The PUZZLE SOLVED
VALUE OF HIGHER MATHEMATICS EXEMPLIFIED

Professor Smith Takes a Cue from the English
Paper as a basis for a "Concrete Instance" in an Able

The application of mathematics to biology, as exemplified last evening by Professor G. Arthur Smith, before a large and attentive audience at the University, proved to be a very interesting topic. Professor Smith presented the reading of a paper by the printed text of the recent lectures of the class, "Figures depict the data, but the problem is a figure," and said that anyone who had a theory or substance could do so by the aid of statistics and a bit of mathematical juggling. Hence he endeavored to approach the subject of biology with no theory to establish but to arrive at the truth. The subject was treated something as follows:

The evolution of species has passed the "nine-days-wonder" stage of interest. Science holds good, while daily the weak are being driven to the wall. The popular items prove nothing; conclusions drawn from a multitude of individuals is a law. The application of mathematics to biology is yet in its infant stage. The individual may be simple or complex. When speaking of a character in this line of work, some distinguishing feature of a large number of cases, each case of individuals is worth the effort. The mean value is obtained by dividing the sum of the observations by the number of them. The accuracy of the observations does not double the accuracy of the general result. The mean value of the length of an individual may be simple or complex.

Next are two sets of observations corresponding. The greater is the conclusion between the subject and the relative, when one set of observations is called the subject, the other is designated as the relative. Here a chart was introduced illustrating the marked correlation between the length of the wing and tail found in a long series of adult and sub-adult specimens of the common meadow lark. Similar correlation has been shown in man between the length of the femur and the height of the individual. Males have been found to be more variable in height than females.

Then followed a number of illustrations for the application of adult brothers and sisters, which proved that the longevity of the father or elder brother of a family is greater than that of the mother or younger sister; and further that if an elder sister loses a minor brother or a son, the life of the elder sister or brother is cut short of the mean longevity for all adults. This latter remark that the preponderance is supposed to be due to the inherited tendency to certain diseases, but the solution of this problem must be left to the physician. It has been further shown that deaths from the age of thirty-five and above sixty arise from inherited tendencies, while deaths from the age of forty to fifty are accidental and natural. In correlation between parent and child sixty-seven per cent die from inherited causes.

Another chart shown by Prof. Smith exhibited the curve resulting from twenty-six thousand observations upon the mental attainments of S. U. L. students. A pronounced budge in the upper portion of the curve has a high compliment to the student body of Iowa. Indicating as it did a large percentage of excellent scholarship. May the increase continue.

WILL RUN IN DEBT

The Lecture Bureau has given out that, from present indications, the receipts will be at least a hundred dollars less than the expenses of the course, probably a venture, which is under the joint management of the Unre. College and the Zion College. The year netted a small gain but this year everything has worked against the financial success of the Bureau. Conflicting university functions, independent weather, and a set of entertainments more expensive than in previous courses by several hundred dollars had combined to bring about the deficit.

Mr. B. E. Burnes, Calkins, and Dr. Back, president, vice president and secretary of the bureau, are all clear of school and the responsibility has fallen upon the treasurer, G. E. Hill. Mr. Hill has been the best of a bad proposition and deserves credit for his efforts in what is at best a thankless position.

Hesperia

The following program will be rendered at Hesperia this evening: Music: Oratorio, Ivo Moler, "Pussy Wants a Corner," recitation, "Passion;" Extemporaneous speeches, Myrtle Barger, Frances Swincer, reading, Katharine Martin, speech, Clara Sturtevant, "Carroum Silva," music.

Basket Ball Tonight

Accompanied by a number of sisters, the house team left for Wilton Junction today to play their annual game with the Wilton College ladies. Last year the Iowa men were the only ones to administer the dread defeat to the Iowa women. This year the Iowa men are more than ready to repeat their操作 tonight.

Season Tickets

The Board of Athletic control have decided to open box rooter tickets on sale for $2.00 each. These tickets will entitle the holder to game every day on the home grounds, fourteen in all, the regular admissions to which aggregate $45.00. It makes an offer which no student can afford to pass by. Men have already been selected from every class in the university to make a thorough canvass of the student body with these tickets. A meeting of these individuals in room 13 of arts hall, Wednesday, at 4:30 p.m.

STUDENT CONVENTION

The Present Outlook Indicates the most

Pleasant and Successful Assembly

For the date of the fourth convention of the Student Volunteer Movement, to be held at Toronto, is February 16, and as it draws near, preparations are being rapidly hastened, both at the Toronto and the Volunteer office. So general is the interest in this gathering, that the sources of financial resources are available are solely taxing. Colleges and other institutions of higher learning from the Atlantic to the Pacific are taking steps to appoint large and influential delegations in cases where this has not already been done.

Interest in the city where the convention meets is most natural, its architectural beauty, its high educational attainments, and its dominating influence in the evangelical life of the Dominion combine to make it an ideal gathering place. To this city fugitives from the states, the charm of the transplanted English life and the more potent force of the English associations. It is a bit of England with something of the Sabbath atmosphere of Scotland, mingled with the spirit and enterprise of America. The student life of Toronto is likewise a unique composite of British and American ideas and customs, with which it will be most interesting to be

JAYHAWKERS COMING

WEDNESDAY AFTERNOON THE CONTEST DATE

The Father of Basketball will Bring His Pupils here to Compete with the Iowa Men

Kansas University basketball team, with a full line of victories, promises to grace the day next Wednesday on the basketball court. The Kansas team left home yesterday for a week's trip on which eight games will be played. Thus far in the season the Jayhawks have met several strong teams; they have escaped defeat, and since the Iowa team holds an equally good record, it is certain that there will be "things done" when the two teams meet. An additional interest attaches to the Kansas University men on account of the fact that the game itself originated at that institution and in which mind it first had existence, is the trainer of the present Kansas team.

The ladies under direction of Miss Morgan will give an entertainment drill just before the game or between the halves. The game is scheduled to begin at 4 o'clock prompt, Wednesday afternoon.

Knipe's Aspirations

Dr. Carl S. Williams has been formally elected as head football coach for the Pennsylvania football team to succeed George Woodruff. This puts end to any aspirations Knipe, of Iowa, may have had for the position. Knipe's known friendliness to Woodruff may have had some bearing on the selection of the Purdue Exponent.

Inasmuch as Dr. Knipe was avowedly in sympathy with the course of Coach Woodruff, it is highly probable that the anti-Woodruff faction in power that he could have hoped to be selected as the successor of George Woodruff. The so-called "aspirations of Knipe" have had their origin and only existence in the imaginative minds of some newspaper writers.

White, '94, was elected to membership in Philomathia last night.

Michigan Lacks Brotherly Love

It is unfortunate that the Athletic Association could not have held its election in the spirit of brotherly love, but evidently the Athletic Association was not wholly to blame. Perhaps brotherly love is more evident than the fact that there exists in the athletic spirit from football, track, and all such conceptions will essentially be reached un doubtedly the greatest student re action this morning, the world, has ever seen.

The local societies are making preparations for a good sized delegation to the convention. Just who the delegates will be has not been determined, but it is probable they will probably be chosen from the next week.

THE DAILY IOWAN

A Daily Newspaper Published by the Students of the State University of Iowa.

Vol.

IOWA CITY, IOWA. SATURDAY, FEBRUARY 1, 1902

No. 57

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The Daily Iowan
First Year.
No. 37

COMPRISING
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Thirty-ninth Year
The S. U. I. Quill
Eleventh Year

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The Daily Iowan will be sent to all subscribers of The Vidette-Reporter at S. U. I. Quill until ordered stopped and arrangements made. Copies for sale and subscriptions taken at the Arcade Book Store.

Address all communications to
The Daily Iowan
Iowa City, Iowan

Entered at the postoffice at Iowa City, Iowa, as second-class mail matter, Oct. 13, 1901.

Will Iowa be able to beat Kansas at her own game is the question up for decision on next Wednesday. The men who are to uphold the Iowa end of the agreement are well tried and worthy and will appreciate your presence at the contest.

Speculation about a national university is as old as the memory of George Washington, and it remained for Andrew Carnegie to resurrect the discussion by a professor of ten million of his stock in a steel combination. It is to be hoped that this material start will at least lay the corner stone of an institution that will recognize no equal in either hemisphere. By the way, some one might pipe up with a story of what became of the fund "honest George." is said to have left for the benefit of just such an institution.

It is to be regretted that the lecture course has proven a losing game. The numbers have been better than in former years and, if it has happened, were indicative of a future course more nearly in harmony with the demands of the University.

The need of an auditorium, where the student body, at least, may assemble, was never more apparent. With the limited present facilities the only way to get the present course seems to be to raise the price of the season tickets.

The next number on the course is Thomas Dixon, Jr., the strongest number among the lectures and the opera house, such as it is, should be filled to its fullest capacity.

The Dubuque Times, commenting on the "slow-up" notice given by Treasurer Gilherson, says that in making appropriations the legislature should think first of the state institutions. "They have a better claim," says the Times, than the enterprises outside of the state to which the legislature is asked to contribute $400,000. — Des Moines Leader.

Well, if the state institutions do not have a better claim on the funds of their own state than foreign enterprises, then we would excuse them; nor with Senator Dolliver, "God help the surplus" but rather, "May the Lord pity the state institutions!" for we must assert that there will be very few meetings of our legislators at which there will not be bills presented for large and generous appropriations for measures entirely without the state.

Chicago's three debaters who represented the university in the Minnesota debate each received a prize of $50 and a scholarship for one year. The second three, acting as alternates each received a scholarship for one quarter—Northwestern.

And even with this inducement held out to them the Iowa men who received nagged but their traveling expenses always found them "easy pickin.'"

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Ladies, try our $2.50 and $3.50 suits—the best in the world.
Good The Boston Shoe Store.

Iowa Pins with different colors for class or frat pins at A. M. Green's.

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Bradley Is Selected
The Reverend Daniel S. Bradley, formerly mentioned by the Daily Iowan as the probable successor to George A. Gates as president of Grinnell College, received the unanimous election of the board of trustees at that place Tuesday. Reverend Bradley is at present the pastor of the First Presbyterian Church, of Grand Rapids, Michigan. He will in all probability resign his pastorate there at once inasmuch as it is the desire of the trustees that he assume the duties of college president at once.
J. H. Main, who has conducted the college so admirably as acting president, and who has been much spoken of as a good man for this same place, has been elected dean of the faculty.

To the collegian, seated among his sofa pillows twanging the banjo in the gloaming, this whole business of reforming the universe is as simple as A B C.—George Ade.

Incoming Events.
February 3d— Basketball, Kan. University
February 5th—R. S. Anderson, lecturer.
February 8th—Henry E. Gordon, Mary S. Evans, Dramatic Recital.
February 8—Endecophane Force.

Towensend’s studio is the place to have your pictures taken for the Junior Annual.

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How About Your Feet
HOPE they are not worrying you. No man can develop the better part of his nature while his feet ache. Aside from making himself disagreeable to others he loses considerable of life’s sunshine. It gets right by him—he is busy thinking about those feet. Its good business to buy shoes intelligently. The Walk-Over Shoe is the smartest shoe for men on the market. They wear longest and look best and they feel broken in from the start. They cost $3.50 and $4.00 and are for sale here—can’t get them anywhere else in town—come and see them.

Morgan & Denton, Iowa City, la.

Pre-Inventory Sale—Bennison’s—
"Now On"
It’s the bargain event of the year. We started out right at the first, giving bargains preparatory for our inventory, February 1. Slaughtering Cloaks and all Surplus Stocks,
ODDS AND ENDS AND REMNANTS.
Don’t fail to attend this pre-inventory sale.

Attend the
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A good, thorough preparatory course for the State University. Winter term commences the first of January. Write for catalog.
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Special Sale of Sheet Music
Beginning at the 1st. of Feb., for one week. Call and see the line of MUSIC that we will sell you at
5c, 10c, 15c per copy
During this special sale we will sell March, University of Iowa, composed by Harry C. Thompson at 15 cents.

A. SUNIER & SON, Washington Street

TERSE LOCALS
L. McAlish, '93, has been elected to Irving Institute.
Pi Beta Phi initiates Miss Edna Boerner and Miss Nonie Stockdale tonight.
Grant, L. '01, who is practicing at Ida Grove, Iowa, is visiting at the university.
Miss Mary McNally, '05, is enjoying a visit from her mother of Cedar Rapids.
F. A. O'Connor, L '96, and captain of the 1898 baseball team was seen on the campus today.
On authority of a member of the Junior Annual board the '93 Hawkeyes will be dedicated to Jimmy "E." Professor L. A. Loos reports that the third installment of the $4,000 debt on Close Hall has all been collected.
The Whitney society will meet on Monday evening, Feb. 19th at 7:15 p.m. Professor Flem will read a paper on "Generalization in the Meaning of Words."
There will be a meeting of the senior class of the college of liberal arts, Monday afternoon at 3:30 in the general lecture room of the new building. The class pin committee will report at this time.
The president and the legislative committee of the board of regents have been summoned to appear before the ways and means committee of the senate on next Wednesday and before the appropriations committee of the same house on Thursday.

Our advertisers are notified that the copy for the change of advertisements must be at our office at 143 Iowa Ave., before six p.m. the day previous to the date of change.

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