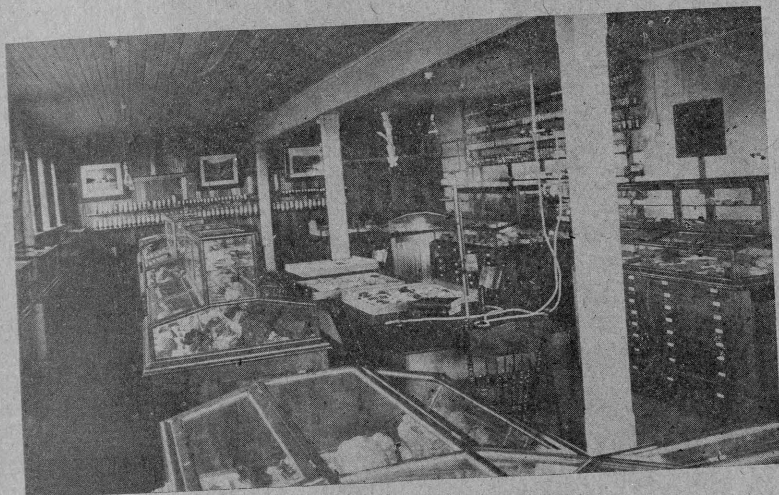


THE EXPONENT

Volume XI

Number 7



Mineralogical Museum M. A. C.



APRIL 1907

BOZEMAN MONTANA



Mallory Cravenett Hats For Men

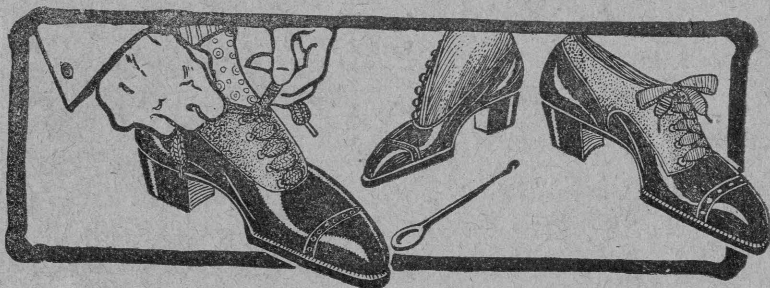
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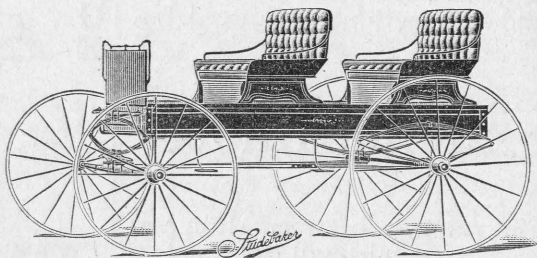
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The Exponent

VOLUME XI.

NUMBER 7.

WHOLE NUMBER 94.

BOZEMAN, MONTANA, APRIL, 1907.

The Occupants of Mrs. Bates' "Furnished Rooms"

It was dusk. A drizzling September rain beat steadily down with a soft, rustling patter on the leaves of the lofty maple trees that lined Third avenue. Here, traffic had ceased save for an occasional delivery wagon that whirled past the corner where a dingy street lamp sputtered out its dim light. Under a huge, cotton umbrella, two bewildered girls picked their way over the muddy crossing.

"Say, Jessie, I believe this must be the place, See! It says 'Boarding House'!"

Mrs. Bates' 'Boarding House' was a great, square, imposing structure, with huge window blinds and a broad veranda, that extended across the entire front. It had once been a dull red, but was now sadly weather-beaten and in places the paint had been scratched off, a preparation for repainting made by its owner, years before the war. To anyone with a vivid imagination, the house bore a striking resemblance to Mrs. Bates herself, its wide front and lofty cupola, the exact likeness of its occupant's broad cheeks and crowning topknot. It might be as well to say here that this was not a boarding house, but Mrs. Bates with the shrewdness of the vigilant landlady thought it sounded so much more elevating than "Furnished Rooms," that it was with the view of renting her rooms that she had had this gilded sign placed over the front door.

"You ring, Sarah!" exclaimed the younger of the two girls, "and I'll hold the umbrella! Have you got

everything? Here, give me the band-box! Set the satchel down! For goodness sakes, you haven't gone and lost the pillowslips and towels?"

"Be you the ones that is goin' to rent the rooms," asked Mrs. Bates coming in answer to the loud peal of the brass knocker. Well, take off yer rubbers and come right in—Si and I hev' just set down to supper, but seein' as it's the first night I suppose you can eat with us. These are them girls that's goin' to the 'Normal,' Si!"

"Heh?"

"These are them girls that's goin' to the 'Normal'!" shouted Mrs. Bates, dishing out two extra saucers of cranberries. Si looked up out of the corner of one eye. He was a wheezy little gentleman, who silently nodded approval to all his wife's words and coughed only when she said he might cough.

"I'd like the dollar a week in advance," continued Mrs. Bates, "the last ones that was here went off and I lost two dollars—Si Bates! don't eat with your knife!"

After supper Mrs. Bates led the way up the narrow, rickety, back stairs, and unlocked the door to the girls' rooms. In one corner of the small, dingy kitchen stood a rusty stove, with two lids, and here a tea kettle with a saucer for a cover and a weak-handled coffee pot occupied the dilapidated reservoir. On the smoky wall behind the stove hung a single frying pan and a blackened kettle, while a row of "Dr. Price's

Baking Powder" cans served as a kitchen cabinet.

"Here's the dish cupboard," explained the landlady, opening the one-hinged door and displaying a row of cracked cups and as many similarly cracked plates, "and you'll have to replace every bit of chiny that gets broke!"

"Guess you girls had better have this bedroom and the Budlong girls and Annie Elston can have the big one when they come," rattled on Mrs. Bates, as she squeezed herself between the door and the old, four-post bedstead, which had seen its best days even in the kitchen bedroom down stairs. "Well, I guess there isn't anything else, only you girls can leave the key down stairs every day and I'll come up and see that you've cleaned everything up—Good night!"

Nearly a month had passed since Sarah Burdick and Jessie Collson had hustled about, getting ready to go away to school. It was supper time up in Mrs. Bates' "furnished rooms" and six hungry girls crowded about the red, oil cloth covered table, bearing three "Swift's Pride" pails of milk, three plates of bread and butter and three dishes of potatoes. How to cook the potatoes in the one kettle had been a question of great import, but it was finally decided that the Budlong sisters should peel one streak around their potatoes; Sarah and Jessie, a half of their's; while Annie Elston announced that she and Nellie Budlong wouldn't peel their's at all.

"Here's your coffee, Jessie, better look out 'cause it's hot," and Sarah passed over one of the handleless cups.

"Oh Gee! I should say so!" Jessie's grasp loosened, the cup crashed to the floor and a stream of coffee poured off the table.

"Well, I suppose I'll have to buy a new cup." Jessie moved over to avoid the coffee. "But I think it's

mean to have to get a new one for that old cracked thing—but if I do I'll use it and have some satisfaction and that is, that the grease wont fry out when I put coffee in."

"Say, Sarah, what did the principal want of you?" asked one of the girls as she set the last of the dishes in the cupboard and slammed the door to.

"Mrs. Bates had been up there."

"Mrs. Bates! What? About our dancing? Well, I don't care, we're paying for these rooms and I don't see why we can't dance."

"She said she pounded and pounded on her wall and we wouldn't stop."

"Yes, she could've pounded all night before I'd a' stopped! The old snoop! It makes me mad every time I think of last Sunday night! I know Charlie Perkins was goin' to ask to take me home, and just then she had to come up and ask if I wasn't about ready."

"I guess I'll go to bed," yawned Jessie as she slammed her rhetoric shut.

"So'm I," said Nellie, flopping herself down on her cousin's bed and gazing at a brilliant chromo of "Evangeline and her Cow."

"Get off of that bed, Nell, can't you hear it squeak, it'll break down if you don't look out! It cracks and rattles so, I'm scared to turn over at night."

"That makes me think of the time ma tells about when she and pa were first married and her cousin took the slats out of the bed."

"Say, Jessie! What kind of powder does Sarah Burdick use? I think its just fine and I want to get some—you're on such good terms, she'll be sure to tell you."

"But, I wont tell you, though," coolly replied Jessie, brushing her hair back with a wire brash. "Gee, this digs just like a curry comb."

"Oh, Jessie, I'll let you wear my ring all this week—please do."

"It's magnesium."

* * * * *

"Well, isn't that cheek!" exclaimed Jessie Collson one night, as she came home from school and viewed the result of Mrs. Bates' daily visit. Her cherished rosebud cup and saucer had been replaced by a cracked, handleless one.

"You can't get ahead of old Batesey! There isn't any use o' trying. Look at Frank's powder! Isn't it a fright! She must've got the wrong kind because it's all streaked—and if she hasn't gone and used one of my good red stockings to put it on with too!" Nell drew that article of her wearing apparel from under the bed.

"Isn't it about time we were having our company?" asked Sarah emerging from the bedroom with a gossamer and Derby hat.

"Tuck your hair up—and go close to the window—and talk loud," were a few of the final directions.

The front room of the "boarding house" was lighted, the heavy blinds were swung back, while within Mrs. Bates silently scanned the "Evening Tribune." A tall figure with a Derby hat and cane passed in front of the window and soon heavy footsteps sounded on the stairs. Mrs. Bates

rose and took her position at the key hole.

"Why, Hello Charlie! Is it you I'm so glad you've come! Come right in!" It was Jessie's voice.

"Would those girls have a boy come up there," thought Mrs. Bates, as she listened intently, and then opened the door and crept softly up the stairs. She rapped and went in. There wasn't any boy here surely! The six girls were grouped around the table.

"Got company?" inquired Mrs. Bates glancing nervously around.

Jessie giggled and dodged behind her book. "Nope I haven't seen any."

Mrs. Bates fidgetted about, looked into the bedroom and even peeked under the bed. "Didn't—some—boy—come up here," she gasped, her face drawn to nearly twice its length.

"Sarah came up but there wasn't any boy here."

Mrs. Bates went down.

"Didn't—some—boy—come up here," drawled Jessie, that night as she tossed her shoe across the room.

A giggle came from the two bed rooms, then there was silence, and the occupants of Mrs. Bates' "furnished rooms" fell asleep.

—H. G. F., '10.

Effects of Wet Weather

"My! what a wretched day this is! I wish I could go some place where it only rains during the night. Is there such a place I wonder?" Estelle threw herself on the large leather sofa before the window, rested her small head on her hands and looked out at the down-pouring rain. A frown passed over the pretty face, and a sigh of discontentment passed from the pouting lips. "I just hate a house like this one, stuck away off out here in the middle of an orchard. I bet if

I was building a house I wouldn't get clear out of civilization."

She looked at Ruth, who was busy at the bookcase, passing her slender fingers slowly over the top row of books, stopping only to read a title occasionally. "Absolutely nothing new!" and she shut the bookcase with a bang.

"Come on, Estelle, let's go upstairs and look out of the window. We can see over the tops of these precious trees, from there, you know. I love

Baking Powder" cans served as a kitchen cabinet.

"Here's the dish cupboard," explained the landlady, opening the one-hinged door and displaying a row of cracked cups and as many similarly cracked plates, "and you'll have to replace every bit of chiny that gets broke!"

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to watch the boats come up the river. We can see them finely, it's slack-ing up now."

"I'm sick of watching boats, especially Columbia river boats. That's all I've seen all my life. You can go and watch them if you like, I'm going to take a sleep." Estelle curled up on the big leather couch in a very comfortable position and closed her eyes.

"Yes! dear, do try and sleep a little, you must be tired, you only had

about ten hours' rest last night, while the rain was gently falling on the roof. Well! Sweet dreams! But if you are not going with me, I am going to take The Mill on the Floss upstairs with me. I've read it at least four times but always on clear days, now I'll see how it goes on a damp day. It has a nice wet ending." She glances again at the reclining figure. "Estelle—Stell—joy, that girl's asleep!"

—D. '10.

Calendar--March

Friday, 1—Mrs. Marshall addressed Assembly.

Saturday, 2—Basket ball game, M. A. C. girls vs. Helena Business College girls.

Friday, 8—B. B. Law addressed Assembly. Basket ball game, M. A. C. vs. Deer Lodge.

Saturday, 9—Philomathian and Arena.

Monday, 11—Paul Gilmore played in "At Yale."

Tuesday, 12—Ralph Parlette's lecture in Civic League course.

Friday, 15—Prof. Trowbridge addressed Assembly. Basket ball game, Freshman girls vs. Prep. girls. Governor Toole signed appropriation bill.

Monday, 18—Jubilee over appropriation. First appearance of College band.

Tuesday, 19—Bum lessons.

Wednesday, 20—Basket ball game, Senior girls vs. Freshman girls.

Thursday, 21—Basket ball game, M. A. C. vs. Crescents.

Friday, 22—Rev. Paul Castle addressed Assembly. Choristers' concert.

Saturday, 23—Arena, Hamiltonia and Philomathian.

Thursday, 28—Choristers' concert in Helena.

Friday, 29—Prof. Burke addressed Assembly. Banquet in honor of Seniors, given by Miss Harkins.

Saturday, 30—Basket ball game, M. A. C. girls vs. Fort Shaw Indians.

Sunday, 31—Easter.



The Exponent

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

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FLOYD S. LORENTZ, '07	Editor-in-Chief
FRIEDA M. BULL, '07	Assistant Editor-in-Chief
AMY M. COOKE, '08	Literary Editor
AGNES MOUNTJOY, '07	Exchange Editor
LOUIS ALLARD, '10	Athletic Editor
JUNE HARTMAN, '10	Local Editor
IRVIN MOUNTJOY, '08	Business Managers
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Subscription fifty cents per annum in advance; ten cents per copy. All matter must be in by the first of each month. Address all literary matter to the Editor-in-Chief, and all business communications to the Business Manager.

ENTERED IN BOZEMAN POSTOFFICE AS SECOND CLASS MATTER

Editorials

The next issue of the Exponent will be the last one this spring, and we hope to make it the best one of the year. It will be much larger than usual, containing pictures of the graduating classes, athletic teams, etc., and articles by the graduates. Extra copies will be printed for any wanting them if they are ordered before the paper goes to press.

Within a few weeks the annual election of the Editor-in-Chief of the Exponent for next year will be held. This election is usually held before the final issue of the Exponent for the year, so that the new editor may have an opportunity to familiarize himself with the routine of the business management of the paper. So be prepared before long to elect a new editor.

When the calendar was started in the Exponent several years ago the

purpose of those in charge was to make the paper valuable as a record of college events for future reference. This has become to a certain degree the aim of the whole paper. We offer this as an explanation of articles which appear in the various departments of the Exponent, on subjects and events with which the students are familiar, but which must be printed if the Exponent is to be used for future reference.

The Montana College of Agriculture and Mechanic Arts has been established fourteen years. During this time the state has appropriated \$128,000 for maintenance and the federal government \$372,628, counting both the incomes from the land grant and the cash appropriations. The Tenth Legislative Assembly appropriated the following amounts: For 1907, maintenance, \$25,000; improvements, \$7,000; live stock, \$3,000; total, \$35,-

000. For 1908, a total of \$34,000. The Experiment Station since its establishment, has received from the state \$25,500, and from the federal government, \$200,000. The Tenth Legislative Assembly appropriated for its use \$10,500 for each of the years 1907 and 1908. In addition to the above amounts the sum of \$1,000 was appropriated for each of the years 1907 and 1908 for a dry farm sub-station in Fergus county; \$500 for each of these years for a fruit sub-station to be established in either the Bitter Root or Flathead valleys; and \$500 each year is allowed to Prof. Cooley, as state entomologist. In 1895 a bill was passed by the State Legislature bonding the 50,000 acre land grant for \$100,000 for the purpose of erecting buildings for the college. The sum of \$57,900 has been paid from the income from this land as interest on these bonds. The State Legislatures, previous to the Tenth, have appropriated \$29,000 for buildings. According to the provisions of House Bill No. 74, \$80,000 has been appropriated by the Tenth Legislative Assembly for the purpose of erecting and furnishing a building for the use of the departments of Agronomy, Horticulture, Animal Industry, Veterinary and Domestic Science. The building will be located on the campus just north of the present Experiment Station building; will be about 65x150 feet and three stories high. This will make it some larger than the Main building. The first, or basement floor will be occupied by the departments of Horticulture and Veterinary Science. Attached to the building will be new, modern green houses. The second floor will be used for offices of the Director of the Experiment Station, class rooms and laboratories. The entire top floor will be given to the Domestic Science department and will contain kitchens, dining room, sewing rooms, bed room,

cloak rooms, class rooms and students' lunch room. It will be seen that the Tenth Legislative Assembly appropriated for the college and station a total of \$174,000 as against \$182,500 by all former legislatures. The college owes these very generous appropriations in the first place to the broad, liberal, and friendly spirit of the members of the Tenth Legislative Assembly. In a very essential and special way the members from Gallatin county secured these appropriations. Hon. E. W. King was elected speaker, and fully appreciating the needs of the college and the other state institutions, appointed a friendly appropriation committee. Dr. W. A. Tudor was placed on the committee and from that time until the close of the session worked night and day, planned, schemed and dreamed of nothing but the college appropriation. In all his work Dr. Tudor was ably seconded by Allen Cameron. In the senate Hon. J. C. McCarthy successfully baffled all attempts to cut down the appropriations and with the assistance of Dr. Tudor pushed the bills through that body. The visit of the legislators to the college, at the invitation of the Gallatin Valley Club, was of great value in securing the active support of members. After the bills had passed both houses came the long and anxious wait for the governor's signature. During this time, the executive board and many other citizens gave assistance, but to Hon. W. S. Hartman, chairman of the college executive board, was delegated the task of making some favorable executive action. He visited Helena and also prepared and presented to the governor a statement of the conditions and needs of the college. But the task was easy. Governor Toole took his usual broad and statesman-like view of the problem, and, as soon as the accountants at the capitol had

figured out that there was sufficient money, gladly signed the bill.

It is needless to say that to Pres. Hamilton is due much of the credit of obtaining these generous appropriations for had the stone not been started by someone it would not have rolled very far, and however much he may be-

little his part in this work there are those of us who know how much he did. The Governor signed the bill on the 15th of March. The following Monday the college celebrated--making March 18th the day of days in the history of the college.

Music Department

MISS ETHEL WIDENER } Correspondents
MISS FLORA HARTMAN }

The College Choristers won fresh laurels for themselves in the concert which they gave in the College Assembly hall, Friday evening, March 22. At their first appearance three years ago, this organization delighted everyone by their sureness of touch and refinement of interpretation; the second year they were better and this year they are best. Prof. Oliver cannot be too highly complimented upon his ability as a director. We, the audience, who receive only the finished product with its artistic blending of shades of harmony, seldom realize the extent to which genius must be mixed with brains and hard work in order to produce such results. The program was happily varied by solos from Miss Wolfe, Prof. Currier, Prof. Hey and a piano quartette by three of the seniors and Prof. Oliver. Since coming to Bozeman Miss Wolfe has won a host of admirers whose highest anticipations were satisfied by her interpretation on Friday evening. When other cities, who can only occasionally hear Prof. Currier sing, print long newspaper columns of enthusiastic appreciation of his voice, the Bozeman people smile complacently and say to themselves, "Of course we knew all that before. We expect Prof. Currier to sing magnificently." But on this particular occasion even the complacency of the

home audience was stirred by the thought that very rarely can one find a baritone voice which so combines smoothness and flexibility with sympathy and power. And when Prof. Hey played the violin, someone in the audience was heard to remark, "Well, can't he just play the heart right out of a man and then change the tune and play it into him again!" Surely, such an organization as the College Choristers is of inestimable value to M. A. C., both as a source of delight and inspiration to those who sing and to those who listen and as a means of carrying to other parts of the state news of the talent and training of which our college is so justly proud.

The last of the recitals given by the graduates of the Musical Department was given in Assembly hall on the evening of February 28, by Miss Grace Griffin, assisted by Prof. A. H. Currier, baritone, and Prof. G. W. Hey, violinist, with Prof. Oliver as accompanist. Miss Griffin is a young woman of pleasing personage and displayed remarkable technique and brilliancy in her numbers. Prof. Currier and Prof. Hey were as usual, enthusiastically received by the large audience present. Miss Griffin was the recipient of many beautiful floral offerings in honor of the event.

The program rendered was the following: Mendelssohn—Sonata Op. 45. Allegro vivace—Andante; Allegro assai—Piano, Miss Griffin; violin, Mr. Hey. Von Fielitz (vocal)—Song, *Flieder*. Chopin—(a) *Fantasia Impromptu* Op. 66; (b) *Etude* Op. 10, No. 5; (c) *Etude* Op. 25, No. 9. Remenyi-Schubert (violin)—*Serenade*.

(a) Raff—*La Filieuse* (The Spinning Girl); (b) Mendelssohn—*Prelude in E minor*; (c) Mendelssohn—*Spring Song*. Loewe (vocal)—*Ballad, the Abandoned Mill*. (a) Joseffy—*At the Spring*; (b) Schubert-Heller—*La Truite* (The Trout)

Thursday evening, March 28, the Chorister club, under the management and direction of Mr. F. Arthur Oli-

ver, gave a concert in the Helena Auditorium under the auspices of the Civic League of that city. The club was assisted by Miss Phyllis Wolfe, Mr. Geo. W. Hey and Mr. A. H. Currier. The concert was received by a large and appreciative audience, and the soloists each responded to a hearty encore. The party was royally entertained at the Broadwater Hotel until the next day, when they returned very much pleased at the result of the trip.

The vocal department, under the direction of Miss Phyllis Wolfe, will give a recital Monday evening, April 22, in College Assembly hall at 8:15 o'clock. The piano and violin departments will assist.

Faculty Department

"The National Commission on the Teaching of Elementary Physics"

The purpose of this article is to direct attention to the work that has been done by the National Commission on the Teaching of Elementary Physics. According to a recent report the commission has forty-eight members who have been elected by twelve different scientific and teachers' associations to represent these associations in a combined effort "to find out just what is wanted by the teachers as a whole for the improvement of physics teaching; and having found this out, to attempt to secure it for them."

With these purposes in mind the first effort of the Commission was to obtain a list of experiments that a large number of teachers could agree upon as being suitable for laboratory

instruction. Consequently a list of 101 experiments that have been in use or that have previously been recommended by teachers' organizations, was sent out to teachers generally. Each teacher was requested to select from this list sixty experiments that in his opinion are best suited to constitute a laboratory course for high school physics. A total of 275 teachers answered this request; 80 colleges, 30 normal schools and 165 high schools being represented in the votes which came from 38 states. The list of experiments that was agreed upon as a result of this vote is given below. The number of votes each experiment received out of the total of 275 is given, after the name of the experiment. Weight of unit volume 220;

Lifting effect of water 199; Sp. g. of body denser than water 254; Sp. g. of wood with sinker 198; Weight of water displaced 172; Sp. g. of a liquid 234; Lever of the 1st class 210; Center of gravity lever 153; Levers of 2nd and 3rd classes 163; Three forces in a plane 216; Inclined plane 202; Pulleys 172; Pendulum 247; Boyle's Law 244; Barometer 192; Testing a thermometer 242; Linear expansion 216; Specific Heat 234; Heat of fusion of ice 232; Heat of evaporation 190; Relative humidity, dew-point 150; Boiling-point and pressure 173; Wave length by resonance 202; Number of vibrations of fork 157; Phenomena of electrostatics 157; Phenomena of magnetism 203; Magnetic field with filings 241; Single-fluid cell 218; Two-fluid cell 159; Battery grouping 189; D'Arsonval galvanometer 143; Induced currents 187; Resistance by substitution 182; Wheatstone bridge 198; Electromagnet 174; Electric Bell 162; Telegraph instruments 170; Electric Motor 185; Dynamo 170; Plane mirror 245; Spherical mirrors 156; Index of glass 208; Focus of converging lens 223; Conjugate focal lengths 181; Relative sizes of object and image 191; Virtual image 144; Photometer 208.

With the above experiments as the basis of the laboratory work the Commission is preparing a syllabus of a high school course in physics that will be a guide for the class room work as well. The writer has not yet received a copy of the completed syllabus but the Commission in a recent report published a part of the syllabus and directed attention to the following points which are of importance in indicating some of the present tendencies in teaching physics.

1. The subject matter of the proposed course does not differ at all from that now given in the present physics course. Hence any of the regular texts may be used, the lessons

from the text being assigned by topics.

2. This syllabus differs from those now in use in two essential points, namely, in emphasis, and in organization.

As to the first, the emphasis has been laid on energy transformations and transferences, because these are the real subject of study in physics.

This emphasis also adds unity to the course by centering the discussion on one thing.

The organization of the course follows readily if we agree to emphasize the energy phenomena. The arrangement sketched below shows how much simpler the outline becomes when arranged from this point of view. The subject matter falls naturally under a few general principles, and many of the laws of the books are seen to be either special cases or else essential to obtaining knowledge of the energy relations under discussion. Thus the laws of the lever, the law of moments, the laws of pulleys, etc., all fall under the general work principle, often called the law of machines. In heat, the ideas of temperature and of heat-quantity, the laws of boiling, of saturated vapors, Boyle's law, and that of Charles are all subsidiary to finding the relations between heat and work. This organization also gives a continuity to the course, and justifies the introduction of many ideas which usually are introduced without justification.

3. An organization like this enables the teacher to use the scientific method, and to develop a habit of using it among the students. For example, he starts with a problem: How much work can a heat engine do under certain conditions? In the solution of this problem he has to proceed inductively and to establish and use most of the important principles in heat. If the students are interested in the problem there will be no trouble

le in retaining their interest in the steps to its solution.

4. The topics enumerated in the subheads to the general principles in the syllabus are far too numerous to be treated satisfactorily in one year. This compels the teacher to select and use only those best suited to the particular conditions under which he works. It also lays stress on the necessity of the student comprehending and being able to use the general principles which form the chief headings. This arrangement also gives the necessary flexibility to the syllabus.

5. The historical matter is introduced in such a way as to encourage laying weight on the connections between physics and the other activities. When possible, the historical matter is placed first.

6. Topics are introduced from the general experiences of the student. The attempt is made to first find a problem from his own world in which he is interested, and then to proceed in the main inductively to its solution."

The Commission has defined the physics unit and has made some important recommendations concerning the amount and quality of work that should be required in a high school course. These points are quoted below.

DEFINITION OF THE PHYSICS UNIT.

1. The one-year course in physics should occupy at least 240 periods of 45 minutes each, e. g., six periods a week for 40 weeks.

2. The work shall consist of three closely related parts, namely, class work, lecture demonstration work, and laboratory work. At least one-third of the time shall be devoted to the laboratory.

3. It is very essential that at least two of the six periods a week be ar-

ranged as a double period for laboratory work.

4. The class work shall include the study of at least one standard text.

5. In the laboratory, each student should perform at least 40 individual experiments, both qualitative and quantitative as the teacher may require, but 20 quantitative experiments, each of which illustrates an important principle of physics, and no two of which illustrate the same principle, must be written up in ink in the note book. The 20 experiments so written up should be selected to illustrate the starred topics in the syllabus. (The meaning of this may not be clear. The aims are: To allow the introduction of qualitative experiments if the teacher wishes, to allow but to discourage the experimenters in learning to use measuring instruments merely as such, to allow but to discourage attempts at determining numerical coefficients and constants, and to take the emphasis off the apparatus and put it on the observation of phenomena. How may these aims be attained?)

6. In the class work the student must be drilled to an understanding of the use of the general principles which form the chief headings. He must be able to apply these principles to the solution of simple, practical concrete problems. The teacher may omit as many of the topics in the subheads as he thinks best, provided the student is able to use the general principle intelligently and to give reasons for his belief in the validity of the principle.

7. Examinations should be framed to test the student's understanding of and ability to use these general principles as indicated in 6.

8. The teacher is not required to follow the order of topics indicated in the syllabus unless he wishes to do so."

The Commission has submitted to

teachers for their opinions, many questions of extreme importance in deciding upon uniform and correct methods of instruction. The answers to these questions show wide diversity of opinions and indicate that the problems of physics teaching are many and difficult.

Teachers were requested to state their ideas on the following points: the purpose of instruction in physics; "what is most needed to make physics more interesting, stimulating and inspiring to the students, and more useful as an educative factor?" The best methods of keeping note books, methods of reducing the subject matter of the course; the proportion of time to be spent in the lab-

oratory and class room. These questions and many others of equal importance have been taken up by the Commission.

The opinions expressed by the teachers on these matters have been carefully arranged in the reports which have been published in School Science and Mathematics and in the School Review, and from these journals the writer has freely quoted.

The Physics Department of the College has secured some extra copies of the reports of the Commission and will send copies to any physics teacher of the state who expresses a desire to have them.

—W. M. COBLEIGH.



M. A. C. vs. M. C.

The decisive basket ball game of the season was played in the drill hall March 8, with Montana College. In Deer Lodge our team was defeated by a score of 32 to 22, so there was little doubt in the minds of our supporters but that the game would be a hard fought one. The college bunch of rooters got busy and came to the game with a new lot of yells; everywhere enthusiasm was in evidence. M. A. C.'s team knew what was expected of them by their audience and from the final score no one was disappointed except the Deer Lodge supporters. The teams lined up amid the cheers of the onlookers: after a short scrimmage M. C. was given a free trial at the basket from an M. A. C. foul, but failed. Then the Aggies woke up and threw a series of difficult field baskets, thus giving the farmers quite

a lead which they did not fail to increase from time to time. The score of 23 to 6, in M. A. C.'s favor, ended the first half. At the beginning of the second half Deer Lodge warmed up for a short time, but it was soon outdone when the boys behind the Golden A's got down to their quick, steady plays. Throughout the game no individual plays were in evidence on the part of our team, but the usual steady team work which characterizes M. A. C.'s plays. Schurtz, for Deer Lodge, tried several long throws for baskets, but Penwell always happened along about the right time to spoil the throw. This game which decided the championship of the state of Montana, ended in a score of 18 to 35 in favor of the Aggies. M. A. C. again holds the state championship for another year. Lineup: M. A. C.—Forwards, Hart-

man, Penwell; center, Griffith; guards, Keeler, Allard. M. C.—Forwards, Densmore, Patterson; center, Valitan; guards, Schurtz, Hoss.

Seniors vs. Freshmen

Wednesday afternoon, March 20, the fair members of the Senior and Freshman classes contested upon the basket ball field for the honors of their respective classes. It was an interesting game from start to finish and not many errors were made considering the fact that the majority of the girls were new players. The first half closed with the score 8 to 10 in favor of the Freshmen. In the second half June Hartman took Lucile Mountjoy's place as forward. In spite of the hard playing by the younger team the Seniors raised the score to 17 against 13 for the Freshmen before the end of the second half. Line-up: Seniors—Forwards, Bell Osborne, Annie Breneman; centers, Lois Hartman, Bessie Thorpe; guards, Agnes Mountjoy, Maud DeMuth. Freshmen—Forwards, Lucile Mountjoy, June Hartman, Mildred Livingston; centers, Elizabeth Swan, Hattie Thorpe; guards, Helen Fisher, Hazel Fox.

M. A. C. vs. Crescent Team

In the college drill hall March 21st, undoubtedly was played the fastest, most interesting and scientific game of basket ball ever pulled off in the state of Montana. The contest was between M. A. C.'s boys' team (champions of Montana) and the Crescent Five Team, of Chicago (champions of the world). I say champions of the world, because this team on December 21, 1906, defeated the Rochester Y. M. C. A. team, which is the only team this year that has defeated the Buffalo Germans, the holders of the world's championship. The three latter words probably sounded pretty big to our boys, when just before beginning the game, referee Flager an-

nounced to the audience to please remember that the game was between the champions of Montana and the champions of the world; and possibly the words may have worked slightly on their nerves, but the countenance of each player wore and the vim with which each player took his position on the floor beside his respective opponent proved to the spectators that each was as eager for the contest and its honors as were the onlookers eager to watch it; and this is not saying little for never before was the hall filled by such enthusiastic and true lovers of basket ball sport as on this occasion. While the Bozeman lovers of this interesting game had been convinced already by previous successes of the team that the M. A. C. boys were skillful ball tossers, swift of feet and enduring, and although they had not seen our boys beaten up to this time, yet they expected the home team to be defeated, and for this view the Bozeman players are most grateful. The game was marked from beginning to end by brilliant plays on both sides, consisting of long and rapid, short and snappy passes, swift changing to advantageous playing positions and true and spectacular basket throwing. To pick out stars from the home team would be quite impossible, for Hartman, Penwell, Wilson, Allard and Keeler, one and all, were in the game all the time and each by their individual characteristic playing and all by their splendid plays combined into team work kept their agile opponents guessing and going some, and repeatedly brought forth from the spectators cheers which seemed at times to cause perceptible vibrations of the walls. But the cheering was not one sided, and of such an action a Bozeman audience has never been guilty. The Crescents made very pretty baskets, such long and accurate throws for it, and always they were greatly

applauded for it. In the second half the plays were remarkably fast, and precious little energy was erroneously lost on either side. Our boys were at their best by the beginning of this half and now realized that the world's champions were merely ball players — not inconceivable freaks. While they did not lose sight of the fact that they were traveling in fast company, yet their hopes for a closer score than at first thought of grew brighter and brighter and when the whistle blew for the close, the score showed a realization of their hopes and declared them winners in the second half over the champions of the world by a score of 16 to 13, showing a victory by three points in the second heat. The total score, however, was 33 to 25, in favor of the Crescents.

Line-up: M. A. C.—Forwards, Penwell (Cap.), Hartman; center, Wilson; guards, Allard, Keeler. Crescent—Forwards, Young, Orr; center, Hussey; guards, Osborn, Lee. Field baskets—Hartman, 5; Penwell, 3; Wilson, 1; Orr, 2; Hussey, 8; Osborn, 4; Lee, 1. Fouls thrown—Hartman, 7; Orr, 3.

M. A. C. vs. Fort Shaw Indians

On the evening of March 30, the girls' basket ball team played the Fort Shaw Indians in the drill hall. The hall was packed far beyond its seating capacity, for a good game was expected and no one was disappointed. From the moment the game started to its finish there was not a time but what the ball was in fast play at one end or the other. The first half ended with the score 3 to 2, in our favor. In the second half the endurance of the Indian girls prevailed over that of their fairer sisters and before the close of the game they had raised the score to 5 to 8, in favor of Fort Shaw. In the latter part of the second half Miss Morrison took Miss Mountjoy's place as guard. Miss Mountjoy was

sick before the game and should not have gone into it, but she stayed with it as long as she could. This game was without doubt the fastest girls' game of the season, if not the fastest girls' game ever played in Bozeman. Even though the M. A. C. girls were defeated they are to be congratulated upon their playing, considering the fact that three of the players on the Indian team played on the team that was once champions of the world. Line-up: M. A. C.—Forwards, Edna Tracy, Belle Osborn; running center, Mildred Livingston; jumping center, Mamie Alward; guards, Agnes Mountjoy, Rosaline Owenhouse. Ft. Shaw—Forwards, Katherine Snell, Emma Sansaver; running center, Rose Putra; jumping center, Mazie Longee; guards, Eliza Delorme. Miss Healey.

M. A. C. vs. Business Girls

The game on February 28th between the girls of M. A. C. and the Bozeman Business Girls was an improvement over the game played between the same teams on Thanksgiving. Both sides showed improvement in team work, as well as individual playing over the last game. Owing to the fact that the clerks have had far less practice than our team the game was necessarily a little one sided. Miss Calfee and Miss Smith did some good individual work for the Business Girls, while the college girls played their usual style of team work. The rooting was not as enthusiastic as it would have been had the boys from town showed up to cheer for their players. Line-up: M. A. C.—Forwards, Edna Tracy, Belle Osborn; centers, Alward, Morrison, Livingston; guards, Mountjoy, Owenhouse. Business Girls—Forwards, Nettie Calfee, McDaniels; centers, Marquis, Bressler; guards, Smith, Bernerd.

M. A. C. vs. H. B. C.

The M. A. C. girls played the Helena Business College girls in Helena March 15. The final score was 15 to 1 in favor of Bozeman. The game was not nearly so one sided as the score would indicate, for both

teams played hard and fast all through the game. The M. A. C. girls were given the best entertainment possible while in Helena and were shown all over the city by Mr. Hahn and the Business College students.

EXCHANGE

There are several good articles in the March Lawrentian.

In the "College World" is a good essay on The Man and the Hour.

The Literary department is almost lacking in the Pointer.

The article in The Normal Pointer on Fashionable Styles, is very appropriate just now.

The High School Review, Hamilton, is a fine all around paper.

Teacher—What three words are used most often by the Seniors?

Freshie—I don't know.

Teacher—Correct.

She sat in maiden meditation

He called on her for recitation

She stammered, blushed and smiled a smile,

And now she leads the class a mile

And this sweet girl now never crams,

He never makes her take exams.—Ex.

"What an odd paper weight you have."

"Yes, it's my wife's first biscuit."
—Ex.

"When I get to heaven," said a woman, "I'm going to ask Shakespeare if he wrote those plays."

"Maybe he wont be there," said her husband.

"Then you can ask him," she replied.

Ambitious Poet—Have you read my "Descent to Hades."

Wearry Editor—No! but I would like to see it.

Everything in the Phoenix is well arranged and deserving of praise.

Prof.—How do you know that Caesar had an Irish sweetheart?

Student—Why he went to the Rhine and proposed to Bridget.—Ex.

The Lake Breeze is a very attractive paper.

To be important is one thing; to look important is another; but to feel important, there you have the fellow who enjoys his own society.

The German equivalent for chauffeur is oberhofuagonfeueher. Take your choice.

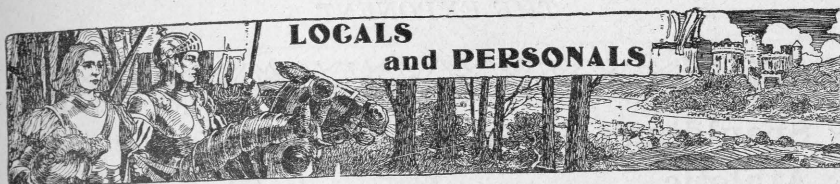
The Lonfellow number of the High School Original is very original, but awfully hard to read.

The Literary department of the March Bitter Root is fine.

He laughs best who laughs when the teacher laughs.

Teacher—Fools often ask questions that wise men cannot answer.

Boy—I guess that's why I flunked in so many exams.



The Short Course boys "have ram-
bled."

Court Sheriff has departed for his
home in Helena.

Howell Richards was a visitor in
the city a few weeks ago.

Isabel Nevarro came up to take in
the Indian game and dance.

Mrs. Carey, of Jeffers, Mont, is a
Bozeman visitor this week.

The Mandolin club gave a dance
last Friday in Mawxell's hall.

The L. T. D. boys met a few weeks
ago at the home of T. B. Quaw.

Fountain Pens for \$1.00. Ideal
Waterman, \$2.50 up, at GAGE'S.

Sarah Chaffee has accepted a posi-
tion as school teacher near Missoula.

P. J. Moore, Prep. '07, of Two Dot,
was visiting college friends last week.

Glenn Lewis received a very serious
injury a few days ago, but is improv-
ing now.

Edith Luther was called home last
week by the serious illness of her
mother.

Chas. Backes was over from Bill-
ings to spend Easter with relatives
and friends.

Put away that little hammer of
yours! Please don't knock—boost
for the band!

Pianos, Organs, Small Instruments
and Musical Merchandise, Sheet
Music, at GAGES'.

Tommy's Wife, a comedy, will be
given at the opera house on the 26th.
Don't miss it. Tickets only 50 cents.

Uniforms have been ordered for the
band and will be here before the
Missoula trip. What the boys need
is money.

Tuesday noon a meeting of the
basket ball girls was held and Edna
Tracy was elected captain for the fol-
lowing year.

Mrs. Thos. Davis, nee Beatrice
Freeman, a former college student,
and now a resident of Columbus, was
in the city last week.

Prof. and Mrs. Linfield entertained
the members of the agricultural
faculty and agricultural students
Monday evening, March 25th.

GAGE repairs your Watch, Clock
or Jewelry promptly and guarantees
same.

Rubber Quality!

Many people complain about
the wearing quality of Rubber
Footwear.

Say they cannot get satisfac-
tory wear.

This is largely due to the buy-
ing of second quality goods.

Of course they cost a little less
than the high grades, but con-
tain very little pure rubber, and
cannot give good service.

Insist on having the best, they
give satisfaction.

We do not sell second quality
rubbers.

The Willson Co.

Spaulding's Athletic Sporting Goods Standard of the World	Phillips' "Full Value" Fountain Pen Best Value Possible \$1.00 Best Value Possible Better Than Other \$1.50 Pens Phillips' Book Store College Supply Headquarters
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Bon Ton Candy.

A new line of Victor Talking Machines and 500 Records just in.
LESLIE E. GAGE, Jeweler.

The members of the faculty and their wives were delightfully entertained at the home of Prof. Cooley on Central avenue, on Tuesday evening, March 25th.

Howard Flager, '06, stopped on his way from Helena to visit his brother and sister before returning to Red Lodge. He expects soon to go to Pittsburg, Pa., to work for the Westinghouse Co.

Grand farewell tour of the famous comedy, Tommy's Wife. Positively last appearance in America. The leading lady will settle down to private life on her beautiful estate in Europe.

Prof. Tallman represented M. A. O. in a meeting held in Butte last Saturday, when delegates from the important institutions of the state met and organized a state collegiate athletic association of which Coach Schule, of Missoula University, was elected president, and Prof. Tallman, secretary and treasurer.



The new up-to-date hat of the season. From the artistic standpoint it commands attention. The originality of its lines, and its beauty of texture and finish are the work of artists. It is a "picture," an example of excellence, with many imitators but no rivals.

Every Stetson Bears the Stetson Name

We carry the Stetson,
Soft and Derby, in all styles.

JOHN WALSH



WE ARE NOW RECEIVING OUR

New Rugs and Carpets FOR SPRING

Call and see them. D. D. SMITH.

Did you hear of the Freshman play at the opera house the 26th? It's going to be fine. Not a class doin's alone but a college affair. A fine cast of characters. Several leading stars. Positively the last appearance in America. Get your seats early. Don't forget the date.

At the regular monthly meeting of the Y. M. C. A. for April, the following officers for the coming year were installed: President, Franklin Keene; vice president, Wm. LeFevre; recording secretary, Wilder P. Ellis; corresponding secretary, Charles M. Fisher; treasurer, James Bell. The treasurer's report showed the association clear of all debt, the first time in five years such a report has been made.

One of the last Chorister practices took place at Mrs. C. S. Hartman's. After singing for an hour, entertainment was provided and all entered in with the idea of having a fine time, which they all did. Later in the evening refreshments were served and after a few jolly songs they left feeling that the Hartman home was the place to be royally entertained.

The Freshman play scheduled for April 26th will be one of the leading events in the college year. A bright,

snappy affair, full of wit and humor. Specialties between acts. It is not given for the benefit of the class, as 50% of the proceeds go to the Oratorical association. The students who give their time and energy to such work are deserving of the patronage of all the students.

Try Bon Ton Candy Kitchen.

SPRING

WE are trying to make this the best drug store for you the whole year round Spring and Fall, Winter and Summer. It can serve you well in many ways at this season in supplying you with Spring Medicines, Spring house cleaning helps and Spring toilet necessities. We do not ask for your patronage without earnest effort spent in deserving it. We assure you of the highest purity of every drug or medicine purchased here, extreme quality in every drug store article. We guarantee satisfaction, absolutely to every purchaser. These merits with prices at the lowest notch, prompt and courteous treatment justify us in asking for a share—a liberal share of your patronage.

ROSE DRUG CO.
LARGEST STOCK
LOWEST PRICES

The Civil Engineering department is the recipient of two handsomely framed photographs nearly three feet square, showing machinery manufactured by the American Hoist and Derrick Co., of St. Paul, Minn. This firm is one of the largest manufacturers of derricks and hoists in the United States, and the donation has not only added to the appearance of the engineering rooms, but will prove a material aid to the students of that department.

Mr. Foley Waters and Miss Josephine Cook, the former vocal teacher of the college, were married February 28 at the home of the bride in Lexington, Ohio. They were attended by Miss Julia Martin and Mr. Arthur Stevenson, both former college students. Mr. and Mrs. Waters were given a reception at the home of Dr. and Mrs. Waters on their arrival in this city. They departed for their new home in the West Gallatin basin last Tuesday.

Just a few words on the quiet. We want to say a thing or two while we have the opportunity. Don't be alarmed, it's a Shoe talk. Our new Footwear for the new season is in and we want to say to you that we've got the best Men's Shoes and the best Women's Shoes that ever stood on heels. Shoes for every body. Shoes for every purpose that Shoes are wanted. Come see our stock. We're the whole show in Footwear. Very truly yours, J. H. HARRIS & CO., The Home of Good Shoes.

The annual Slide Rule contest for the championship medal will be held the 27th of this month. This will be the third contest; the medal is offered by Prof. Couper. The event always attracts considerable attention among the engineering students, and will this year especially because of the number intending to enter the

contest. As prize for second place the Eugene Dietzgen Co. offers a slide rule; and for third place the Owenhouse Hardware Co., a pair of pliers. Contestants must register one week beforehand with Prof. Couper.

The Monday after the signing of the famous appropriation bill at Helena was "jolliciation" day at college. A special assembly was held at 1:30, at which the College band, under the capable management of L. L. Howard, appeared for the first time and covered themselves with glory. A very enthusiastic meeting was held, after which the students formed in a procession and proceeded to Main street where the celebration continued. In the evening fireworks and bon-fires on the campus were the principal features and thus closed a memorable day in the history of the institution.

The students of the Art class have left Spain and are now traveling in Egypt. They are making a special study of the architecture and works of art of Egypt as compared to those of Spain and other countries. One of the lectures given the last month, dealt with the sculptor's work—from the first modeling in clay to the finished production, and also the process by which bronzes are constructed. As the Art class visits the different countries, they are learning the way in which to analyze pictures, the way to distinguish the work of one artist from another, and the etiquette of the studio and the art gallery.

The Arena has been unusually active the past month and two of the best meetings of the year have been held. The meeting place has been changed from down town to the College Assembly hall and this arrangement has met with general approval among the members, and the Assembly hall has been found to be much better

suit to the needs of the society than the down-town meeting place. Besides the regular program much interest has been shown in other work. Parliamentary practice has been made a feature of the meetings, and a joint debate has been arranged with the Hamilitonia society. The Arena will be represented in this by Marvin Spain, Eugene Quaw and Will Krenmer. The debate is to take place about the middle of April and will be on the question, Resolved, That labor unions are more of a detriment than a benefit to the country.

An Easter banquet was given Friday evening by the Domestic Science department in honor of Misses L. Hartman and B. Osborn, who graduate in Domestic Science this year. Pres. Hamilton was toastmaster and the following toasts were given: The Senior Girls, C. S. Hartman; The Senior Boys, Agnes Mountjoy; Seven Years of Plenty, Floyd Lorentz; The Have-Beens, Are-Nows and May-Bes, Belle Osborn; Here's To Us All, God Bless Everybody, Prof. Swingle. Also Phoebe Morgan read an Easter poem, which was greatly enjoyed, and which unlocked the secrets of the mysterious cake wherein the future was hidden. The cake was at last cut by Thomas Quaw and Miss Lois Hartman, who performed the deed with their usual skill and elegance. Those assisting Miss Harkins were Misses Lucile Brewer, Phoebe Morgan, Addie Kimpton, Edna Bull, Edna Vreeland, Erma Noble, Elizabeth Swan and Hattie Thorpe.

On Monday morning, March 25th, the Senior engineering students, with Prof. Thaler as chaperone, left Bozeman for an inspection trip of the electric power plants and sub-stations at Hauserlake, Helena and Butte. There were eight in the party when all together—which happened twice during the trip. The first and most

important points visited were the dam and power house at Hauserlake, about 18 miles north of Helena. A remarkable steel dam has been constructed here, raising the water of the Missouri seventy feet, and backing it up a distance of nearly eighteen miles. This is the fourth steel dam ever constructed; the designing and constructing engineer is James McKittrick. The water is led from the lake thus formed through the head-race and penstocks into four twin-wheel, horizontal turbines of 4,000 H. P. capacity each, which are direct connected to 2,400 volt Westinghouse alternators. This power is transformed to 60,000 volts pressure and carried to Helena, Butte and Anaconda. The entire plant is a model of up-to-date convenience and utility. In Helena among other places, the party visited the car barn, sub-station and telephone office, all of which were interesting and profitable places for inspection. Butte furnished many interesting places to visit, but owing to the lack of time only a few of the more important ones were inspected. The steam turbine plant was the main object of interest. It consisted of two 2,000 K. W. steam turbines running at 1,200 revolutions per minute, direct connected to 2,400 volt Westinghouse alternators. This plant is an auxiliary to the Hauserlake plant. The steam turbines are the only ones in the state. The air compressor plant of the Neversweat mine, the hoisting plant of the Leonard mine and the sub-station of the Madison River Co. were also visited. Every where the boys were received most cordially by the engineers and officials in charge and every effort made to show them all the details of the various objects of interest, which made the trip not only interesting, but especially instructive. The kindness was deeply appreciated. The majority of the party arrived home

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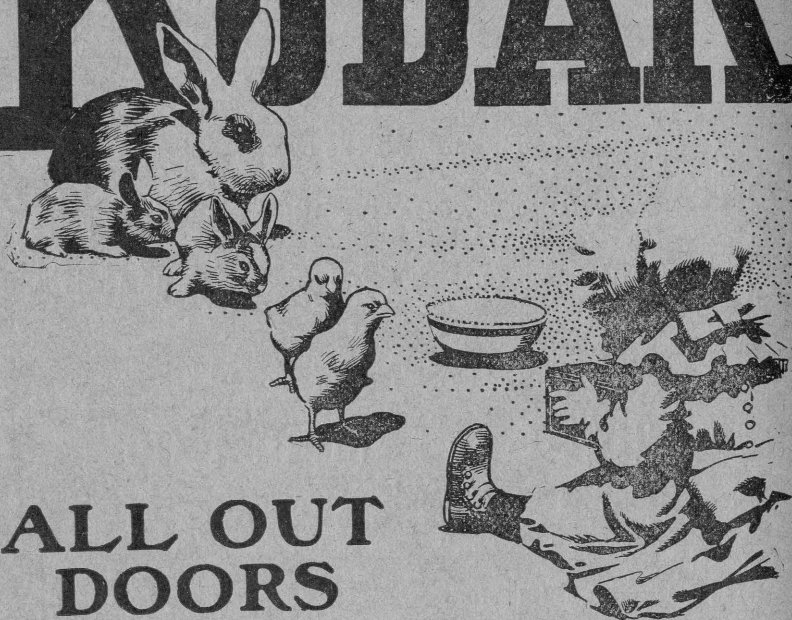
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