturday, Jan. 20.—Lecture by Dr. Reynolds. High School.
Monday, Jan. 22.—Examinations begin.
Thursday, Jan. 25.—Declamatory contest.
Friday, Jan. 26.—Stag Banquet; Deer Party.
Saturday, Jan. 27.—Lecture by Dr. Reynolds.
Tuesday, Jan. 30.—Registration for Second Semester.
Friday, Feb. 9.—Bouffon's Dance. Elks' Hall.
Monday, Feb. 12.—Lincoln's Birthday. Legal Holiday.
Wednesday, Feb. 21.—Football Dance. Drill Hall.
Thursday, Feb. 22.—Washington's Birthday. Legal Holiday.
Feb. 23.—First annual debate of U. of M. vs. M. S. C. at Missoula.
Saturday, March 2.—Lecture by Dr. Reynolds.
Thursday—Saturday, March 7—9.—Basketball tournament.

ELIMINATION OF "CUTS."

When is a cut not desirable to the prospective cutter, is a question which has been answered by the class officers' committee of the faculty with the statement that the prospect of an extra examination is enough to cause at least a reconsideration.

In another column of this issue of the Exponent occurs a statement on the new plan regarding absences which will probably be tried out next semester. It is expected that there will be a change in the attitude of students towards unnecessary absences in the future, since a real punishment will fall upon shoulders of the one who gets more than ten per cent of his classes marked against him.

Isn't it queer that in the present organization of human society man has to be compelled to do that which is good for him and his associates? That is what has led to the rules which govern students here. It has always proven out that the student was willing to pay out a lot of money, use a lot of time, work hard to provide the necessary funds, and make numerous sacrifices in order to go to college. Then watch the same student embrace an opportunity to cut a class when it will not bring any disciplinary measures on his head.

Well, this is to be changed. Ten per cent of all the meetings of the class in a given subject in one semester is to be the limit. Exceed that limit and watch the descending wrath of the instructor. Past experience has proven that these instructors have their command a variety of means for making a special examination severe enough to daunt the courage of even the inevitable "A" man.

The only comment that the Exponent cares to make is a reluctant admission that the new step places the responsibility where it belongs. The students are paying big for the privilege of attending classes and it is

their privilege and duty to profit by these classes. The prediction is here ventured that in the roll of students who take special examinations next spring, the staff of this paper will appear in its entirety. All of which may or may not be an argument for the adoption of the new plan.

GETTING A GOOD START.

That the committee in charge of the tournament for this year realizes the magnitude of their task and the importance of performing it well is indicated by the early activity of that committee in laying plans for the big event. The fact is the tournament was so thoroughly well done last year that it requires some application to equal or excel it.

But no steps are being overlooked by the men in charge, and commendable progress has been made towards duplicating or improving the tournament of a year ago. The outline of the program is completed, the organization of the sub-committees under the direction of the main one has been accomplished, the high schools have been properly notified and their interest stimulated, and the local people have at the same time been aroused to their responsibility.

Attention is called at this time to these preparations, not with any idea of criticising those in charge, nor of over-commending their work to the extent of inducing a sense of false security, but for the purpose merely of emphasizing the fact that there is work of that kind to be done, and that it is being attended to.

SOPHOMORES PLANNING TO GIVE SHOW FOR ANNUAL.

A well attended meeting of the Sophomore class was held Friday at which time several matters of minor importance were discussed. A committee consisting of W. B. Vestal, Willard E. Atkins and F. L. Dissley was appointed to make plans for giving a play with which to raise money for next year's annual. A skating party was also discussed and it was decided to have this event on Jan. 29 the day before registration. The rules by which class emblems are awarded being in need of revision, the following committee was appointed to make a change in the rules: Harry F. Deitz, Horace S. Davis and Homer Millegan.

GRADUATES OF M. S. C. STATE THEIR OPINIONS

Answers Secured from M. S. C. Men Stating Their Opinions in Regard to the Value of Technical Training.

This article is a continuation of the one begun on the same subject in the last issue of the Exponent. Two letters are here printed showing how M. S. C. graduates feel in regard to the time spent in college securing an education.

ARCHIE S. BROWN, B. S., '10, ELECTRICAL DRAUGHTSMAN.

Puget Sound Navy Yard, Bremerton, Wash.

Editor Exponent;—

After deliberating some little time on the matter I have decided that about the best I can give on this subject will be a little from my own personal experience and observation, in the last year and a half since I graduated.

I am very glad that this article has come up for discussion at this time instead of a month or so ago, because at that time and many times during the later part of my service with the Seattle Electric Co., I would almost have sold my whole college education for a few years' experience. The main reason was that the S. E. Co. hires and promotes almost all of its employees by the seniority system, which means that you start in at the very bottom and only advance according to the length of your service with them. In this way there were men ahead of me who had scarcely finished common school work, and I could see no way of advancing above them. Probably for this reason and also for the reason that the company pays very poorly, there are scarcely any technical graduates in the employ of the Seattle Electric Company, outside of the men higher up, such as the chiefs of departments. And the S. E. Co. is quite a large concern, supplying power for lighting a large portion of the city and operating the street railway system.

At present, however I have a Civil Service appointment at the Puget Sound Navy Yard and here things are entirely different and caused me to change my opinion quite a little. There are about fifty draughtsmen and estimators in the office and almost without exception those holding permanent appointments are technically educated men.

A system is in vogue here, so that when there is a shortage of men in the office or during rush periods, men are brought in from the shops and are given a temporary appointment. Later an examination is held for the permanent appointment and almost always these shop men, practical men only, have failed to obtain the permanent appointment, while men, technically educated, younger in years and experience have taken the place. Whenever someone obtains the permanent appointment the one holding the temporary position must go back to the shop.

A position of the kind was offered in examination a short time ago for electrical expert aid. There were four who took the examination, the temporary appointee, a practical man, with a partial correspondence school education, another man with several years' experience on construction and station operation, a graduate of Oregon Agricultural College and myself. According to semi-official reports of the examination the two practical men made the poorest grades, while the O. A. C. man and myself were very much higher.

Another example of the advantage of technical training is, in some work detailed to the wireless man, who has been an electrical machinist and is very well acquainted with electrical work and also is pretty well up on the technical end. However he has been given the task of designing a 250 and a 350 foot steel tower for wireless work and is practically up against it. He never had any calculus or mechanics and for every point on the design, has to go to some technically trained man to have it explained, thus taking about three times as long to do the work. The last tower he designed was very poorly done and blew down. However he knows the practical side of wireless work and does very well otherwise.

So taking it all in all I have come to believe that a technical education is a very good thing indeed, but we must have practical knowledge as well and that having the technical it is easier to obtain the practical than vice versa. But, I also believe that a man at school gets a great many misleading ideas concerning the salary and position he will obtain on leaving and that it takes sometime for it to dawn on him that there are not a whole lot of \$5,000 jobs awaiting him, and that he must work and study harder than ever to get ahead. Because of these ideas it seems to me that the engineering profession is quite a little overcrowded and it goes without saying that there fewer and fewer openings the higher up you get and these will be filled by the very best. These best will be those who have by experience obtained a good practical knowledge and are backed by a good technical education that is not merely a diploma but one which means knowledge and ability to reason, obtained by hard study and the very best of effort.

ARCHIE S. BROWN, '10.

E. M. ELLIS, '11, GENERAL ELECTRIC CO.

Dec. 27, 1911.

Mr. Selmer Solberg,
Bozeman, Mont.

Dear Sir:

Your letter asking for my opinion on the subject of Technical Education, was received yesterday and although I have never given the subject much thought, I'll try to tell you a few facts I have picked up here while in the employment of the G. E. Co.

First of all I noticed that a man with a technical education is constantly in demand, especially by such large firms as the G. E. Westinghouse Co. to say nothing of the similar occupations offered to graduates of engineering courses by large firms.

At a lecture here by the noted Dr. C. P. Steinmetz, the one thing I remember most clearly was that he said, "The men of today are specializing too much in ONE branch of an engineering course." For instance in electrical engineering the men are paying too much attention to one branch, such as illuminating engineering, railway engineering, etc. During the same lecture Mr. Fish, the manager of the Lynn works said that he found the college graduate of today was very efficient in his particular branch but that he was often a very poor business man. For instance he

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said one man wrote a letter to him, a strictly business letter, that took four pages to say what he should have said in at least half a page. Furthermore, he added, that the average college man with a technical education and a fairly good business education was the best all around man for any possible position in their line—meaning the Gen. Electric Co.

No doubt this is an age of specialists but as Dr. Steinmetz says, no man should narrow himself to specialize in one branch to the exclusion of all others, because if he does it will only be a question of time until he is far behind the procession, but if he can "specialize" and still keep himself in touch with outside subjects he will no doubt become one of the authorities in his line.

In conclusion I wish to state that if I had a chance to go all over from the beginning on my education; would select nothing more nor less than a technical education, because there are always openings and a good chance to get ahead for a man with such an education.

Furthermore, in regard to old M. S. C. I wish to state that the graduates from there stand just as good a chance of a position as any other man, no matter from what college.

Even the noted Boston Technicians are turned down here at the G. E. Co., and men from colleges all over the country stand the same chance as Cornell, Lehigh or Harvard. So you see M. S. C. has some standard at least. And never knew of a case when one of her men had been turned down, especially a technical graduate.

This may not be much nor what you wanted, but without any more thought on the subject it will have to do for my opinion of technical education.

Yours truly,
EDW. M. ELLIS.

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Spaulding goods are the best

Our college pennants are as good as you can buy—at a little less money than others.

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When I tell you that we are giving the very best possible value for your money. An Extra pair of trousers of same goods as suits with every order. Can you beat it?

H. R. HARRIS

The Suit Man

College Notes

Gene Quaw, '11, returned Saturday from New York and reports a very pleasant vacation.

A three credit course in business correspondence will be opened next semester in conjunction with the secretarial course.

Miss Hazel Hill returned to college Tuesday from her home at Missoula. Miss Hill reports extremely cold weather in the 'Varsity city during vacation.

J. Glen Luther, '12, has not yet returned to college from his home at Choteau. Many rumors as to why he has not returned have been afloat but as yet none of them have been verified.

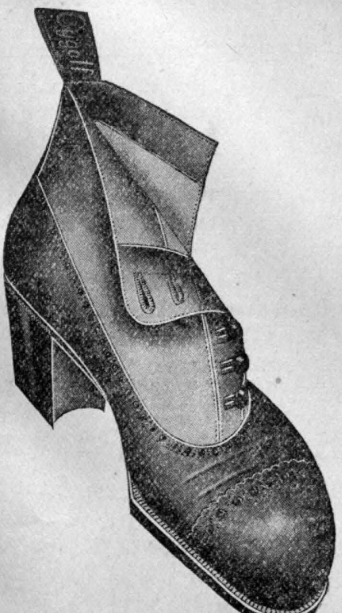
Lyle Tintinger, of the '15 class will not return to the college. Mr. Tintinger is now employed in Billings with the Todd Shoe Co. His many friends regret to hear that he will not be back to M. S. C.

Vie Vallean returned to her college duties Saturday after spending a very pleasant vacation at her home in Livingston. Miss Vallean has been devoting a great deal of her time to preparing drawings for the 1913 Montana, which the junior class is now working upon.

Today M. Herrick Spaulding, assistant professor of zoology at the college, will address the students of the Gallatin County high school and R. A. Cooley, professor of zoology and entomology at the college will deliver one of his interesting lectures before the Park county high school.

Despite the cold weather last Friday night a fairly good number of loyal Boosters turned out for the first dance given by the club since the vacation. Refreshments were served, good music was furnished and despite the poor attendance, all who were present report a good time. The next dance to be given by this organization will be the Boosters football dance, which will be given on Wednesday, February 21, at the drill hall for the purpose of raising money with which to buy football sweaters for the men who won their letters last fall.

Heavy Tans



Are just the thing for winter wear. They keep the feet warm and dry and they do not soil as easily as black shoes.

TAN SHOE (Illustrated) Russia Calif. Heavy Sole, at \$4.00. Let us do your repairing.

NICHOLSON'S
...SHOE STORE...

We have contracted with the well-known Brazier's candy and will have it in a few days.

Gleason's Cigar Store

Frank McGuire, editor of the 1913 Montana returned to the city Saturday to take up the work of preparing the annual.

Today Supt. John Deitrich of the Helena schools speaks at Assembly. Everybody is expected to attend unless excused by Pres. Hamilton.

Prof. Bishop and McNeeley of the college music faculty, and Mrs. Herrick, gave a much enjoyed program for the Woman's Club on Saturday.

Since the beginning of the secretarial course several new magazines have been added to the college library, among the latest of which is "System."

The Athletic Executive Committee of M. S. C. met yesterday in Prof. Tallman's room to sanction the date for the game with the Helena Independents for tomorrow night.

George Roosevelt returned Monday from his home in Ackley, Iowa, where he spent the vacation with his folks. Mr. Roosevelt left college a few days before the beginning of the regular vacation because of the length of the trip necessary for him to make before reaching home.

Wednesday night the college quint met that of the Gallatin High on the drill hall floor and the result was one of the poorest games ever witnessed at the college. The score was in favor of the college but for some reason nobody seemed to know just how much in its favor.

Jerome G. Locke, '08, U. S. Surveyor General for the State of Montana was in the city Saturday. Mr. Locke, a graduate of the college from C. E. Department, stated that over six million acres of land would be thrown open for settlement in Montana in the near future.

R. B. Williams, '11 was visiting in the city during the holidays and left on Saturday to take up reclamation work for the government at St. Ignace. Mr. Williams graduated from the C. E. department of the college last spring and since that time has been employed at the Hebgen dam.

Pres. Hamilton has been making an investigation of Rugby football as played in the California colleges and those of Canada and England. He expects to make a report on his investigations in the near future and will make it the subject of a short talk at the football banquet which is to be given the squad.

The basketball tournament bulletin has been completed and will be ready distribution within the next few days. Full details in regard to the choosing of teams and such other things as will be of interest to the high schools of the state may be found in this bulletin and it will be distributed to the high schools and students of the state.

Prof. H. F. Patterson leaves today for Houston, Texas, where he has consented to give two lectures before the Northern Settlers convention which will be held at that city on Jan. 18 and 19. One of the lectures will be on "Farmer's Education" and the other will be on "The Conservation of the Soil." On his trip, Mr. Patterson will visit the agricultural colleges and experiment stations of Nebraska, New Mexico, Kansas, Utah, Oklahoma, and Texas.

M. L. Wilson, superintendent of the dry farms in the northern part of the state, recently addressed several of the classes in agronomy at the college, on subjects dealing with his work.

Work has been progressing during the last week on the Missoula debate and by the end of next week the two men who will meet the University in February will be picked. The squad has been reduced by the resignation of John Farrell who was obliged to give up this interest because of his school work.

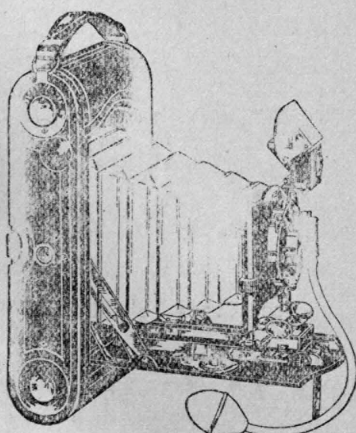
Tuesday night, Delta Chi, held a regular meeting at which time the principal business discussed was the securing of a house for the members of the organization for next fall. Several houses were discussed but no definite action was taken. A pin committee was also instructed to order pins for the members of the organization as soon as possible.

The faculty athletic committee, consisting of Profs. Kneale Schermerhorn and Swingle met Thursday with Coach Dockstadter to try and arrange the basketball schedule for the coming season. All of the dates could not be definitely settled upon but the basketball enthusiasts are promised a full schedule and a hard one before the season is over.

A fairly good audience was entertained by Dr. Geo. F. Reynolds of the University, at the local high school auditorium last Saturday evening. This was the first of a series of lectures to be given by the University professor on "The Art of the Drama." Dr. Reynolds gave a reading of Suderman's play "Magda" as a basis upon which the other lectures are to be based. The next lecture is scheduled for tomorrow night.

Columbia, Missouri, — Not content with grabbing a lion's share of the academic honors for the last few years, or with their many and great social successes, Missouri university's co-eds are going to come forward and show they know a thing or two about taking care of babies. A group of them who attend the First Methodist church here will conduct a Sunday morning nursery in the pastor's study while the mothers of the infants entrusted to their care are attending divine services.

KODAKS



We will be pleased to show you anything in the Eastman line.

Gallatin Drug Co

Miss Clara Kremer, who is teaching primary work at Moab, Utah, is seriously ill in Salt Lake.

William S. Bole, '06, of Great Falls, has been appointed county health officer and county physician of Cascade county. After graduating from M. S. C. in 1906 Mr. Bole completed the medical course at John Hopkins University and has since been practicing in Great Falls.

Miss Margaret Edwards, '12, had a severe hemorrhage of the nose Monday night and for awhile it appeared as though it would result seriously but at the latest reports Miss Edwards was getting along very well and with rest and quiet will probably be around again in a few days. It was four hours before the hemorrhage could be stopped and the loss of blood was so great that Miss Edwards was in a faint for a part of the time.

That expenditures amounting to more than \$1,000,000 in rearranging and remodeling the University of Washington campus, according to the plans of Olmstead Brothers, landscape gardeners of New York City, will be made, was the opinion expressed by Consulting Engineer Professor E. O. Eastwood, professor of mechanical engineering at the university. Half a million will be spent in building an administration hall, to be centrally located, in front of the present Auditorium, and the remaining sum will be used in re-establishing boulevard grades, building new paths and in landscape gardening proper. Work may be begun next year.

CHEMISTRY FORCE INCREASED BY ARRIVAL OF EDELHOFF.

The force of the chemistry department has been further augmented by the arrival of R. E. Edelhoff, of Hoboken, N. J., Wednesday. Mr. Edelhoff will assist in the laboratory of the experiment station. He is a graduate of the Stevens' Institute, where the larger part of his preliminary work was done under Professor Stillman. He has also done work at universities abroad, and was with the Trident cement company immediately before coming to Bozeman. Mr. Edelhoff will take up the problem of incubation as his first work here.

Chemist Burke is expecting another assistant also. G. E. Smith, of Guelph Ontario has accepted a position in the experiment station laboratory and will arrive here about March 1st. Mr. Smith is a graduate of Guelph University and has been in the employ of the University as an assistant in chemistry. He has also had experience abroad, spending much time at Birmingham, England. The special line of work that he will take up will be in nutrition.

PLANS ARE UNDER WAY FOR ANNUAL FOOTBALL BANQUET.

Arrangements are under way for the annual football banquet which is to be given to the football men who won their letters last fall along with those who have won them in previous seasons. Coach Dockstadter and Pres. Hamilton are to give the banquet but owing to the large amount of work going on at the present time in the Home Science department, the feed cannot be given there until after the semester examinations. However the coach stated that if the boys preferred to have the banquet arranged sooner, it could be held at the Bozeman Hotel. Either plan is favorable to the coach and President Hamilton and now it only remains for the boys to state their desires.

You'd be surprised to see the number

Of suits I am selling at \$25.00. You know the big advantage is you can select your cloth from a wide range of wools, then you can have it made in any style you wish. You will find it much more satisfactory than buying a ready-made.

I make suits for as little as \$20.00, and as high as you will care to go.

BILL The Nifty TAILOR

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the Queen of Fall Flowers is now in season. The first blooms can be had at

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Visitors Always Welcome

Both Phones

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Start in the New Year right by getting your barbering done with us. We make special inducements with students. Six chairs. Five baths and expert boot black.

28 W. Main

Tuxedo Billiard Parlor

Cigars, Tobacco, Cigarettes
AN UP-TO-DATE LINE OF PIPES

Michigan Block

C. C. Slutter, Prop.

Oh You Chicken Fancier

Just to remind you that we sell everything in Poultry supplies right. Oyster Shell, \$2.50 per 100 lbs. Granite Grit, \$2.50 per 100 lbs. Beef Scraps, Crushed Bone, etc. Try our cut clover for a green feed.

Owenhouse Hardware Co.

Ask to see our community silver.

G/B

A La Spirite CORSETS

Have an excellent reputation for absolute satisfaction. We guarantee them to give perfect satisfaction.

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SPECIALTY STORE

Go to M. S. C

For Knowledge

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Oxford Cafeteria

Real Good Things to Eat
L. A. Griffith, Prop.

Commercial National Bank

Capital Stock..... \$150,000.00.
Surplus and Profits \$250,000.00.

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Bozeman, Montana.

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will love you more if you get her a box of

"Bungalow CANDY"

Try the Medicine

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Exclusive Shoe Store

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Diseases of the Eye. Refraction.
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ON TIME if CALLED on TIME.

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Economy

Boys we want to interest you in our Suit Sale:—\$22.50 and \$25.00 Suits for \$16.85 and \$18.00 and \$20.00 Suits for \$13.85. A new bunch of Walk-over Shoes just received.

THE HUB

Ed. and Lou. Howard

Bozeman

See the New line of

GLASSWARE

In Our Window

THOS. H. REA & CO.

D. D. SMITH

Furniture, Rugs
Trunks and Bags

Echoes Ringing Down the Grooves of Time

Preparatory School Big End of Institution in its Early History.

In giving the early history of the preparatory department it is almost impossible to separate it from the college proper, as in the pioneer days the preparatory school was the big end of the institution. The old Academy building which used to accommodate the greatest number of classes was situated at the corner of Main street and Third avenue, where the beautiful and imposing Catholic church now stands. It was a low frame building of five rooms, heated by stoves, lighted by oil lamps and ventilated by cracks in the floor and walls and incidentally, by broken panes of glass in the windows.

This old building had served the various purposes of skating rink, Presbyterian Academy and Chinese night school. When the question arose as to where the college might find a place for its people, Mr. Nelson Story came to the front and donated this building, which was for five years the early home of the Montana State College of Agriculture and Mechanic Arts. It was not long before it was found that these quarters were not sufficient to accommodate the growing attendance, so through the courtesy of the City Superintendent of Schools, W. E. Harmon, the college was given rooms in the Irving school.

When the next catalog was published we find this entrance requirement: "Town students entering the Prep. course will be charged a fee of \$25 per year instead of \$10, as long as they continue in that course."

The preparatory department was organized in 1894, with B. F. Maiden, who had been Prof. of English in the Presbyterian Academy as principal. A one year course was provided for those who were not sufficiently advanced in the common branches. This consisted of Arithmetic, Grammar, Geography, Orthography, Physiology, and United States History. A footnote states: "Spelling will be taught throughout the year. The enrollment for the first year in preparatory work was 38; college 34."

No further changes were made in the courses for the preparatory school until 1895-6, when another year was added, making the course two years of three terms each—Fall Winter and Spring. This additional year provided some work in the sciences and an option in Latin. Prep. enrollment, 46, college, 44. Of the number enrolled six finished college work in this institution, two of whom are now holding responsible professorships in other institutions.

Any of Our Men's or Boy's Suits at 1-4 Less

This includes all of our highest grade suits and latest purchases.

A FEW SUITS
SIZES 35 TO 33
AT LESS THAN

HALF PRICE.

These were bought prior to 1911.

Those who are not particular to have the very newest models can secure a suit, well tailored, from good cloth, at

\$3.00 to \$10.00.

The Willson Co.

BOOSTERINES ADOPT CONSTITUTION FRIDAY.

The Boosterines held an important meeting last Friday during the eleven o'clock hour. A constitution prepared by Misses Ruth Stanton, Georgia Cullum and Mae Myers, was adopted by the society. This constitution provides that every college girl and all lady members of the faculty may be members of the club. Dues are to consist of twenty-five cents a semester and a fine of ten cents is to be imposed for absence from any regular meeting. Officers are to be elected annually, in February.

After the adoption of the constitution ways of making money were discussed, and it was decided to have a leap-year dance in the near future. Plans for the tournament will be taken up at the next meeting.

INTER-COLLEGIATE

The first college men's Woodrow Wilson club to be organized in the West will be started at Fargo college.

A German Club has been formed at the Willamette University to make the members more familiar with German conversation.

The first production which the Dramatic Club of the Michigan Agricultural College presented this year was "The Rivals," which met with great success.

Preliminary registration figures is

sued at Yale show a total student registration of 3,224. The figures also show 516 professors, instructors and officers.

The Grinnell college band is becoming a permanent and excellent organization. There are now twenty-eight members, all with years of band experience. A concert will be put on shortly after the holiday vacation. Work already has been started on it.

Miss Emma Carola Woerishoffer, 23 years old, who died at Cannonville, N. Y., recently from injuries suffered in an automobile accident, left in her will \$750,000 to Bryn Mawr college, \$30,000 to the Issabella Heimath in New York city and \$10,000 to the college settlements association.

Ithaca, N. Y.—Fifty male students of Cornell who are waiting on the tables of the "co-eds" in Sage dormitory struck recently. The boys struck they said, because they were obliged to eat butter that had come back to the kitchen from the girls' tables, and to drink milk they believed to be watered.

The Olivia Josselyn hall, a gift of Mrs. Russell Sage, is being erected on the north campus at Vassar college. It will house 100 students, completing the accommodations for 1,000 students on the campus, the number to which the trustees have limited Vassar. Josselyn hall will be ready for occupancy in September, 1912.

GRADES DISCUSSED.

Continued from page 1.)

pass grade is low, the tendency is to make the examination questions more difficult to answer and the papers are more rigidly graded. In the final analysis the student is usually passed when the teacher thinks he has enough of the subject to carry on with profit future work based upon the subject. I am confident that the variation in standards is much greater among teachers in the method of reporting the grades as A, B, C, D, E, and F is very common and while in different schools the letters are supposed to stand for different percentages they correspond the same scholarship more closely than do these percentages.

Great differences in the meaning of these grades may be seen by the percentage of A's, B's, C's, etc., given by men in the same faculty. As an illustration, the grades given by three different men on our faculty for the past three years were distributed as follows:

One man's grades were 48.3 per cent of A's; 36.3 per cent of B's; 13.7 per cent of C's; 1.3 per cent of D's; and .7 per cent of E's and F's. Another man's grades were 1.4 per cent of A's; 25.6 per cent of B's; 42.6 per cent of C's; 16.2 per cent of D's; and 13.1 per cent of E's and F's. A third man's grades were 18.2 per cent of A's; 24 per cent of B's; 25.2 per cent of C's; 19.9 per cent of D's and 17.1 per cent of E's and F's. It is practically certain that to a man who gave 48.3 per cent of A's the grade did not signify the same as to the man who gave only 1.4 per cent of A's.

The University of Missouri has adopted a plan designed to help bring about a uniform meaning for the grades given in that institution. Instructors are supposed to distribute the grades approximately as follows: A to 5 per cent of the class; B to 20 per cent; C to 50 per cent; D to 20 per cent and E to 5 per cent. The main objection to this scheme is that the tendency seems to have been there to abide so closely to those percentages that differences between classes are not shown as they should be. A system of this kind being too rigidly adhered to will result in some students getting high grades because they are the best among a class of poor students, while other students better in their work might get lower grades because the class contains a large proportion of excellent students. It is believed that with a system similar to the Missouri plan but much more elastic, more uniformity can be obtained than by that plan or by our present system of grading.

An examination of all the grades given at the college for the last three years discloses the fact that the grades in some departments differ greatly from those of other departments. But the departments may be grouped so that the grades given by the different departments in each group vary but a little. The following table may be of interest:

Course	Per Cent Receiving Each Grade.					Avg. Grade.	No. Grade
	A	B	C	D	E-F		Consid'd.
Home Sc. (S. C.).....	19.9	39.8	27.6	5.4	7.3	81.0	296
Agricultural. (S. C.).....	16.9	31.0	24.6	13.8	12.5	77.4	833
Preparatory.	17.7	35.0	25.5	12.7	8.9	79.0	1716
Pharmacy	18.7	34.4	19.4	17.2	10.4	78.4	124
Freshmen	15.4	28.4	31.6	14.3	10.2	77.2	1862
Sophomore.	13.7	23.2	28.3	14.8	9.9	77.6	1193
Upper Class.	28.8	40.5	21.2	5.6	3.2	83.5	1874
All Grades.	19.4	34.5	27.7	11.7	8.4	79.8	7819

Basal group containing English, Mathematics, Chemistry, Biology and Physics

Course	Per Cent Receiving Each Grade.					Avg. Grade.	No. Grade
	A	B	C	D	E-F		Consid'd.
Preparatory.	13.2	29.9	27.7	16.9	13.4	76.5	801
Freshmen.	11.2	22.2	36.3	17.7	12.5	75.2	1966
Sophomore.	4.9	23.2	32.8	19.1	15.0	72.9	713
Upper Class.	21.8	42.2	24.1	7.3	4.5	81.9	298

General group containing Foreign Languages, Art, History, Geology, Psychology, Economics, etc.

Course	Per Cent Receiving Each Grade.					Avg. Grade.	No. Grade
	A	B	C	D	E-F		Consid'd.
Preparatory.	14.2	31.7	29.7	16.2	8.1	77.8	296
Freshmen.	10.9	33.9	34.9	13.7	6.7	77.8	313
Sophomore.	16.4	43.9	28.3	9.7	15.0	81.4	134
Upper Class.	14.5	43.9	33.6	5.8	2.1	81.3	378

Applied group containing Home Science, Agriculture, and Engineering:

Course	Per Cent Receiving Each Grade.					Avg. Grade.	No. Grade
	A	B	C	D	E-F		Consid'd.
Preparatory.	25.2	43.5	21.2	5.7	3.6	82.9	619
Freshmen.	27.8	33.9	19.0	7.0	7.4	82.3	484
Sophomore.	30.7	39.6	19.0	8.1	2.6	84.8	346
Upper Class.	37.3	33.8	15.9	4.9	3.2	85.2	1098

This will show that the grades a man gets depends largely on the course he is taking; also that the rule of giving a man his degree with honor when he makes an A grade in 50 per cent of the credits he takes makes

W. D. TALLMAN.

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PLAIN AND TURKISH BATHS
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If you want your

LAUNDRY

.....done right, try

Phones

BECK'S

WM. VESTAL, Agent.

Packages Called for and Delivered.

PROF. CLARK PREPARES BULLETIN ON DAIRYING IN MONTANA.

Prof. R. W. Clark, instructor in animal industry, has prepared a thirty-six page bulletin on Dairying in Montana. The bulletin contains information regarding the care of dairy animals, and instruction on the general upkeep of buildings and equipment on a dairy farm for their most efficient use. Statistics taken from the college herd of dairy cattle are given showing the possible profit and cost of keeping of different breeds of dairy stock. Valuable suggestions are also offered as to the most profitable methods of turning dairy products into money.

This bulletin which will be sent out to farmers throughout the state this month should prove very interesting and instructive to those interested in that branch of farming.

A meeting of the Montana Dairymen and Creamerymen will be held in Bozeman on January twenty fourth and twenty fifth for the mutual benefit of dairymen and creamerymen. Several speeches pertaining to that branch of industry will be given by prominent men interested in dairying from all over the state. All railroads will give a round trip rate of one and one-third fare to this meeting.

As a result of continued complaints from theatre managers and others, Chancellor Avery of the Nebraska university has placed a ban on that old-time college favorite song, "Hail, Hail, the Gang's all Here." In an order issued recently he threatens with expulsion students who sing it in public.

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Cakes and Pastries made to order. Fresh Bread every day.

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CYKO

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Use Cyko paper and finish up last summer's pictures. The ones you have promised yourself to print. us to show you.

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"Better than usual" tablets at 5c and 10c