# Fleming, '14, Tells C. E.'s of "Bates Road Experiment"

District Engineer for the Illinois since the fraternities make use State Highway Dept., was chief speaker at the W. S. E. meeting, held last Thursday. District No. 3, of which Mr. Fleming is oversee, has had more hard surfaced roads built future. into it than any other in the state, according to a statement by George A. Petters, who introduced the speaker.

#### Tells of Road Experiment

"The Bates Experimental Road" was Mr. Fleming's topic. The road was started in 1920 near Springfield, Illinois. It was built on uniform soil conditions, was two miles in length, and consisted of sixty-three sections of varying bases, surfaces, and thicknesses. All the known kinds of road were included for the purpose of determining which was the best. Before telling of the tests conducted, Mr. Fleming said, "The results gained from the Bates Experimental Road pertain to rural highways and not to city thoroughfares as the two types of pavement differ in many ways.

Two Theories Advanced At the time the Bates road was election followed. built two theories of road construction were prevalent. The first the- T. A. A. consists of a representative in school. ory advocated greater thickness of of all four classes, it remains necesconcrete at the centre than at the sary for the freshmen to select a man it is a very good idea. It shows a edge and the second, uniform thick- for that position. This is to be done high degree of efficiency on the part ness clear across. In testing the at their next class meeting. truth of these theories loads were | The Musical Clubs, Publications, applied day and night to the corners and the Honor "A" Society have yet of each slab or section of concrete. to select their representatives to the "It was found," said Mr. Fleming, Finance Committee of the Associa-"that the corners were broken during tion. the night. Upon further experimenting it was discovered that the edges of the road lifted as much as one-quarter of an inch off of the base at night, resulting in an unsupported edge which broke down." To ple you know. Put them in two counteract this "curling effect" marginal bar was placed along the folk and the quiet, calm, placid ones. sand. edges of the road.

#### Frost Cracks Edges

Experimentation showed that fros action heaved the outer edge up, resulting in broken cornes and longitudinal cracks. It was proved that tile placed along the road did not lower the water content under the concrete slab.

Traffic was started over the road in the spring of 1922. Drivers were held to a cetain course on the road by lines painted on the road. Two thousand trips were made by day and one thousand by night. The lighter sections broke down first and finally the heavier ones failed under the strain. Extra sections built with thickened edges and containing the marginal bar proved more satisfactory.

The marginal bar as used in concrete roads of today is painted and greased to prevent any bond. purpose is to support and carry the weight from one side to the other.

The black line down the centre of the road was originally used to cover up the iron bar joint instead of being used as a guide for traffic as it is

In closing, Mr. Fleming said, "The tests made on the Bates road only covered a few months' time but they were equivalent to fifteen or twenty years of normal rural traffic."

# ANNOUNCEMENT

cially on the part of the new stu- would be truly companionable and dents, Dean Penn wishes to have it most efficient, be quiet. made clear that the official Lost and Office. Articles which are forceful person. found should be turned in there. Students who lose anything are to inquire there for it.

Armour Chapter of Beta Psi will act as host to the University of Illinois Chapter after the Chicago-Illinois game on November 17.

544 West 79th St.

#### A.T.A.A. And Board Control In Joint Session

(Continued from page 1) ter has been left in the hands of the Mr. M. J. Fleming, '14, C. E., now A. T. A. A. It was decided, that school property and equipment playing their games, etc., this matter will rest with the A. T. A. A. in the

> Appointive Positions Filled The appointments for positions in the A. T. A. A. were then approved.

The following men were appointed: Chairman.

John R. Yount, Publicity Manager. Athletic Manager.

Manager. Floyd Ong, Chairman Reception Committee.

Robin Elected Student Secretary vis, duly elected secretary of the A. part of the staff members to put the T. A. A., it was necessary for the paper on a par with other collegiate board to select a new man. It was papers. It has become a regular suggested that the runner-up in the sized sheet. last election for that office be elected. The records showed that Clarence Robin was second to Jervis, and his paper, it is possible to use more head-Since the student body of the A.

#### POWER OF QUIETNESS

classes; the noisy, boisterous, voluble the number was less than a thou-Which kind would you prefer to meaning spend most of your time with? The latter, of course. As far as getting things done is concerned at the end of the day which class has accomplished the more. Invariably the lat-

Picture yourself a customer and enter with me a department where a lot of unnecessary loud talking is going on among the employees. A distinctly unfavorable impression is made upon your mind at once. Is it not so? Again go with me to a business office where every one and everything moves quietly and systematically. Does not such an organization command your respect at once?

Reflect with me about the most forceful forces of nature. Do they not operate quietly?

Thunder booms with the noise of a thousand cannons, but it is the silent lightning which possesses power. The sun, on which all life on this planet depends, operates without

suggestion of noise. The electric current, the modern miracle worker of miracle workers, indulges in no screeching.

That mysterious thing which we call time keeps on the even tenor of its way as frequently as the motion-

It is only the surface of the sea that ever becomes tumultuous; the depths are as silent as the grave. Individuals, institutions, nature, all

prove for us the power of quietness. Don't be secretive, sphinx-like, Owing to the fact that there seems that is worse, much worse than beto be some misunderstanding, espe- ing noisy and voluble. But if you

> Try to acquire the reputation of Bureau is located in the a quiet person if you would be a -Exchange.

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# The Inquiring Reporter 16 Schools Use Dean

Question: What do you think of the new six-column paper?

Dr. C. A. Tibbals: I think that this step indicates great progressiveness on the part of the staff. I hope that the paper will some day become a daily one.

A. J. Stabovitz, '29, Ch. E.: It shows that the paper is progressive and that there is plenty of news around school each week to fill an extra column. I'd like to see more pictures in the near future.

T. R. O'Malley, '30, M. E.: I think the idea is very good. It clearly Fred H. Juergensen, School Social shows that the paper is progressing. It's something we can be proud of.

Professor W. A. Spencer: The Ar-John W. Gamble, Interfraternity mour Tech News is surely a fine paper considering the short time it has James Dawson, Interclass Athletic | been in existence; and a six column edition is in keeping with its standard of progress.

J. Goldman, '30, Ch. E.: It looks as if the paper is very progressive. Through the absence of Wm. Jer- It shows an added interest on the

R. J. West, 32, E. E.: I am all for it. I believe that with a six column lines, which will enable more emphasis to be placed on the good things

J. J. Arends, '32, F. P. E.: I think of the newspaper staff in order to enlarge the paper and still keep the expenses down.

#### LARGE N. S. ENROLLMENT

Professor Robert V. Perry, director of Armour Tech Evening School, reports the record breaking enrollment in that school of 1150 students, Think for a minute of all the peo- or more than twenty percent better than the enrollment last year, when

# Palmer's Math. Text

Dean Palmer's ability as a textbook writer has once more been demonstrated. To date, his latest effort, "College Algebra," written in conjunction with Professor Miser of Vanderbilt University, and published by McGraw-Hill Book Co. of New York in June, 1928, has been adopted in sixteen of the leading colleges and universities of the country. The fol- cess. lowing is a list of the institutions using this text book:

University of Denver University of Southern California University of California University of Minnesota Phillips Exeter College Vanderbilt University Western Reserve Staunton Military Academy Ward-Belmont Girls' College Rochester Mechanics Institute Carroll College Arkansas College Iowa Wesleyan College Tri-State College Case School of Applied Science Armour Institute of Technology

popularity the "Plane and Spherical Alumni is to be represented. Activ-Trigonometry" by Palmer and Leigh, ities will consist partly of games, inso familiar to the embryo engineers cluding football, baseball, tennis, and at Armour. This Trigonometry text- what-have-you? book is now the most widely used American college textbook in this subject. One hundred and fourteen schools, colleges and universities had adopted this book by the close of the school year last spring.

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### Fraternity Notes

During the past week three of the Social Fraternities have pledged additional men.

Beta Psi: J. Dirkers, J. Kubika, and W. Trauten.

Phi Kappa Sigma: Emil Blomme. Sigma Alpha Mu: Nathan Rosen.

The Phi Kaps have started something new in the form of a tea dance to be given every other Sunday. Last week saw the first attempt at such a venture and it met with great suc-

Seven of the Theta Xi men attended the Delta Sigma Club pledge dance at the University of Chicago, last Saturday, November 3. The last Saturday, November 3, at their dance was given in Ida Noyes Hall in honor of the following pledges: Halloween atmosphere, and as a re-Misses Henrietta Drager, Ruth Fos-Isult of the activity of the pledges, ter, Caroline French, Gustava Gore, "stop," "no parking," and other help-Janet Lawrence, Nelliebelle Reardon, ful signs were used to good advanand Janet Works.

Needleman at the Sand Dunes. The the occasion. "bunch" is leaving by train Saturday afternoon, and all members have been instructed to bring both food This new book bids fair to rival in and blankets-plenty of both. The

#### [Farrell, News Desk Ed., Absent For Two Weeks

Fred B. Farrell, '29, C.E., has been unable to attend his classes for the past two weeks because of the serious illness of his mother. His absence has been a handicap to the staff of the NEWS, of which he is Desk Ed-

Preston E. Heath, '30, F.P.E., was called to his home in Denver, Colorado, Monday evening, when news reached him of the severe illness of his father. He was unable to say definitely when he would return. Heath is Assistant Editor of the 1929 Cycle, and a member of Theta Xi fraternity.

The Rho Delts gave a pledge dance house. It was decorated to fit the

The house was filled to overflow-Armour Chapter of Kappa Delta ing, most of the guests being alumni. Tau is to have an outing over this The pledge emblem was printed on week end at the cottage of Louis the cover of the program in honor of

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And rightly enough, for Chesterfields are mild -and they DO satisfy... and what more can any cigarette offer?

MILD enough for anybody..and yes..THEN SATISTY

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