Lewis E. E. Students Share Talkie Films At Armour Assembly

Last Thursday at a joint meeting of the Armour and Lewis Institute branches of the A. I. E. E., held here, a program of talking movies, furnished by the Bell Telephone Labora-

tories, was given. Many of the Lewis students arrived some time previous to the assembly, enabling them to make an inspection of the school. A number of senior electricals under the leadership of J. M. MacDonald took groups of these guests on trips throughout the main building and to those laboratories as they might be interested in.

In preparation for the meeting, talking movie apparatus had been installed in the assembly hall. The principal parts of which were a projector, not greatly unlike the ordinary projector, and an amplifier with a loud speaking device.

The projector is the same as stand- Soph Dance Turnout ard except that the speed is greater, twenty frames per second, and a sound reproducing device is built in it. Along side of the picture, on the film used, is to be found a strip of ture passes in front of the lens, this Friday in the Grand Ballroom of the Tango should be danced. strip also passes, at distance of 12.5 inches behind the picture, between a of the school dances held during this small lamp and a photo electric cell. The impulse generated by the photo electric cell is fed to the amplifier, and greatly increased in value is used to actuate a cone speaker of the conventional Western Electric design. This speaker was concealed behind a novel perforated screen, doing away with the effect of seeing the picture at one point and hearing the voice come from a different point, so noticeable in many talking movie installations.

Mr. L. S. O'Roark, information manager of the Bell Telephone Laboratories, addressed the meeting. He wished to dispel any belief, that in spite of all the marvelous things already done by science, room for research was exhausted. He cited the fact that such a seemingly commonplace thing as the resistance of a material to the flow of an electrical current, is hardly understood at all.

He predicted that in the future, professors would be relieved of much of the routine work of lecturing to classes, by means of the talking movie.

As an illustration of this, two reels of talking pictures were shown, in which the operation of various pieces of telephone equipment were explained. In presenting these Mr. O'Roark pointed out that they were also laboratory experiments in another field, but in common with any laboratory experiment they were not always completely satisfactory.

Before the program of pictures was completed, it became apparent that further operation of the projector would be impossible due to repeated burning of the film as it passed through the frame.

Discuss "Inhibition" At A. C. S. Meeting

Tomorrow evening at 7:30, the American Chemical Society will hold its February meeting in the City Club rooms. The speaker of the evening is to be Dr. H. N. Alyea of the University of Minnesota. His subject will be "Chain Reactions and the Mechanism of Inhibition." Dr. Alyea is one of the foremost authorities on inhibition, and he will present a suitable theory to explain this phenomena.

Science has recently discovered that negative catalysis of inhibition is just as interesting and fundamental as is catalysis; products that deteriorate or spoil can be preserved by adding traces of substances called "inhibitors."

It has been pointed out that inhibitors cannot be discovered by the trial and tribulation method. It must first be understood how inhibitors work. The research laboratories during the past few years have done much to answer the question, "By what mechanism can a tiny quantity of inhibitor exert so powerful an influence?"

This lecture should prove profitable to all those interested in chemistry.

FOR QUALITY AND LOW PRICES, EAT AT BAUER'S RESTAURANT INDIANA and Sist STREET

Sr. Fire Protecs See DANCE CHAIRMAN C.F.D.'s High Spots

R. N. WILSON, '31

Poor, But Good Time

Was Had By All, Etc.

The Sophomore Dance, held last

Hotel LaSalle, attracted about one

dance in other respects. The music

was furnished by Lew Diamond's Bal

Tabarin Orchestra, a Benson organi-

zation, which was all that the commit-

On Friday, February 8, a group of Senior F. P. E.'s, about twenty-five partment. They witnessed several calls going through and turned in some alarms themselves, learning how the city is covered in times of conflagrations.

From the City Hall they went to the Franklin Street Bridge where the Fire Boat, Graeme Stewart, is located, proceeding to make an inspection of it from turret nozzles to boilers.

On the following Friday, February 15, the senior F. P. E.'s visited the Chicago Fire Patrol No. 5 at Hill and Orleans Streets, where the fire patrolmen's school is located. Their training school resembles the Underwriters' laboratory in miniature. The only thing the seniors didn't do there was go on a run with the patrolmen.

tiful little Spanish girl gave those present an exhibition of how the

hundred couples. This was the third were: Dr. and Mrs. H. M. Raymond, Dean school year. - According to R. N. Wil- and Mrs. C. I. Palmer, Prof. C. A. son, sophomore social chairman, only Tibbals and daughter, Prof. and Mrs. eighty-five bids were sold and there- J. F. Mangold.

The members of the Sophomore Sofore the dance was not a financial cial Committee were: R. N. Wilson, Lack of numbers, however, had chairman, M. C. Larkin, F. M. Pfeinothing to do with the success of the fer, F. M. James, J. M. McAlear.

LIBRARIANS THANK DONORS

Mrs. Sanders and Miss Rowls, litee claimed that it would be when it brarians at the Burnham library, Art comes to playing good dance music. Institute, wish to thank their un-As a special attraction Byron Nevil-known admirers for the collection of

MANY STUDENTS accomplished.

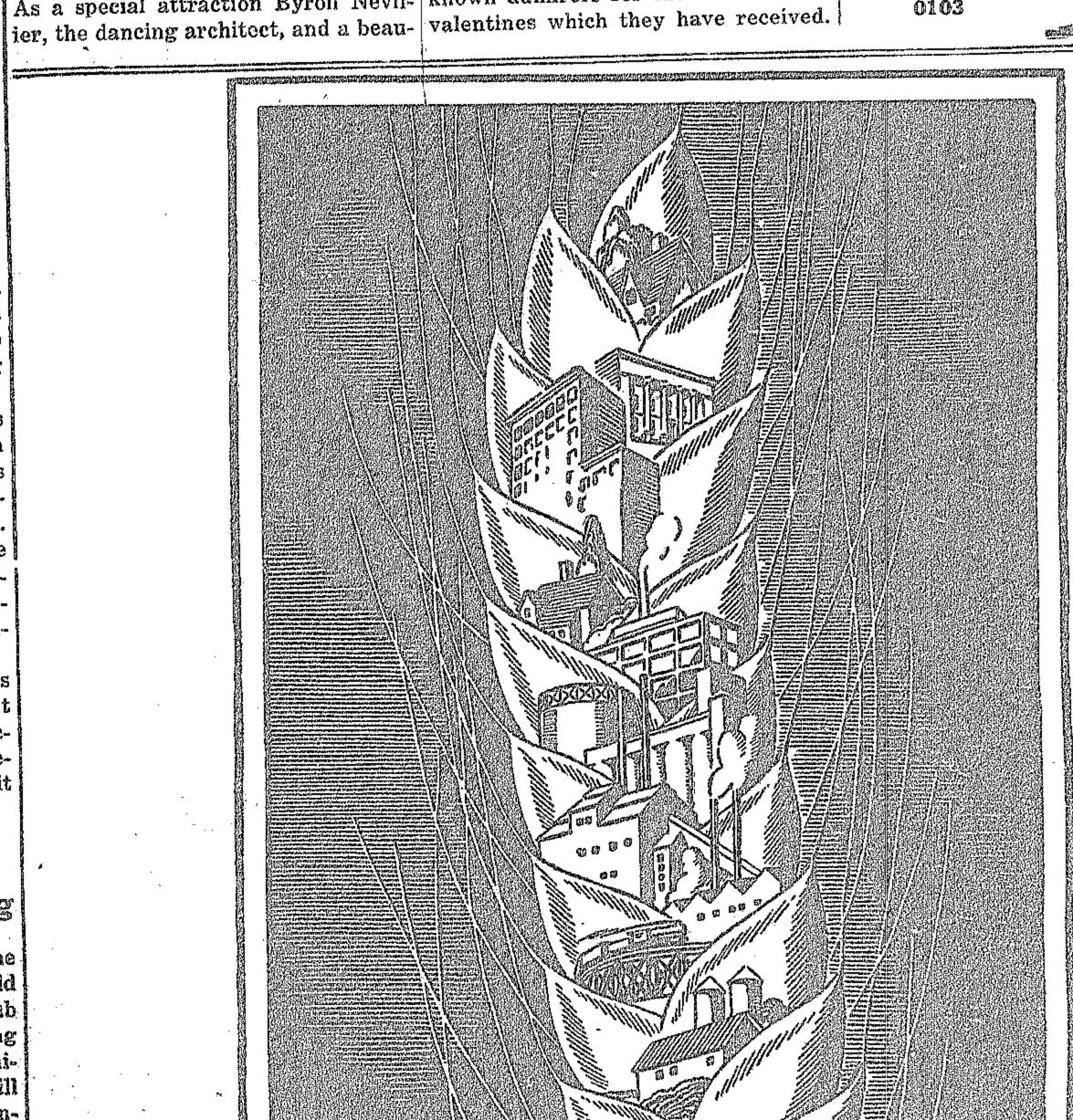
Midwest Engineering Conference was in number, went to the City Hall to hundred and sixty displays by manumake an inspection of the central facturers of mechanical products, bounding through a bearing race to of Chicago for delegates from the alarm station of the Chicago Fire De- ranging from a Deisel switch engine fall on a second metal plane and be chapters of Theta Xi near Chicago in the booth of the Fairbanks Morse Company, to an automatic saw sharp-

teresting exhibits and converse with invisible means. men already engaged in engineering work. Soon word was passed around as to where hydraulic handbooks, catalogues giving specifications of hoists, pipes, and key rings were to be had for the asking.

Much interest seemed to be shown in the several displays of automatic stoking equipment. The individual displays varied as to size and in certain other mechanical features. All, however, sought to enable soft coal! to be burned smokelessly with the convenience of oil, yet at a cost lower than hand fired coal.

Both the "Iron Fireman" and The chaperones for the dance "Combustioneer" displays showed models suitable for economical operation in the smallest of homes. There





Great states from wheat seeds

TT was unprofitable wilderness, most men thought. But James J. Hill had faith that it could grow wheat and so he built his railroad. Settlers turned the waste-land into wheat-land, the wheat into wealth, the wealth into great western states.

Faith in the economic future still points the way. Right now men in the Bell

System are planting the seeds of vast possibilities for even better communication.

Out of the belief that the public needs a broader use of the telephone is growing a constantly improved long distance telephone service. Like the railroads of an earlier day, this service is now tapping and helping to develop rich new territories of commerce.

BELL SYSTEM

A nation-wide system of inter-connecting telephones



"OUR PIONEERING WORK HAS JUST BEGUN

was a "Combustioneer" stoker in actual operation in a full size furnace, showing exactly how the firing was

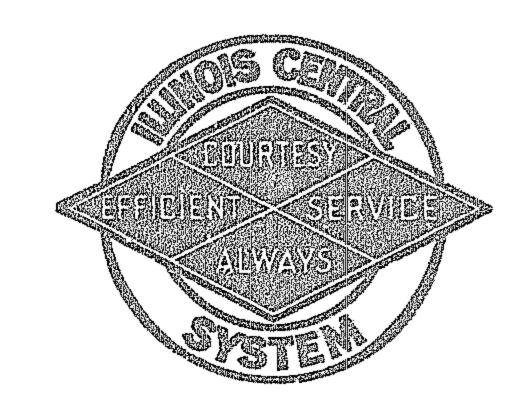
The fourth annual Power Show and Mfg. Co. contained a very clever dis-ing held, in San Francisco, Califorheld at the Coliseum February 12 to three quarter inch steel balls were Armour Chapter's delegate. 16 inclusive. There were over four dropped a distance of a foot and oneener, which may have improved the When in operation, one ball falling Several members of the Armour saw, but certainly was hard on one's but a second after the previous one, chapter attended the banquet. a very amusing sight was presented,

THETA XI

The Armour Chapter of Theta Ki was host to several members of Eastern chapters on their way to the an-The exhibit of the New Departure | nual convention of the Fraternity, beplay. From an opening in a case, nia, this week. E. R. Rowley, '30, is

A banquet was given last Monday half to strike on a metal surface, re- evening at the Interfraternity Club so deflected as to re-enter the case and east of here, before they bearded several feet from where they issued. a special train for San Francisco.

The Armour Chapter of Theta Xi All week long, groups of students the balls seeming to follow one an- wishes to announce the pledging of: took the opportunity to visit these in- other as if fastened together by some A. W. Griesman, '31, J. E. Taylor, '32, and H. P. Richter, '32.



Protection of Freight

Transportation, to be efficient, must be not only rapid but safe. This applies to both passengers and freight.

In their freight business the railroads are intrusted with the safeguarding to destination of approximately 165,000 newly loaded freight cars every working day. Since most railway freight spends several days on the road, the value of the total amount of freight in the possession of the railroads at any one time must run into the billions of dollars. To protect this freight from damage, robbery and loss through misdirection is a task requiring the co-ordinated efforts of many thousands of railway employes.

Besides inspecting carefully the condition of cars and insisting upon certain standards of safety in the packing and stowing of freight, the railroads school their trainmen and enginemen in the proper handling of their trains, even going so far as to check up, by means of impact registers, on the degree of roughness in the handling of individual cars. Every railroad of any size has its own police department to protect its shipments from robbery. Station and accounting forces are carefully trained in the billing, checking and tracing of freight. Special departments are maintained for the adjustment of freight claims.

With all this care, is it any wonder that railway payments for freight loss and damage have declined remarkably in recent years? Between 1920 and 1927, for example, the number of such claims presented declined from 4,721,497 to 2,527,055, payments of all freight claims declined from \$119,838,127 to \$37,146,813, and payments per car loaded declined frfom \$2.66 to 72 cents. Robbery losses per car in 1927, for example, averaged 2.2 cents—just a trifle more than the cost of a postage stamp for a letter.

Because of the safety and financial responsibility which they present, the railroads feel well justified in soliciting the continued freight patronage of the American public.

Constructive criticism and suggestions are invited.

> L. A. DOWNS, President, Illinois Central System.

CHICAGO, February 15, 1929.

(An essay contest on "The Future of the Railroads." now in progress, will close February 28. For details address L. A. Downs, President, Illinois Central System. Chicago.)