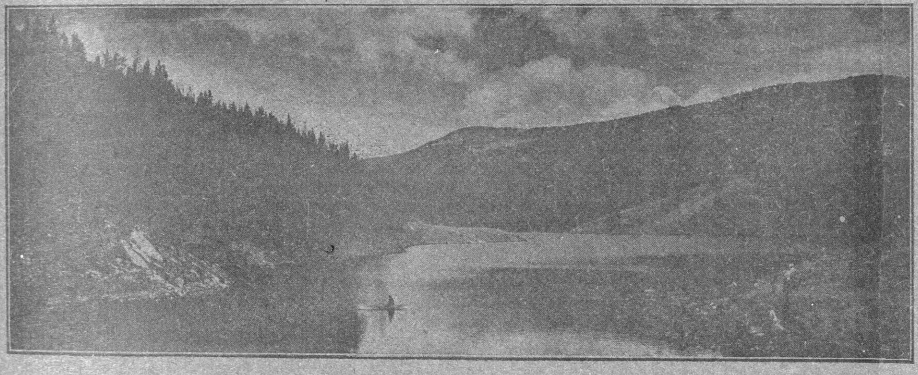
The EXPONENT

Volume XI Number 1



MYSTIC LAKE, Near Bozeman, Montana

October, 1906

Bozeman, Montana



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HIRAM DOUGLAS COOK

The Exponent

VOLUME XI. NUMBER I. WHOLE NUMBER 88.

BOZEMAN, MONTANA, OCTOBER, 1906.

Hiram Douglas Cook

The joy of returning to College and greeting old friends and new is always more or less clouded by the absence of some expected faces. This year the sense of loss is rendered especially deep by the realization that Hiram Cook has been called from our midst. He had planned to complete his college course in M. A. C. but his Heavenly Father deemed him worthy of higher honor and took him into the larger life. Hiram Cook was born at Darby, Montana, June 28, 1884, and received his education in the public schools of that vicinity until he came to Bozeman in 1902 to enter the second year of the preparatory course of this College. He was graduated from the preparatory department in 1904 and had just finished the sophomore year when he was accidentally drowned in the Yellowstone river near Livingston July 22, 1906. The body was not recovered until Saturday, July 28. It was taken immediately to the family home at Como, where the burial service was read on Tuesday by the Rev. Mr. Cockcroft, of the Episcopal church in Hamilton. A number of classmates and teachers carried flowers to the train as it bore its sad burden through Bozeman Sunday noon, whole others sent a profusion of flowers and messages of love and sympathy.

During the four years of his student life among us, Hiram showed only the admirable and lovable traits of young manhood. He was brilliant and thorough as a student, clean and vigorous as an athlete and loyal and helpful as a friend. It was his policy to always do more than the required amount of work. At home, in the capacity of eldest son and brother on a large ranch he gave efficient performance of duty and then added an abundant measure of sympathy and good cheer. In his school life, he not only studied ahead of his classes but found time for the general activities and interests of college life which make for breadth and helpfulness. The watchword of his life was "sunshine." He strove to attain in his character the power, the cheerfulness and the contented faith of a sunny nature. He had marked in his bible this suggestive verse: "For I have learned in whatsoever state I am, therewith to be content." Phil. 4-11. In a small volume of "Voices of the Night," which he carried in his pocket for frequent reading, many marked passages show the stregth and beauty of his life philosophy. This, for instance, is characteristic:

"Build today, then, strong and sure
With a firm and ample base;
And ascending and secure
Shall tomorrow find its place."

How much more than we can say has our College life been enriched by the influece and memory of Hiram Cook!

Abram Irvin Rich

Irvin Rich, a son of Mr. Josephus Rich, of Dillon, was 22 years old last February. He was raised in Dillon, receiving his early education there and was a graduate of the Dillon High School, also taking one year business course in the same school. He entered the College here in Bozeman as a freshman the school year of 1902-3, and the following winter he took the Short Course in Engineering. He was then employed by his brother-in-law, Mr. E. V. Moore, on the dairy ranch near town, spending most of his time that year with Mr. Moore and with his father in Dillon. He then took a post-graduate course in the business department of M. A. C. last winter, and through the summer he was again in the employ of Mr. Moore until about the 23d of August he received a position as clerk in the storekeeper's office at Livingston. Mr. Rich was a phyical young man, enjoying good health, and was a member of the signal corps of Company A, Montana National Guards, while in Bozeman. He was possessed of a quiet, manly disposition, gaining the highest respect of all who knew him and he was especially well liked among his College friends.

While employed in the storekeeper's office, he had been to the station and started back through the yards on the freight track and was near the Main street crossing when he saw an engine approaching and stepped from the freight track to the scale track just as another engine backed down that track, but before he could get out of the way he was struck down and run over by the engine. Mr. and Mrs. Moore took charge of the body which was taken to Dillon for interment.

Lumbering In Montana

All through western Montana lumbering is one of the chief industries and to those who live in the central or eastern part of the state the great pine and fir forests are a revelation.

Along the N. P. railroad and for miles back all the available timber has been cut down, and before the government established its system of forest reserves, thousands of dollars worth of timber was carelessly destroyed. Forest fires have been only too abundant and they have left their unsightly marks wherever they have raged.

For miles and miles stretch the baby forests, the little trees that have sprung up in the clearings, that will in time, under careful protection, grow to full sized forests, to yield valuable returns. If the science of forest preservation had been understood and practiced sooner, the time would not be so long before this timber could again be utilized.

The timber supply has not been exhausted farther back in the mountains, however, and sawmills are very numerous throughout the lumber district. To visit one of these great mills, especially at night, is immensely interesting—the huge logs, carried in from the dam on the endless chains, sorted, shifted, piled and handled, all by machinery, more easily than a man handles cord wood. The noise is deafening, so unless you have a chance to have the machinery explained at a time when the mill is

not running, you will learn little about it.

The most fascinating places at night are the furnaces and the burners. The only fuel used is the sawdust, and the furnaces can not burn it as fast as it is made, and hence the necessity of the burner. This is an immense stacks into which the sawdust is dumped and burned. The draught is so strong at the bottom that your hand is drawn in at the air spaces if held too near, and the heat is intense. At night, from a distance, the burner is beautiful. Often even the burner cannot use up the sawdust, and it has to be carried elsewhere to be burned.

This is a beautiful autum night,
And the harvest moon is all aglow,
Smiling at me, as I sit alone,
Just as he smiled of an hour ago.

The summer season is hardly past
With all of its laughter, its larks, and its noise,
And another season of a somber hue,
Has come to temper these wilder joys.

The summer has left us in such a whirl
Of Toms and Dick and pretty girls,
That our heads are as light as their muslin gowns,
And our wits are tangled with pretty brown curls.

A senior's cap on a head like that
Alas, the moon shall smile in bliss!
But he that smiled of an hour ago
Had no such reasonable reason as this.

—C.

Tanglewood Island

In a quiet, secluded bay, far from the bustle and turmoil of the city, Tanglewood Island rises twenty-five feet above the glassy surface which reflects the rich splendor of the verdure.

On one side are wide wooden steps leading from the pebbly beach up a steep winding path. Rustic banisters covered with ivy follow the foot path on either side, and to the left a climbing rose bush has reached the summit of the cliff. The path leads to a large frame house surrounded by a spacious lawn. The pillars of the porch are covered with ivy vines, and around the windows are climbing everbearing rose bushes. Just at the back of the house is a small fish pond with cat-tails and water-lilies growing in it, and a little to one side of this, a tennis court is seen.

From the house and lawn to the beach at one end, a flourishing orchard and flower garden spreads, shut off from the lawn by a well-kept hedge of holly. Here roses and lilies bloom in abundance, and the even rows of apple trees and strawberry plants show good care and cultivation. On the right side of the house and back of the pond a different scene appears. Tall, straight fir and cedar trees shoot up; peculiarly shaped madrono trees wind their curious branches in and out, forming odd-looking seats here and there; ivy twines around and up the trunks of huge firs, making in all a perfect forest, and beyond, through the trees, the water gleams, still and clear.

—F. H.—M. '07

Billy Smith, Sheriff

October had come, bringing with it a wild night. Rain and sleet beat against the post office at Halliday, warning the inmates of that little sod shack that the haying and round-ups were over. The group in the cabin were a score of jovial cowboys who had gathered here as was usual on Saturday nights to get the weekly mail which came out by the stage from the railroad. They were drawn up around a cheerful fire and the blue smoke from their cigarettes curled up to the ridge pole of the shack. Kennedy, just out from Dickinson, was speaking.

"Yes sir, the town was sure excited. Goodale brought him in to Doc. Davis, and they worked over him all morning but he lived just ten hours after he was shot."

"It's funny McPeak did'nt get one of the posse. Every one said he was mighty good with a gun," said Baird.

"Well," said Kennedy, "Goodale got him with the sun in his face, and McPeak wasn't lookin for anyone anyway, so when he came in the whole posse opened fire on him and his horse together."

Old man Halliday, the big woolly headed postmaster, took a long pull at his cigarette, threw the stub into the stove, and blew the smoke in a cloud from his nostrils.

"Well I reckon that would rouse up the town some," he said. "It's been some time since it has had anything like that for excitement, but fifteen years ago a fracas like that was common. McPeak had stolen horses long enough and I expect is better dead and Goodale didn't know a better way of taking his man than rounding up his victim and shooting him down. That way is alright for these times but Billy Smith would have done as well with less expense and trouble.

"Never heard of Billy? Well I guess that was before your outfit came up the trail. He was sheriff in '83 and our outfit didn't throw their bunch over here until '85. There never was a pluckier sheriff than Billy and it was a blow to the whole country when young Boucher got him down at the Double X crossing. Billy never took a score of men along to run down his man. He went alone and almost came back with what he went after. A fellow we called 'Squint Eyed McCarthy' used to give Billy the slip now and then and the third time Billy captured him it was the nerviest piece of work I ever heard of.

"McCarthy was only a low ordinary horse thief at first, but once down on the Cedar river roundup 'Old Squint Eye' got busy with his irons and smoked up a couple of Cross S fellows. One of them died the next day and McCarthy quit the flats. Along that winter Billy had McCarthy spotted down in Wyoming and went down and got him. McCarthy broke jail three days after he was landed in Dickinson and it took Billy two weeks more to chase him down again. McCarthy was given a short trial, but as most of the fellows who were on the roundup when the shooting occurred had gone down the trail that fall, the lawyers had little evidence against him, and the judge gave him ten years on his general bad character.

"Ten days after Billy had turned McCarthy over to the state warden Breck at Bismarck, news came to Dickinson that he had killed a prison guard and escaped. No one ever knew just how he got his arms but it was a long time before he was seen again. I think it was at the third roundup the AHA boys had out in the Mouser river country that Billy was called out to look up why so many Hans

Creek men were losing stock. Some fifty head of horses were gone and the boys around Hans Creek suspicioned several parties. Billy was camped with the Converse outfit one night when an AHA out circle rider rode into camp and said he had located a strange fellow herding a bunch of horses with mixed brands over on Squaw creek and was able to give a fair description of the fellow and his herd. Billy didn't seem unusually interested over the news and after supper and the usual smoke he rolled up in his blankets under the mess wagon, and soon everything was quiet about the camp. Next morning before it was light enough to see, the cook's tattoo on the dish pan brought the cowboys from their blankets to breakfast around the fire—but Billy was missing. Three days later he came in with 'Mr. Squint Eyed McCarthy' strapped to the saddle and he told me about it afterwards.

"He rode out on the morning after he got the report from the AHA man and at daybreak had located the strangers. From a distant hill with his field glasses he watched the bunch trail down to water and then feed back on the flats again. Then he rode around to the water hole, hid his horse in a nearby gulch and hid himself among the sage brush near the spring. You fellows know where the place is. It's off to the right from Dog Tooth Butte, about 500 yards and right handy to Squaw Flats. About noon the bunch began to trail in to drink and when their herder came in range of Billy's glasses it proved to be McCarthy.

"He waited until McCarthy had come up within twenty-five yards of him, then he covered him and called 'hands up.' McCarthy's hands went up and his horse's head went down and for about a minute Billy said he never saw a horse buck harder. The dodge was new then and it didn't oze through Billy's head what was up until McCarthy jabbed his spurs into his horse and dug out around the cut bank out of range. Two minutes later both the sheriff and the outlaw were riding head long toward the south and after ten minutes hard riding Billy caught sight of McCarthy as he crossed Fifteen Mile creek, and now and then during the afternoon he caught fleeting glances of him as he dashed across some flat or over some divide. About four in the afternoon Billy ran into a bunch of 'Seven' horses and caught a fresh mount. The distance between him and the outlaw now rapidly diminished but it was useless to chase McCarthy alone. Some other way must be found of capturing him.

"Swinging to the right he rode rapidly toward Round Top Butte which he climbed, and watched with his field glasses the course of the fleeing man. Experience in hunting outlaws and a knowledge of the country helped Billy to lay his plans. Knife river has few good fords. The best one is perhaps where the Slack outfit is located. To the northeast of this crossing is a rough country. Well, it was Billy's idea that since McCarthy's horse was all in, he would camp in these 'brakes' until daylight the next day and then with his horse refreshed and once across the river into the foothills beyond, only trained bloodhounds could follow his trail.

"Billy's plan was this: He would go down to Plangmeyer's crossing, which is about five miles above Slack's, cross over, come down on the south side of the river and hide among the willows and sage brush at Slack's ford to wait for McCarthy. If 'Squint Eye' came down in the morning, and saw fresh tracks at the ford he would be cautious about crossing, and perhaps turn either up or down the stream and cause Billy trouble in locating him, and it was

Billy's plan to surprise McCarthy when he was in the middle of the stream, so no bucking dodge would work again.

"Billy unsaddled his horse and staked him out to feed for the few minutes he had left before sun down. He busied himself in the meantime by eating the last of the lunch he had taken from the Converse grub wagon the night before, and watching with his glasses for traces of McCarthy. Just before the sun went down he saw a mere speck slowly climbing the high slope of the Knife river divide. He watched this carefully with his glasses. It was no one else than McCarthy, and after he had reached the top of the divide, he stopped as if to view the surrounding country. For a few moments he was stationary, then moved slowly over the divide, and disappeared from view on the opposite side.

"The coast was clear now, and Billy caught and saddled up his horse and after about an hour's ride and some careful planning was hidden away among the sage brush and willows at Slack's crossing; his horse he had tied down in a bunch of willows. The night passed in silence and the dawn came and went. The sun was high before the much disappointed and half starved Billy crawled from his hiding place. It was evident that McCarthy had given him the slip, but where and how was beyond the limits of his reasoning.

"He thought a grouse would make a good breakfast, so he worked over to his saddle and placed his rifle in the saddle holster.

" 'A sixshooter will do to kill grouse,' he thought, so he followed a path among the willows down the stream for a short way, then suddenly emerged into a small opening, and as he did so he frightened a number of grouse from the clearing, which flew up into the willows just beyond. Billy covered one and pulled the trigger. The hammer only clicked. A nervous thrill ran down his back as he thought of an encounter with McCarthy with cartridges that wouldn't go off.

" 'I'll dump the whole bunch and load up fresh,' he thought. Billy never ran any chances unless it was necessary, so he dumped the cartridges on the ground and was shifting his belt around to reload when the brush snapped across the stream and he saw the white slouch hat of McCarthy emerge from the willows. Billy had a bead on him in a second.

" 'Put 'em up. No monkey work this time. Get into the water and come across.' And old 'Squint Eye' sure got in. The stream was deep but with a little trouble McCarthy succeeded in landing on Billy's side of the stream.

" 'Now, old man,' said the sheriff, 'just take off that belt and sixshooter and use only your left hand. Keep the right where you've got it. That's good. Let it drop, belt and all. Now take a little stroll twoard that sage brush. Good! Halt!'

"Billy slipped up and picked up the outlaw's sixshooter, and covering him with it, spoke again.

" 'All right now, McCarthy, you can let your hands down now and carry this gun for me. Don't try to use it for it hasn't been loaded for the last five minutes, and I see your iron is in good shape. I've got a horse up stream. Now march!'

"Billy found his horse, and mounting it, made McCarthy walk on ahead. Late in the forenoon they ran across two 'Diamond C' line riders and borrowed a horse for McCarthy, whom they strapped into the saddle.

"No, McCarthy never got away after that. He died in the 'Pen.' about a year ago. Yes, it was pure nerve, but Billy had plenty of that. Everyone was mourning when Billy

was killed down at the Double X. He sure was an all right sheriff."

Lisle Henderson, '09.

COLLEGE CALENDAR FOR SEPTEMBER

Monday, 10th—Registration.
Tuesday, 11th—Registration.
Wednesday, 12th—First Semester began.
Friday, 14th — First assembly, addressed by President Hamilton.
Monday, 17th — Sophomore class meeting.
Tuesday, 18th — Freshman class meeting, assisted by the Sophs.
Wednesday, 19th—Opening meeting of Y. W. C. A.
Wednesday, 19th—Engineer's meeting.
Thursday, 20th—Half holiday to attend Gallatin county fair.
Friday, 21st—Reception for students at Methodist church.
Saturday, 22d—Meetings of Hamiltonia and Philomathion.
Sunday, 23rd — C. E. service for students at Presbyterian church.
Monday, 24th — Third Prep. class meeting.
Monday, 24th — Musical recital in assembly hall.
Tuesday, 25th—First Y. M. C. A. meeting.
Tuesday, 25th—Freshman cremated by Sophomores on campus.
Tuesday, 25th—Junior class meeting.
Tuesday, 25th—Reception for students at Presbyterian Manse.
Wednesday, 26th — College exhibit left for state fair.
Thursday, 27th—Y. W. C. A. meeting.
Friday, 28th—Exhibit of Freshman art.
Friday, 28th—Assembly addressed by Mr. Dodge, "good roads" expert from Washington, D. C.
Friday, 28th—Y. M. C. A. reception for men.
Saturday, 29th—Y. W. C. A. reception for girls.
Saturday, 29th—Meetings of Hamiltonia and Arena.

The Exponent

A Journal Published Monthly During the College Year
by the Students of the Montana Agricultural College.

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FRIEDA M. BULL, '07.....Assistant Editor-in-Chief
AMY M. COOK, '08.....Literary Editor
AGNES MOUNTJOY, '07.....Exchange Editor
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ENTERED IN BOZEMAN POSTOFFICE AS SECOND CLASS MATTER

Editorials

With the opening of another term of school the Exponent appears again and extends a hearty greeting to the old students and a cordial weclome to those who are here for the first time. As a natural result of the management of the Exponent by an entirely amateur staff the paper is necessarily conducted on plans that are either theoretical or an imitation of what has been tried before, and with such a foundation the highest perfection cannot be attained. Our aim, broadly stated, is to fill such wants as such a magazine is capable of filling, and what these wants are and how they can be best satisfied cannot be determined entirely by our own theories and experience, but for guidance we must depend largely on suggestions from the students and others interested in our work. In short if the College paper does not come up to the standard it should, or is foreign to the interests and sympathies of the students a word of friendly criticism or a suggestion on your part will be appreciated and if possible embodied in the policy of the Exponent management.

It is with a deep feeling of sadness that we are called upon to chronilce the deaths of two former students of M. A. C., though we appreciate the opportunity to pay them our last respects in the tributes found on the preceding pages. Owing to the accident happening to Mr. Rich so shortly before the publication of the Exponent, there was no time to have a cut prepared for a picture as we would otherwise have done. To their many friends and bereaved ones we extend our sincerest sypmathies.

The simple life—Doing your own work. The strenuous life—Doing some one else's work. The modern

life—Letting some one else do your work. Some student has jokingly written these lines and after all how truly they classify the different degrees of college life. College life for each of us is just what we make it—we get no more and no less out of it than we put in. If we like it, it is largely due to ourselves. If we do not like it—it is in a measure our own fault and that student who is devoting his entire time to himself and his own affairs misses the pleasantest part of his college life and is the very one who is dissatisfied with—well—with things in general. This student whom we quote terms this selfish sort of life the simple life. The easiest? Yes, perhaps, and yet neither the most profitable nor the most pleasant. Surely besides the regular college curriculum each student ought to be able to do some outside work. It may be the Y. M. or Y. W. C. A. work. The literary societies or the college paper may need you, and every student should get into some kind of athletics, but be it one or the other of these organiztions the wise student will choose at least one, early in his or her college course and by thus supporting it will not only get a training in practical work that can come in no other way but will in a small way make a return for what the college is doing for him. It is the lack of the individual realization of work that causes this terribly strenuous life for a certain few and the time is to be looked forward to when those who are doing some one else's work here in our college, may be relieved by those who are willing to take up their own work. And so we'll not believe in the modern life—here in our college—and we'll not have that excessive strenuous life—but shall we not each find our own work and do it to the best of our ability—thus enjoying that college life which will truly be the busiest, happiest and simplest.

Class spirit is a thing which has not been entirely lacking in our college during the past several years and this year it bursts forth again with renewed strength and vigor. Such kindly and friendly rivalry as the "Hanging and Cremation of a Freshman" and the challenge of the '10s by the '09s to a foot ball game is real class spirit, and is inspiring and exhilarating but class spirit like most other things of this world can be carried too far and when it gets to this point it is sure to bring woe upon the heads of its promoters. A word to the wise is sufficient—and hereafter the surplus energy of our two most enterprising classes will find vent in interclass debates, foot ball games, etc.

Alumni and Ex-Students

Inga Solberg is teaching in Sweetgrass county.

Grace Clark is teaching in the Durham district.

Miss Mary Kirk, of '06, is teaching at Springhill, Mont.

Fred Ervin is employed in the smelters at Anaconda.

Gordon Stewart is clerk at the Florence Hotel, Missoula.

Fred Brown is working on the Huntley project at Billings.

Martha Koch has gone to National Park Seminary, Washington City.

Wellington Moxley is motorman on one of the electric railways of Seattle.

Miss Agnes Morris is attending Leland Stanford University this year.

Dean Osborne has entered the medical course of Iowa University at Iowa City.

Jesse Davidson is telephone engineer with the Western Electric Co., at Chicago.

Miss Eliazbeth Sanford, a preparatory student of last year, is at Ketchikan, Alaska.

Anna Krueger is going to attend the McFadden School of Physical Culture this year.

Howard A. Flager, '06, is employed by the Missouri River Power Co,. at Canyon Ferry.

Harry Gregory is practicing scientific farming on his father's ranch near Gebo, Mont.

Chas. Sackett, of '04, who is at present city engineer for Livingston, is campaigning for the office of county surveyor of Park county.

Harvey Sloan is democratic nominee for county surveyor, and seems to have no opponent.

Sarah Chaffee, '06, is doing assistant work here this year, as well as some post graduate work.

Stanley Koch, lieutenant in the United States army, is stationed at Fort Meade, South Dakota.

William Bole of the class of '06, is studying medicine at John Hopkins' University, Baltimore, Md.

Miss Clara Clark, a former student of the chemical department, is at Alma, Colorado, examining mines.

Ralph Holgate visited the College a few days ago. Ralph is now a student of Northwestern University.

Leo G. Titus has moved with his people to Seattle, Wash., where he will enter the University of Washington.

W. B. Freeman of '05, is working on the Milk river project under the U. S. Reclaimation Service, at Babb, Montana.

Mr. Clothier, who did some special work here a few years ago, was married September 6, 1906, to Miss Margaret Lockhart, one of Gallatin county's favorite teachers. Mr. Clothier is principal of the Manhattan schools, and it is in Manhattan that they have made their home.

Miss Beatrice Freeman of the class of 1900, was happily married on September 5, 1906, to Mr. Thomas Stephen Davis. They will be at home after October 1 at Columbus, Montana, where Mr. Davis is employed as manager of the H. M. Allen Lumber company's yards.

Ralph G. Boyle and Minnie Stevenson surprised their many friends on May 31, 1906. At the home of the bride's father a few friends gathered to witness the ceremony which made Mr. Boyle and Miss Stevenson man and wife. The ceremony was performed by Dr. R. M. Donaldson, of the Presbyterian church. Immediately after the ceremony the happy couple started for their future home in Los Angeles, Cal. The best wishes of the College go with them.

On the evening of August 8th at St. James' church occurred the wedding of Maurice A. Lamme and Mabel Perle Foster. After October 1st they will be at home in New York City, where Mr. Lamme is employed as an instructor in Colubmia University.

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SOCIETIES

CORRESPONDENTS

Y. W. C. A. ..... Bessie Thorpe
Y. M. C. A. ..... Raymond Bancroft
ARENA ..... Arthur Peterson
ENGINEERS SOCIETY ..... Harold Flager
DOMESTIC SCIENCE CLUB ..... Phoebe Morgan
K. S. C. ..... Eugene Quaw
PHILOMATHION ..... Maud Smith
HAMILTONIA ..... Mamie Alward

Arena

With a large attendance and much enthusiasm, the first regular meeting of the Arena ror this year, was held September 29th in the Guild Rooms. The regular order of business was taken up and the following regular committees appointed: censor program, initiation and membership. A special committee of three was appointed to draw up resolutions of sypmathy in respect to the late H. D. Cook. Owing to the inconvenience of the present meeting place a committee of three was appointed to make arrangements for a better place. The question of a moonlight picnic was next considered and with it came the sensation of the evening. As usual a girl was the cause of the disturbance. Some of the Arena's drooping forms that have fallen under the bane of feminine influence began to discuss girls. Their discussion soon took the form of motions, amendments, and amendment to the amendments. Such amative faces as Lorentz, Mountjoy, Penwell and Kremer delivered themselves of their tenderest thoughts in a grand assault on the reluctancy of a bashful brother. Their aesthetic onslaught resulted in the appointment of a committee of five to look after the domestic affairs of the diffident one. It was further decided to have the picnic the night of October 8.

The much talked of moonlight picnic of the Arena took place Monday night, October 8, in Bridger can-

yon. A large hayrack, a wagonette, and several private conveyances carried the picnicers from Bozeman to the picnic grounds. Fifty-four persons were present. Prof. and Mrs. Burke chaperoned those in the larger conveyances. After the selection of a picnic ground two large bon fires were started. Around these the merry young folks gathered, singing songs and telling tales of the has-been and might-have-been. About ten o'clock delicious refreshments were served and at eleven the tired but happy "moonlighters" started home singing praises to "Our Arena."

Any new College students wishing to join the Arena can do so by giving their names to any Arena member or any member of the membership committee. We are going to have very interesting and profitable meetings this year, so anyone interested had better join with us early.

K. S. C.

The Art department has made a successful beginning for the year with an enrollment of over ninety students. Many lines of work are taken up, among them are drawing from still life, wood carving, clay modelling, and china painting. Also a number of young men may be seen on the campus any afternoon; to the casual observer they look like a picnic party, but on closer observation, seeing no ladies present he concludes that they are probably the engineering class sketching from nature. The Art Club met Friday, September 28, in the Art rooms. It was decided that they would start on their usual annual art tour abroad. Arrangements will be made, however, so that the club will be able to spend several days in New York, preparatory to taking their steamer. They will visit the art galleries in New York and make preparations for steamer accomodations and little necessary comforts for their ocean voyage. It is hoped that the club will meet with success on their pleasant and profitable art tour.

Y. W. C. A.

The Young Women's Christian Association has resumed its work for this year. Already three meetings have been held, all of which were well attended. Five bible study classes have been organized with a total enrollment of thirty-two.

Rev. B. Z. McCollough, of Billings, delivered a splendid address in behalf of the Y. M. and Y. W. C. A. at the regular weekly assembly on October 5. His address increased the interest of the student for the upbuilding of both societies.

Saturday afternoon, September 29, the girls held their annual "Shirt Waist Spread" in the domestic science rooms. Besides the new girls of the College, the new "Faculty Wives" were there. Everyone reported a very enjoyable afternoon.

Y. M. C. A.

The year has opened with a promising outlook for the Y. M. C. A. We have had one business and two devotional meetings and have also taken in several new members.

Friday evening, September 28, a reception was given for the young men of the College. Interesting talks were given by our president, Mr. Floyd Lorentz, and Prof. Brewer.

Refreshments were served and the boys all had a pleasant evening.

On Friday evening, October 5, the Y. M. and Y. W. C. A. gave a reception to all new students. A fine program consisting of music and recitations was rendered and refreshments were served. A general good time was had and many new acquaintances were made.

At our last assembly Rev. McCollough, of Billings, gave a very interesting and beneficial talk.

A growing interest is taken in the Y. M. C. A. work and we propose to make this year the most fruitful in the history of the association.

Engineers' Society

This year the Engineers' Society started off with a membership of 69, and takes its place as one of the largest organizations in the college. Some people are under the false impression that this is a society for boys only; however, we have one lady in the society now as an associate member, and if any other young ladies of the college are desirous of joining with us we will be pleased to furnish them with the information as to how they may do so.

Judging from the attendance at the meetings last year, it is evident that some of the members take no interest whatever in the society, except as it is a means of procuring books and drawing supplies at a very low figure. This is really one of the aims of the society, but it was organized also for the purpose of promoting the study and discussion of engineering subjects; so it is the intention this year to have different members take part in each meeting, either giving an account of some engineering project they have taken part in or seen carried on, or a discussion of some article already published. It is hoped in this way to arouse greater interest in the Society and to make the meeting both instructive and entertaining.

At a special meeting held on September 25 several amendments were offered to the constitution to be voted on at the first regular meeting, and Mr. W. J. Kremer was elected as secretary to fill the vacancy caused by the resignation of Leo Titus.

Domestic Science Club

The Domestic Science Club feels a great deal of encouragement in the many new and helpful new features added this year, and very particularly in the addition of so many students. Let us tell you what we have.

In the sewing room the partition has been removed from the old D. S. office and now it is all a big sewing room, except the one small fitting room. This was necessary because there are at present over fifty people enrolled in the sewing class. There is a new dress form and new cutting table in the department now, and a case in which to put our exhibit for fairs and when it is not in use as that, it will be left in the sewing room. Through the kind courtesy of the owner of the Golden Rule store we were given a large full length mirror at actual cost.

Miss Belle Osborn is a student assistant two afternoons in the week, and if you care to step down to the sewing room any day you will find almost all the girls engaged in the preliminary work of making neat white caps and aprons for use in the department.

But not alone in the sewing room are the evidences of life, for in the kitchen we have some nice new things too. If you care to come down, we will show you our good microscope which is going to be of great aid to the thoughtful experimenting girl, and you will see, too, that we have a desk to accommodate four other girls, as some of the classes necessarily contain more than twelve girls.

You have doubtless heard of Norwegian Cooking boxes and hay boxes. We have them actually, and are going to use them this year. Of course, they are quite new, and if you care to find out about them, ask at the department, or any of the club girls.

The club girls of last year have all

been engaged in actual practice this summer some place, and we are glad to think that our course, while very scientific, is very practical. The realization of this can be shown by the fact that our long course had last year five girls and has this year twenty-three. Everything is being done to make the best possible of this, as we think best of course, and we hope to be always able to report work worthy of the effort, put into the department.

Hamiltonia

The Hamiltonia society has commenced its work with renewed energy. Two meetings—business and literary—have been held. At the business meeting new officers were elected to fill the vacancies left from last year. They are as follows: Edna Tracy, president: Lucile Mountjoy, secretary and treasurer; Phoebe Morgan, historian; Mamie Alward, corresponding secretary.

At the literary meeting, Mrs. Hall, Annie Breneman and Phoebe Morgan gave very interesting talks upon their trip to the convention at Seaside.

Topics for two meetings have been chosen. The next program will be on October 13, at Miss Ethel Widener's. The subject is "President Roosevelt and His Life as it has Influenced His Work." The following meeting, October 27, is to be on "Hallowe'en Customs."

Visitors are cordially invited to come to our society at any time. Ladies of the faculty, come and see what the girls of the College are doing.

We hope to have every girl in College, who is a graduate of some high school or academy, a member of the Hamiltonia society. If you have not already done so, hand your name to some member to be voted upon for admittance. We want our society to grow—for growth makes might.

Philomathion

The Philomathion literary society held its first meeting September 22. Some new officers were elected and a number of names handed in. Visitors are always welcome.

Musical Department

MISS ETHEL WIDENER }
MISS FLORA HARTMAN } .....Correspondents

The music department has already begun to increase its fame by giving another one of its famous Faculty Recitals, introducing to the public its two new instructors, Miss Wolfe, in voice, and Miss Barnes, in piano. To say that the audience was well pleased with the work of both the young ladies, but mildly expresses it. Mr. Oliver and Mr. Hey also were found not to have lost any of their former popularity and were very warmly received The crowd in attendance and their undivided attention spoke only too well of the high appreciation of the Recital. The following is the program as given:

Miss Phyllis Wolfe, Soprano.
Miss Regina Barnes, Pianist.
Mr. George W. Hey, Violinist.
Mr. F. Arthur Oliver, Accompanist.

Reinecke—Ballade. Op. 20.
Nevin—Doris.
(Violin Olbigato by Mr. Hey)
Strelezski — Serenade. Op. 191. No. 4.
Preyer — Canzonetta. Op. 40. No. 2.
Schubert—Scherzo No. 2.
Meyerbeer—Lieti Signor
(Page's song from Le Hugenots)

Franz Ries—Adago from Opus. 9.
Henschel—Spring.
Schubert-Liszt—The Erl King.
Lohr—To my First Love
Allitson—Love is a Bubble.
Wilson — O, the Pretty, Pretty Creature.

After the first two numbers every one felt that certainly with such a faculty as the four that were there the musical department would certainly have a greater growth this year than any year M. A. C. had ever known. But the students and audience as well, must remember that they need the help and co-operation of each and every one to keep up the high standard already attained.

The music rooms have been changed to the rooms north of Assembly Hall instead of south and refurnished, so that it is a pleasure for one to enter them or to invite others to see how comfortable one can be when taking lessons at M. A. C.

Faculty Department

The Faculty department of the Exponent was established last year at the suggestion of the general science committee. This committee recommended to President Hamilton that some medium of publication be provided whereby the high school teachers of the state could receive certain information that some of the college departments wished to communicate to them. The president immediately arranged with the Exponent staff to reserve a few pages for this purpose in the college paper published by the students.

The department of physics was the first to take advantage of this arrangement by publishing an offer to all high school physics teachers of the state. In effect this offer was that the departemnt would calibrate any physical instrument or determine the constant of any piece of apparatus in use in a high school free of charge. This offer refers to such as the following: Thermometers, set of weights, resistance boxes, lenses, mirrors, prisms, electrical measuring instruments, etc. The department would be pleased to hear from any teacher who may find the offer a help.

The department of biology followed with an offer to send a collection of Montana insects to any high school which would pay the small expense of boxing and shipping the collection together with transportation charges. The departments of chemistry and geology made a similar proposition concerning a named collection of representative rocks and minerals.

These collections would serve as an excellent foundation for a school museum. Both of these are still open and those who desire further information are requested to write to the heads of the departments concerned.

The next contribution to the Faculty department was made by the professor of mathematics, who brought out some important matters concerning the teaching of elementary mathematics. This article appeared in the June number of the Exponent.

This year it is the intention of all departments of the college whose work has any relation to that of the high schools to contribute articles designed to be of mutual benefit both to the teachers of the state and of this institution.

There has been a marked growth and development in many lines of

study offered by the college during the past year. The services of several additional instructors have been secured, laboratories and class rooms re-arranged and new equipment purchased to enable the institution to meet the increased demands made upon its resources. The extent and character of the recent improvements are clearly given in the following statements made by the heads of the various departments.

The new year opens with an unusual amount of change and growth in the biology department.

A new instructor, Mr. Dean B. Swingle, has been added to the teaching force with the title of assistant professor of botany and assistant botanist in the experiment station.

Mr. Swingle received his Bachelor's Degree from the University of Kansas in 1900 and an advanced degree from the University of Wisconsin in 1901. During the last five years he has been in the service of the government, in the Bureau of Plant Industry, United States Department of Agriculture. During this time he was stationed for one year in California, where he was in local charge of the work of the department on the blight disease of pears. By reason of his training and experience he is peculiarly the man needed in the place he is to occupy.

Mr. Swingle will have college classes in the physiology, histology of plants, plant pathology, bacteriology as well as general botany.

In the experiment station he will conduct investigations and experiments on the diseases of Montana plants.

In his college days Mr. Swingle was an enthusiastic athlete and has never lost his fondness for foot ball, tennis, canoeing, golf, etc.

An important addition to the material equipment of the biology department was made in the construction of a new green house, attached to the experiment station building on the south side. This green house is 22x50 feet and is divided in the middle by a glass partition. One half of the building will be used as a small conservatory of plants, necessary in botanical instruction. This room will afford facilities which have been greatly needed for a long time. Material for class work, both elemetary and advanced, will be grown and prepared for class use. The other half of the building will be used as a green house laboratory and has been fitted up with tables and chairs for regular laboratory work. Students will conduct experiments with living plants, such as the influence of light, the part that water plays in the plant, the influence of electricity, gravity, etc.

Such work is necessary in an agricultural course and in the future, very strong courses in the approved botany for agricultural colleges will be conducted.

Extensive advances have been made in the bacteriological equipment and a class of eight students is taking this course this year.

Along with all of the other scientific departments, the department of chemistry has been experiencing a regular growth. Last year the increased attendance in the chemistry laboratory necessitated the division of each of the desks and the formation of two sections so that the students could work aternately on different days at each desk. All of these desks are now occupied and several students have been placed in the old quantitative laboratory along with the advanced students in inorganic and organic chemistry and those taking the work in food chemistry prescribed in the domestic science course.

The crystallographic work and the quantitative analysis has been transferred to the basement where a new laboratory has been opened up. The new location for this work is eimnent-

ly satisfactory as it is quieter than the old laboratory and further removed from any fumes that might escape into the room from the preparation work.

Mr. Burke, who, as instructor, was in charge of this work last year, still retains it, but has been advanced to an assistant professorship and has been put in charge of some of the advanced work in inoragnic chemistry. The elementary chemistry has been placed wholly in charge of Mr. Frank Ham, who took his Master's degree in science at this college in 1905.

The practical value of the study of organic chemistry which is in charge of the head of the department is rapidly becoming realized by students of agriculture and of sanitary and domestic science. The work is now prescribed in the agricultural course as well as in the course in chemistry and in a somewhat modified form it is taken by the students in domestic economy.

The work in mineralogy which is also in charge of the head of the department of chemistry is at present being conducted in the museum of mineralogy and geology. No institution of learning in the northwest has a larger collection of mineral with which students may make comparisons. This work is of much importance to agriculture in connection with the study of soil fertility.

Only a few minor changes are to be noted in the physics department. The equipment has been improved by the following additions: An earth inductor, an Ayrton shunt, apparatus for the laws of impact, an additional supply of universal clamps and supports and a Wilson electroscope. This latter instrument together with the radioactive material and a variety of Crooke's tubes already on hand, improve the facilities for the course in radioactivity and allied phenomena to be given this year to the general science seniors.

The advanced students in the mathematics and physics group are manifesting considerable interest in "The New Movement Among Physics Teachers." This movement is headed by Dr. Mann of the University of Chicago and has for its purpose, the preparation of a suitable syllabus for the high shool physics course and the defining the physics unit. These students are now studying the problems of elementary physics teaching. Some of the recent tendencies in physics instruction were published by the department in the October number of the Inter-Mountain Educator.

During the past year a marked increase in the number of agricultural students has made several changes in the course and increases in the teaching force necessary.

Courses are now offered which give students special training in animal husbandry, dairying, horticulture or agronomy. The work of the first two years is identical in all branches, the student giving special attention during the third and fourth years to the spceial line selected.

In place of the preparatory agricultural course and the two years short course, a high school agricultural course is now offered. This course consists of three years of six months each, beginning October 15th and ending March 30th. For admissioon to this students are required to have finished the eighth grade or its equivalent. The course is designed to offer training along applied lines to those who are not fitted or do not desire to take any of the regular college courses. The work presented will be practical and it is the belief that this course will fill a useful place in the development of the agriculture of the state.

The rapid development of the experiment station and farmers' insti-

tute work has made it necessary for Director Linfield, formerly professor of animal husbandry, to turn the immediate charge of this work over to Professor Robert Clark. Professor Clark has occupied the chair of animal husbandry at the Utah Agricultural College during the past four years and his work at that institution shows his marked ability along his chosen line. Before beginning his work in Montana, Professor Clark will spend several months visiting the institutions of the eastern and central western states, becoming acquainted with the very latest methods pursued by the larger institutions in their management of the animal husbandry work.

Mr. A. P. Anderson, instructor in civil enigneering, will have charge of the farm mechanics and irrigation instuction, this coming year. The farm mechanics has to do with a study of the machines, drains, and fences of the farm. This is a new branch but it is believed will be a very useful one.

A number of improvements have been made in the dairy department. All of the firms dealing in separators have exchanged the old machines for their latest models. A Miller-Tyson pasteurizer has been added to the equipment, besides the department is securing a milking machine from which good results are expected. With these additions the dairy is model, up-to-date and particularly adapted for either creamery or farm dairy instruction.

That the practical side, the industrial phase, of an engineering education appeals to the student and to his parents is shown in the yearly increase in the enrollment for shop-work and by the genuine earnestness with which the fifty-two students already enrolled take up the details of their engineering practice. Not alone, however, do the engineering students realize the importance of knowing "how" as well as "why," but the majority of the boys who have completed the first year's in the short course in practical mechanics are planning to return, some to complete the course, others to enter one of the four-year courses, which goes to show their appreciation of what may be gained even in a limted time.

A shop attendance considerably larger than that of last year, when more than seventy-five were enrolled, is expected, and to make room for this increase it has been found necessary to build a large addition to the shops, which will be completed December 1, 1906. This addiiton will provide quarters for the wood turning lathes, planer, saws, jointer and other wood working machines, and accommodations for the advanced work in pattern and cabinet making. A sufficient number of new benches to accommodate thirty-two students at each shift will be built for the beginners in wood work.

In the blacksmith shop the eleven down draft forges, which are in use every day, will be supplemented by the addition of several new ones. These probably will be built at the shop during the year.

In the machine shop the students are overhauling and aligning the lathes, preparatory to making tools for shop use. Castings for a 20 horse-power steam engine are at hand. and the engine will be built at the college shops by student machinists. When finished it is to become a part of the laboratory equipment of the mechanical enigneering department.

For the boy on the ranch as well as for the engineer, a working knowledge of shop practice finds every-day application; and the opportunities open to one who has completed the work make it well worth while.

The civil engineering department has, within the past year, moved into the rooms formerly occupied by the business departmet. Two class rooms and one large draughting room have thus been provided. Although the equipment provided during the summer, was considered ample to meet all requirements, the number of students registering in this department has made it necessary to add draughting desks to the full capacity of the room. It is expected that the new, one year course, known as the "Water Commissioners Course" and added to the work of this department will tax the capacity of the equipment and rooms to their utmost. This course was considered necessary after the professor of civil engieering had visited several parts of the state, ascertained the demand for young men capable of measuring streams and ditches, also discovered the astonishing lack of accurate knowledge upon the subject by the average Water Commissioner. Under the law of the state the Water Commissioner is appointed by the court and is entitled to receive five dollars per day for his services during the entire irrigation season. Not only is the course designed to teach the methods of measuring water, but a sufficient knowledge of plane surveying is given the student to enable him to use the engineer's level and lay out flumes and ditches. Irrigation law is also a part of the course, and sufficient credits are allowed to enable the student to elect from other courses such studies as he may feel he requires to perfect his work. The course requires a preparation equivalent to the public school eighth grade, and offers a possiblity to the self-supporting student to receive increased wages during the summer months to enable him to complete some of the longer college courses. The course also offers to teachers of public schools a possible plan of making the summer vacation more pleasant and profitable. Several of the Water Commissioners of the state have signified their intention of taking the course.



Owing to the abolition of foot ball the beginning of the term is somewhat lacking in that form of athletics that is intercollegiate. However, the freshmen and sophomores promise the school a little sport in the line of inter class foot ball just to raise a little excitement and to illustrate the principles of the new forms of the game. Nothing will be done in the intercollegiate sports until basket ball season opens and then numerous games are to be played between the different schools of the state. An unusually strong team is looked for in the college on account of so many new students entering who have had experience in that line with the various high schools of the state, and because we have one of the best halls in the state to play in and if the old axiom still holds true, "Practice makes perfect," then we certainly should be perfect.

If you are interested in any line of athletics, the hall and grounds are free but in as much as you are interested in your special line don't fail to patronize the games of the others.

EXCHANGE

We have only a few exchanges this month as most of the papers have not yet begun to come in, and this may be a good opportunity to say a word about the importance and purpose of this column.

Our exchange is the sole means of communication between our college, as a college, and other colleges and universities. The man who feels no interest in his fellow beings, has nothing in common with them, does not interest them or they him is beyond question a failure. And just so with the college, it is a success in just so far as it can keep in touch with the outside world and especially with its fellow workers, the other colleges, to help them and receive help from them. It is the purpose of the exchange column to be a channel through which we can communicate with other schools our difficulties, triumphs, laughter, tears, epxeriences, etc.

Miss Sanford—Yes, Mr. Fielder, I'll be yours on one condition.

Fielder—Oh, that's all right. I entered Harvard with six.—Ex.

Although foot ball is at present under a ban at our college it may be well to keep up our interest in what other schools are doing along that line. In the Michigan Agricultural College between 60 and 70 candidates have reported for practice. Ten games have been scheduled and this year promises to exceed all preceeding years. The foot ball team of Whitman College, Washington, also expects a good team as most of the old men are back and many new men interested.

Our Y. W. delegates stopped over to visit the M. S. U. on their way home and learned by experience that little children should be seen and not heard.

Missoula also epxects a fine foot ball season and the championship of the West.

"I see that there is a movement on foot to forbid the marriage of all those in any way weak minded or degenerate."

"Oh, John, isn't it lucky we're married."

Yale, Harvard, Cornell and Pennsylvania are all looking forward to a good year in foot ball.

Boston Technique College has a freshman class of more than 250 members.

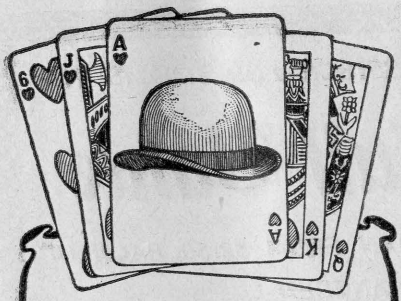
At Stanford 361 freshmen were enrolled in one day.

It seems that our's is not the only institution where the '10s are in evidence. At Stanford 200 men engaged in a Soph.-Fresh. rush which lasted for half an hour. It was the first one held there for several years.

If first appearance counts for anything the "Lombard Review" and the "Oberlin Review" are going to have a very successful year.

Sheet Music. L. E. GAGE'S.

A word to the faculty and students regarding your footwear. We carry the largest stock of Shoes in Bozeman. We feel we can supply your every want in Shoes; all we ask is your Shoe Business, we have the styles, quality, and Price is Right. Yours for Shoe Business, J. H. HARRIS & C., The Shoe Men.



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John Walsh

Stag Reception

The Y. M. C. A. reception for the young men of the college took place in the domestic science rooms on Friday evening, September 28. About fifty, new and old, were there in good time to share in the fun. The energy exerted in the hand shakes, the freeness of conversation and the smiles on the faces led one to surmise that each were meeting old-time acquaintances.

As the boys entered the door they were met by a professional at his trade and the trousers of each were adjusted to the latest fad. After some time of jovial chatting, the big game, "Hot Hand," began. This was kept going with much zeal and interest until the time for the program arrived. Mr. Lorentz, the pres., told the boys of the threefold purposes of the association, all three of which are symbolized by the closed triangle on every Y. M. C. A. pin. His closing remarks were words of welcome, extending to each an invitation to attend and participate in the various branches of the association work.

The boys were addressed next by Prof. Brewer, who urged them to form the best of habits and principles, as these would largely determine their success, both in college and out. He also earnestly advised them to ally themselves with that force which stands for the higher and better things in life—The Y. M. C. A.

The next number of the program

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COLLEGE SUPPLY HEADQUARTERS

was rendered by the social committee, each doing his part gracefully by serving the best ice cream and cake to be had. Were they encored? Sure thing. One waiter, Mr. Bec—, keen for smiles—as he always is—planned for them on this occasion. With a little research about the D. S. Dept. enough costume was obtained to make his disguise so complete that the boys smiled upon the WAITRESS in perfect ecstasy.

By 10:30 all were on their way home, some regretting that they could not attend an occasion of this kind for another year while others were sorely mindful of the possibility of their never attending, again, a young men's reception at their Alma Mater.

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Wise and Otherwise

Any communications addressed to "IT" and placed in the Exponent box in the Library, will be carefully considered and greatly appreciated.—"IT."

Keep your eyes open for the Second ANNUAL Faculty reception to the students.

The health officer reports the students in worse condition, physically, this year than usual. Cases of heart affection are quite frequent and of the contageous sort. Several cases which promise to become chronic have been noticed.

Freshies, if you don't want people to know how green you are, don't use any more paint—try something new for a change.

If you haven't found out who are Seniors and who are Freshies, just notice the conduct in the library, remembering that the '10s have learned that "Children should be seen and not heard."

Freshies, when you need any help hunt up a Junior. Although they are few and far between they are very much in evidence.

Why is the Soph. class so much like a cow's tail?

Both grow downhill.

After sizing up the Freshman class, President Hamilton has decided to buy a new carpet for the sanctum.

What the New Arrivals Want to Know

How long "Pete" is.

Why the faculty is excused from assembly.

What the carpet act is.

Who is referred to by the name "Prexy."

Why the Juniors don't play foot ball.

Where the Seniors got their dignity.

Why is a street car.

Why the boys all go together.

Why this page is called "Wise and Otherwise."

Why Prof. Tallman should have an M. D. attached to his name.

Montana Agricultural College

General Information

The location, in Central Montana, in the famous Gallatin Valley, covered far and wide with grain fields and hemmed in with lofty mountains, is unsurpassed for beauty, health and convenience. Bozeman is a city of homes and churches, with a wholesome moral environment. It is a most desirable residence city for families who wish to educate their children. Expenses are moderate, and there are all the conveniences of a modern city.

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4. Academic, Manual Training and Domestic Science.
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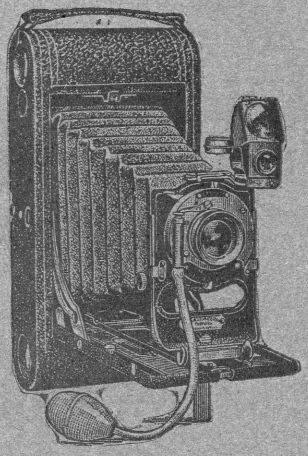
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