HOTCHKISS SPEAKS AT AUSTIN HIGH ON MODERN PROBLEMS

Engineering Progress in Last Fifty Years Outlined

COURSES CHANGED

that will merely help earn your liv- how it came to be. ing. Think of yourselves rather as cultivate your brains and your mus- papers have already been planned. outstanding phase of our civilization." other is on "Nomographs."

"And you who have pursued literary and scientific courses, should for your own enlightenment, carry your interest beyond the switch and the dial of your radio, and the accelerator of your car, and give some thought and what it means to you, both in in such an age as ours."

Commencement Address presented at tended school. year.

Reviews Developments

Columbian Exposition in 1893 until engineer's point of view. now, and how these developments took the country out of a business depression second in extent only to the one we have now been passing through. He looked toward the possibility of science and engineering removing us completely out of this depression.

It was stressed throughout the speech that formerly the engineer considered it sufficient to develop and manufacture his inventions. As a result, the external lives of people have been changed rapidly as they accepted and used these inventions. This rapid change of comforts and conveniences was not accompanied by a similar change in human relations, in employment, education, and recreation. In the future the duty of the engineer is to take cognizance of this fact and develop his social activity as carefully as he does his machinery. It will be necessary to educate humanity in the proper use of any new contrivances before they can be successfully marketed.

Illustrations From Modern Life

It is necessary to educate the engineer in government, business administration, and the fundamentals of social activity. Steps are now being taken in that direction by our colleges.

The high school or college graduate faces discouragement at every corner, but upon him rests the security of the future. It is his duty to prepare to assume responsible duties as a citizen.

In his talk Dr. Hotchkiss gave illustrations from modern life. He spoke in particular of the significance of having an outstanding engineer like Arthur Morgan direct the Tennessee Valley Development regardless of what the outcome might be. He cited the government's employment of engineers in solving the present and

future housing problem. Engineering plays a large part in the simplest kind of community, and a technical education is one of the best forms of preparation for a future citizen. The engineers of tomorrow will need all of the ingenuity and skill that engineers of the past have had. In addition to practical shop training, the engineer will need a keen sense of the place engineering occupies in modern living, and, "he cannot be a good citizen unless he recognizes that his special knowledge and skill carry a peculiar responsibility for service to his community and his country."

Alumnus Named Best Citizen of Memphis

Ben B. Coffey, Jr., an Armour graduate of the class of 1926 in the F. P. E. department, was nominated as the outstanding citizen of Memphis, Tennessee, for the year 1934 by the Lions Club in the annual contest sponsored by the Memphis Junior Chamber of Commerce.

Math Club to Elect Officers at Meeting

With the start of the new semester the Math Club plans to elect its officers and perpare for a busy season. This will take place at the next meeting, to be held at 10:30 Friday in Science Hall.

Besides the election a paper on "The Origin of Calculus" will be given by Roy Kercher. The material will be presented so that it will be "You who have had the advantage intelligible to the entire student body. of so-called technical or vocational It will show those who haven't taken courses: I urge you not to think of the subject what it is about, and yourself as having studied something those who have taken the subject,

To give the program committee having had a valuable opportunity to which is to be elected a start, two cles to act in unison, and as having One is on "Harmonic Motion Analyparticipated in something which is an sis" by Arthur Bronwell, and the

New Professor Is Widely Experienced

Armour's new social science inabout how these things came to be, structor, Arthur S. Hansen, is also a consulting actuary in Chicago. Mr. opportunity and responsibility, to live Hansen worked several years before taking up electrical engineering at including a few to be presented in Schmidt, will continue in that capac-These were the closing words of a Armour Institute and while he at-

the Austin High School graduation | Realizing the importance of a tained at Armour from J. DeBoo. were present at the News banquet exercises by Dr. Willard E. Hotch-knowledge of engineering and busi-However, the total number available held in the Student Union last Wedkiss, President of Armour Institute of ness principles in his work, Mr. Han- is only 350, and they are selling fast. nesday evening. In addition, N. E. Technology, on February 1 of this sen studied economics at Chicago and Prices are 83 and 55 cents, tax in Colburn, H. W. A. Davidson, R. A. Northwestern universities after cluded. graduating from Armour in 1926. In the address, Dr. Hotchkiss re- Since Mr. Hansen has an engineerviewed the engineering and scientific ing background, he is able to present | their books on their heads to correct | advisors of the News, were present. | ted as toastmaster and R. D. Armsdevelopments from the time of the economics to the students from an their posture. It must be true that Short speeches were made by the re- bury headed the committee on ar- for a municipality with a light in-

IN CONCERT



ALEXANDER KULPAK, who will lines. take part in a recital next Sunday at the Lyon and Healy Concert Hall.

Armour Student Will Give Concert in Loop

Ukranian costume.

Tickets for the concert may be ob- About sixty members of the staff

all learning goes to our heads.

New Staff Men Already at Work

(Continued from page 1) and Fred Leason as assignment editors. The news reporters will work directly under these men. Several cub reporters were promoted to the full status of news reporters.

editor, replacing Otto P. Freilinger, has three assistants, Victor J. Kropf, William S. Hamlin, and Robert H. Knabe. These men will check on accuracy and journalistic style of the copy turned in by the reporters and will supervise the writing of head-

Galandak Feature Editor

John Galandak; as feature editor the post formerly held by Curtis R Bristol, will supervise the various columns and features of the newspaper, including the Arx News, Student Alexander Kulpak, an Armour stu- Musings, Fraternity Notes. and dent well known for his work in the others. Nicholas Balai, the new proof musical clubs, will participate with editor, will do the work formerly done ments consists of standard pipe about Miss Marie Winarski in a recital of by John F. Humiston in supervising operatic, classical, and folk songs to the work at the print shop on Saturgiven in the Lyon and Healy con- day mornings. Robert M. Lundberg, cert hall next Sunday, February 24 who has been serving as circulation at 3:00 p. m. The selections manager for the past semester in the pipe are sealed with asbestos. to be presented are many and varied, absence from school of Frank W.

> Fleissner, and C. N. Clarkson of last year's managing board and Profestiring editors and the visitors. E. N. rangements.

Heat Insulation Is Graduates' Work

J. A. Clear, B. E. Wolgemuth Prepare Joint Thesis

For the past four months Mr. J A. Clear, '30, and Mr. B. E. Wolge-Gordon A. Zwissler, the new copy muth, '21, have been experimenting on heat losses through pipe coverings, particularly at high temperature, in preparation for the writing of a combined thesis.

> With the development of high pressure steam and boiler plants throughout industry, a need for pipe coverings that would withstand high temperatures became necessary. Mr. Clear and Mr. Wolgemuth, under the direction of Professor J. C. Peebles, a recognized authority on insulation, are collecting experimental data as to the efficiency of the pipe covers now in commercial use.

The apparatus used in the experieight feet in length suspended from the ceiling. Through the inside of the pipe runs a resistance coil to supply the heat. Both ends of the One of the difficulties of accurate

work is the time element. For correct readings a constant temperature the Chicago Christian College since must be obtained on the outside of his graduation in 1932. During the the pipe and the outside of the covering. It takes from eight to ten hours of heating to get this balanced ing. condition.

A number of commercial pipe cov-

The girls at Smith college carry sors Hendricks and Colvert, faculty Searl, the retiring editor-in-chief, act-

erings have been tested. Glass wool has so far proven to be the best insulator. Much higher temperatures can be reached with a covering than without one. Under their experimental conditions, Mr. Clear and Mr. Wolgemuth found that a temperature of only 200 degrees F. could be reached without an efficient covering whereas a temperature of 100 degrees F. could be reached with an efficient covering.

In a short time a new covering will be received for testing. This covering is made of vermiculite, a mineral which when mined looks like mica and when heated expands to about ten times its original volume. The heated mineral is ground up, mixed with a suitable clay, and molded into pipe covering.

Both Armour Graduates

Mr. Wolgemuth graduated from Armour in 1921. Since his graduation, he has had varied experience in engineering work. Among the companies he has assisted are: H. M. Byllesby & Co., consulting engineers in power plants; Sargent & Lundy, consulting engineers in power plants; V. D. Simons, consulting engineers in paper mills and power house construction, and Public Utilities Commission, Mantowoc, Wisconsin.

Mr. Clear taught for two years at absence of Professor Seegrist, he assisted in teaching freshman draw-

Designing Power Plant

Under the direction of Professor R. V. Perry, Mr. Clear and Mr. Wolgemuth are designing a complete five thousand kilowatt power plant dustrial load.

