Baconia.

The members and friends of the Baconia, a monthly periodical, met this Friday evening with a highly instructive and interesting lecture by Dr. Rockwell on "The Microscopic World." Milk is not a continuous homogeneous liquid, as appears for the naked eye, but on careful examination with a microscope it is found to be composed of a large number of minute particles, and it is probable that even minute particles are floating, giving to it a characteristic color. These same as those found in tallow and lanolin are suspended in the liquid. All are agglomerated with the fact that oil will not fuse. How finely divided it is always collected together in large globules. If, however, the milk is boiled or shaken, each little globule will be surrounded by a coating, which prevents it from coming together again. Such a mixture is called a emulsion, and milk is classed as a hydrosol. The fact that milk is made up of two separate substances explains a fact that has been for a long time a matter of dispute. It is that it gives both an acid and an alkaline reaction. By filtration through paper, the liquid is separated out and the remainder analyzed. It consists chiefly of water, in which are dissolved the various substances dissolved, sugar, etc. The principal nitrogenous constituent is casein. If the milk is boiled or shaken, the casein is rendered insoluble, and is precipitated in the form of a white curd. This forms the basis of cheese.

The fats found in butter are the same as those found in tallow and lanolin with the exception of about 7 per cent, which is characteristic to butter alone. When the fat of butter decomposes it gives rise to acids having disagreeable odors. They are parfumed and called "mold butter.

The formation of milk takes place in the glands of the udder because the blood does not contain the ingredients of milk; in the case of butter-fat, which is not a nitrogenous, while the milk contains a large percentage of fat. The proteins commonly found in milk, as we have in no other part of the body. It is in fact the main significance of the casein. It is the blood and milk of an animal do not bear the same ratio to each other. Since milk can be produced by nature in the udder of the animal, its infant is not necessarily a perfect food for an adult. In general nitrogen must be used for building up the waste body, the muscular tissue; the fats are the heat producers, and the carbohydrates furnish energy. Now the infant needs that which will build up the body and little fat is needed to do this, and it is found in small quantities in milk.

The habit of deglutition determines somewhat the character of the milk; those inhabitants cold climates produce milk containing animal fats for production of heat. Whether the young of the animal grows rapidly or not, is dependent on the relative quantity of the other ingredients. This variation in the milk of different animals explains why one will not thrive on the milk of another. By analysis it has been determined that cows milk, if given to little children, should be diluted with water and some other milk should be added in order to make it a perfect food.

The fermentation of milk is caused by the addition of bacteria, yeast plants or some unorganized compounds. When freshly made milk is sterile, but either of the first two fermenting agents may be obtained through the air. In all cases fermentation lactic acid is formed in the reaction which takes place and this in turn causes the curdling.

On the account of the bacteria, sour milk might be considered unhealthful to give to infants. It may be said that sour milk contains less bacteria than sweet milk, or on account of the milk the bacteria may have died. There may be a number of different forms of fermentation due to the different kinds of bacteria. It has been thought by some that lightening and thunder causes milk to sour. The milk changed by scientific investigation Electric sparks or oxygen, are produced by either or both. It forms a perfect introduction to the use of bacteria. The high temperature during summer is one of the causative factors for whatever effect there may be, such temperatures being conducive to the production of bacteria. Another form of fermentation, Kephis, is important on account of the ease with which it is digested. In this form the decomposition to grape sugar, which is divided into nitric acid, alcohol, and carbon dioxide. It forms a perfect introduction to the use of bacteria.

There have been various means contrived for preserving milk; some are more successful than to be recommended. Pasteur's method was to simply heat the milk to sixty or seventy degrees in order to destroy all the bacteria. If heated much above this temperature the milk becomes a bitter taste. A very common method is to neutralize the formation of acid by some alkali; sodium carbonate is the most commonly used. In this self it is a harmless compound, but it forms in the milk lactate of sodium, and this produces sickness in children. The use of certain anti- septic has a similar effect. Pepsin is a substance that is milk partially digested, if carefully prepared is free from such compounds, but if careless ly prepared is poisonous. All prepared milk is likely to be decom posed and form injurious compounds.

In many instances the addition of milk its specific gravity is utilized. If water has been added the milk is said to have been creamed. It is from the remainder is too heavy. But if cream has been taken from the milk and water added, then a chemical analysis must be made to detect the adulteration.

A rational and chemical reaction used in such tests were shown to be the Cohn, also some mechanical devices for testing milk were shown. These made use of the fact that the transparence of the milk changes with its quality.

A report on the fatigue of children, was given by Dr. Patrick. He reported some experiences on this subject made in Germany, and in this country, the conclusion of which would show that our system of giving the school children exercise is radically wrong. This would be much more active in following the suggestion of the physiologist than America.

Eulochian.

The first Educational program of this term was attended by the usual large audience. The members of Irv. Institute were present in a body.

Miss Cleen Ottos, the outgoing president, introduced Miss Ethel Charlton, the president for the spring term. In a brief address Miss Charton explained what the real aim of a literary society should be.

Miss Kathryn Bates opened the program with a well rendered vocal recital.

A declaration, "Echo and the Puppet." By Miss Hattie Riggs, followed. The declamation being selected for several successive terms. The debate in which this selection was well given.

The next number, also a declamation, was "Jane's Conquest." This was spoken by Miss Louisa Holmes in a pleasant manner.

A piano solo by Miss Anna Barrett was heartily acclaimed. The subject of the debate was "Resolved, that the cross has advanced civilization more than the hammer." Miss Minerva Lowman, and Miss Abbie Booth spoke for the affirmative, and Miss Grace Finch and Miss Daisy Hatch for the negative.

Miss Lowman explained that the cross was symbolic of religion and the hammer of science, she stated that several great national reforms have been brought about by religion.

Miss Finch said that the hammer was the sign of industry, and that the cross would be still connected with the rank and file if it were not for learning.

Miss Bush asserted that scientists had the desire to benefit people, but that this is a religious desire.

Miss Hatch, with the best speech of the evening, closed the debate. Science was defined by her, as mean ing knowledge, from its Latin derivation. She proved that purity and crime go hand in hand with ignorance, and that, to-day, only a religion with a basis of knowledge is accepted.

The debate was decided in favor of the negative.

A well prepared speech on Cecil John Rhodes, by Miss Mabel Cook, was followed by a declaration, "Mort d'Arthur, by Miss Mittle Pfe. The speaker's voice was clear and distinct, and her gestures were graceful.

A piano solo by Miss Loula Graf closed the program.

Zetogathan.

A good sized and appreciative audience greeted the Zetas on last Friday evening. The program was opened by a vocal solo by Miss Clara Wood, which was received with hearty applause.

The literary production was a declamation by Roy Moon, entitled "The Story of the True Father." Mr. Moon deserves to be compliment ed highly for the vigor of his expression, the elaboration of his "Journals was the subject of an oration by H. W. Hansen. Mr. Han son discussed the effect that journalism has on political and on general public opinion, and closed by alluding to arbitration as one of its most desirable effects.

The debate of the evening was on the question, "Resolved, that the term of office of county superintendents should be lengthened to four years." Mr. Keefe opened for the affirmative with a somewhat radical but very logical speech, in which he showed the lack of freedom that the present term affords a superintendent.

Mr. Anderson opened for the negative with good rebuttal and good additional arguments, but did not speak sufficiently to ornament his remarks.

Mr. Ogden closed for the affirmative, with a very able speech.

Mr. Rigg, in closing for the negative, cited many instances which might be used for several successive terms. The debate in which Mr. Rigg participated.

Mr. George Barth next favored the audience with a declaration entitled "Existing Duties of the Orator." Mr. Barth entered fully into the spirit of this well known selection.

The next number, also a declamation, was "Jane's Conquest." This was spoken by Miss Louisa Holmes in a pleasant manner.

Miss Emma opened the program with a well rendered vocal recital.

A violin solo closed the program. The debate was decided in favor of the affirmative.

There are now three American schools in classic lands taking advantage of the survivals of those independent research and study in the most interesting field. One is at Athens, the other at Rome. The first is now in its second decade, and has done some very successful work in the way of original investigation of antiquities. Formerly it was under the direction of professors from various American colleges who were sent out yearly. But now it is under the permanent direction of Dr. Charles W. Woolf, a graduate of Columbia. The school has brought to light the treasures of the temple of Hera, now the city of Argos, and intends in the near future to excavate the site of ancient Corinth by the permission of the Greek Government to do so. At Rome there is a school of architecture which now is in the second year. A classical school was established there last October and is succeeding very well. It is under the direction of a mechanical engineer, and does very well. It is under the direction of an engineer, and does very well. It is under the direction of an engineer, and does very well.

The students take their classes in the Latin language, which is necessary to be learned.

The Seniors gave their play in Irving Hall last evening.
THE VIDETTE-REPORTER.

The first fall game of the season occurs to-morrow. It will no doubt be an interesting game, and those who can attend certainly will find it worth while. We hope that the beginning of the athletic season will be marked by the enthusiasm which adds so much to prospects of success. So long as athletics constitute so important a factor in University life every effort should be put forth to advance our standard in that direction. It does not lie within the power of very many, perhaps, to take active part, but so far as possible all should contribute to the success of our ambitions by taking an interest in the games and furnishing what support they can.

It is to be hoped that nothing will be allowed to interfere with the intention of our literary societies, expressed some time since, regarding the holding of early preliminary debates next year. Nothing is to be gained and much may easily be lost by postponing action. Much importance is attached to preliminary work of course, but much more good will be attained if the heavier work be done in connection with our intercollegiate contests.

The emphasis placed upon the importance of debating in a recent editorial in the Ariel, appears to us entirely justified. It is difficult to conceive of a more valuable power than that of being able to reason not only accurately but ably enough to be understood. There can not possibly be a better means of cultivating this power than in debating. As aptly pointed out by the Ariel the superior grasp of subjects, which college bred men should have, is of comparatively little avail unless it be supplemented by an ability of drawing and expressing conclusions with accuracy and perspicacity.

These well known facts seem to us to argue not alone for the increasing importance of debates, but also for the spending of more time in their preparation. All that may be said of the value received depends largely upon the time given for thorough investigation of the subject under consideration. Those facts being true it becomes evident that only by perfecting arrangements this spring can we hope to make these contests what they should be. Most of the time next year should be devoted not to work on preliminary but on final debates.

Senior Society.

Last evening Irving Hall was the scene of one of the most pleasant and unique class parties of the year, and one which will ever be memorable in the annals of class '96. The feature of the evening was a play — "A Box of Monkeys" — rendered by the following members of the class, with the part taken by each:

- Miss Holt
- Miss Morgan
- Miss Currier

- Lady Guenivere Leland
- Miss Butler
- Mrs. Coggeshall
- Mr. E. D. Thompson

- Mr. Edward Ralston
- Mr. Loyal Palmer

- Mr. Chauncey Ogletrove

Many of our readers know the reputation of those ladies and gentlemen in this line of work; and last evening's pleasant entertainment fully sustained their past reputation. Each member acted their part so well, and much was so well fitted for the part played, that individual comment cannot be made without praising highly each member of the "troop," and space forbids this. It is to be hoped that the play may be publicly rendered some time in the near future.

After the play refreshments were served and games indulged in. During the course of the evening Miss Macdonald directed some of her popular instrumental solos.

A goodly number of the class were present, and all united in hoping that the parties given in the future may be equally as enjoyable as the one given last evening.

Notice.

All those persons who have subscribed for Hawkeye '97, and who have not yet secured their books, should attend to the matter at once. The books are at the University Book Store. Please call and settle without further notice.

$100 Reward, $100.

The readers of this paper will be pleased to learn that there is at least one dreaded disease that science has been able to cure in all its stages and that is cancer. Half of Catarrh Cure is the only positive cure now known to the medical fraternity. Catarrh being a constitutional disease, requires a constitutional treatment. Half's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system, thereby destroying the foundation of the disease and giving the patient strength by building up the constitution and assisting nature in doing the work. The proprietors have so much faith in the efficacy of their powers that they offer One Hundred Dollars for any case that it fails to cure. Send for list of testimonials. Address

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Baseball to morrow.

Joe Allen was in town over Sunday.

Miss Dorothy Wickensham was in town over Sunday.

J. S. Bossert, '96, having recovered from his illness, has again commenced work.

Judge Wade failed to appear before the class in Evidence yesterday afternoon.

W. H. Brum, having completed the work on his thesis, returned home last night.

Miss Jennie Carse, of Council Bluffs, visited the University this morning.

The battle drifted today instead of to-morrow, as a ball game is to be played to-morrow afternoon.

J. W. Lycnh, M. D., left for home last night, having spent several weeks in special scientific work.

W. E. Evans, of the Vidette-Reporter, was called home Monday on account of the serious illness of his father.

J. L. O'Donnor, '99, who was called home at the beginning of the term by the illness of his mother, returned yesterday.

Word has been received from Miss Elia J. Luckenbill that her father and brother are recovering. She expects to return to school soon.

"To-morrow afternoon occurs the first match game of base ball this season, in which Cedar Rapids will cross bats with the S. I. Nation. A good game is expected and it is hoped a good sized crowd will be present.
The appearance of John Y. Crowe adds much to the attractions at the athletic park. He will remain here during the week in order to give the spirited students some great exciting lessons.

Paul Bartech left for Washington Sunday night, where Professor Nutting has secured for him a position in the Bureau of Ethnology of the Smithsonian Institution as aid to the department of mollusks. Dr. Dall, the head of the department, wrote to Professor Nutting asking him to appoint from his students a man to care for the Class, and stated that eastern colleges do not turn out men fit for such positions. Systematists and palaeontologists find the fact that eastern universities must come west to find them, and in this case to Professor Nutting, a high tribute is paid to the splendid work of Professor Nutting.

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**The Kent College of Law**

Randall & Ewell, U. S. R. R. Depot. Full term will open September 1. A few new law books have just been received and will be for sale at prices. The students are advised to pay attention to the leading journals. General inquiries are invited and inquirers will be supplied with the names of those who are leading students and law book publishers.

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**B. C. R. & N. Ry. The Cedar Rapids Route.**

Texas leaves Iowa City for Cedar Rapids as follows:

- No. 21, Passenger for Cedar Rapids.
- No. 39, Sandringham Express, leaves 8:00 p.m.
- No. 37, Cedar Rapids Express, leaves 10:30 a.m. for Cedar Falls and West Liberty.
- No. 41, Passenger for Cedar Rapids.
- No. 59, Passenger for Cedar Rapids and West Liberty.

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