Egloff Speaks On Oil Well Drilling

Dr. Gustav Egloff spoke before the members of the A. S. M. E. at the meeting last Friday. He was acquired as a speaker largely through the efforts of Professor Roesch and R. W. Suman.

In his talk he discussed modern methods of locating oil used at present compared to wild cat methods used in the past. He pointed out that in modern drilling work the shaft is drilled perpendicular to the surface of the earth, while in the past many times the drill assumed a somewhat different direction which often caused disastrous results.

The oil industry requires the combined wits of a physicist, chemist and an engineer to cope with the variable problems of handling the oil from the well until it is presented on the market. In an industry where ninety billion dollars a year is at stake, a saving of a small fraction of one per cent is quite an item.,

Large Field Open

Everything to be known in the refining of oil is not known at present and a large field is open for improvement of the various processes and operations. The field open in most cases includes only the improvement of particular operations or processes and not complete revision of the industry as has been the case in past years.

Refinerys receive most of their crude oil from pipe lines leading direct from the oil fields, and a steady pressure is maintained by pumping stations at intervals along the line. The maintaining of a constant pressure along the line when the viscosity of the oil changes is a factor and was accomplished by the ingenious mind of an engineer who placed a pumping station on rail and moved this along the line so that the change of pressure was overcome.

Trying to Eliminate Losses

In the refining of crude oil into gasoline and its many products one tenth of the actual value of the crude oil is used in the process of refining, which is quite a large factor, and it is hoped this cost will be cut down in the near future.

Dr. Egloff outlined the fact that he interviewed many college men for positions and that a lack of keeping up in their respective branch of work was noticed by him. According to him, the engineer actually begins his studying when he graduates and that he must keep up with new methods of engineering and should not be discouraged if he does not get a position until a year after he graduates.

Students at Columbia Revive Old Publication

Students in the Columbia School of Journalism under the direction of Dean Carl W. Ackerman, as editor, have begun publication of a bimonthly newspaper, "The Independent Journal," copied in style and makeup from the paper of the same name which was published in the United States from 1783 to 1788 and became famous.

It was famous because it contained the column of editorials written by Alexander Hamilton, John Hay, and James Madison called "The Federalist."

Follow These Rules and Become an Expert Bridge Player

- 1. Pick up cards as dealt. You will be ready to bid ahead of the others.
- 2. When you have a poor hand, signal immediately by saying, "Who the heck dealt this mess?"
- 3. If you get a poor partner, keep score yourself; you've got to have some advantage.
- 4. Never hurry. Try several cards on a trick until you are sure which one looks best.
- 5. Occasionally ask what is trump. This will show you are interested in the game.
- 6. Trump your partner's ace and cinch the trick.
- 7. Eat chocolate caramels or other adhesive candy while playing. It keeps the cards from skidding.
- 8. After the third round lay your hand on the table and claim the rest of the tricks; you may not have them, but it's much easier to play with all the cards on the table.

Elm Bark.

Armour Quartet Is Feature of Banquet

An important part in the program given in conjunction with the annual banquet held by the West Side Bowling Club, was taken by

dore Wallschlaeger was the accom- steel in the United States in 1929 panist.

gave a short musicale for the Mother's Club of the Beta Psi Fraternity recent years but sufficient data has esting and humorous speeches by count of the "human stresses and at the Beta Psi house.

New Slide Rule Called Trigonograph Devised

eral advantages are claimed for a new one known as the Trigonograph. | compared to China. It consists of a triangle of paper or celluloid with a slide which rotates about one of the angles.

The new device is a function table as well as a calculator, for it gives values of trigonometric functions to three decimal places. A single setting determines all the functions of a triangle, and many applied mechanic's problems can be solved directly.

The Trigonograph is especially useful to a person studying trigonometry, as it gives a visual interpretation of various functions.

Denver University freshmen are

Students in Switzerland get a pass them at the beginning of the er method. school year and again at the close.

Mr. Henry Penn Addresses W. S. E.

Henry Penn, a brother of Dean Penn and a representative from the the Armour Quartet last Saturday. | American Institute of Steel Con-The members of the Armour Quar- struction was the interesting speaker tet who furnished the musical en- at the W. S. E. meeting last Friday. tertainment were Armand Hahn, He talked principally on the value Alexander Kulpak, Marshall Ny- of steel in the construction of buildstrom, and Frederick Smith. Theo-ing material. The consumption of was the equivalent of supplying three A week ago today this Quartet and one-half pounds of the metal per person per day. It has increased in the organization, consisted of interwas shown that even though our singing of the "Armour Fight ress." Many types of slide rules have country is not very old, our progress been offered to the student but sev- has surpassed that of China because | The audience joined in the singing. of our huge consumption of steel

> History of man's development has been divided into three stages: stone, bronze, and steel. Iron was used before the time of Caesar; but progress | food high temperatures. The methods of hardening iron were the same as those we use today. Barbarian tribes had other methods of tempering iron. One method was to heat the iron and plunge it into a slave; the process being repeated six times. Its temper was tested by bending it about a slave's waist; and if it sprung back into shape it was satisfactory.

Iron was first cast in Europe in forcibly ejected from all football 1458. Progress in iron-craft was and basketball games if they are slow and it was not until 1858 that discovered bringing dates with them. the Bessemer process was invented. This led into a greater demand for steel which led into the development double dose of exams. They must of the Open Hearth process, a cheap-

Mr. Penn then discussed steel in greatly lessened.

Hold Semi-Annual Music Smoker

Members of the Armour Tech Musical Clubs had a very enjoyable evening at the semi-annual smoker held at Theta Xi fraternity house on Wednesday, November 29.

The meeting was devoted to the playing of cards and also ping-pong. There was an abundance of cigars and cigarettes for those who smoked.

The regular meeting, presided over by Clarence Clarkson, president of Song" and the "Alma Mater" song. After this a picture of the group was taken.

Refreshments in the form of sand wiches and coffee were served by the Pi Nu Epsilon pledges and the disappeared rapidly was restricted to the use of iron be- though turkey with all of trimmings cause of the difficulty in reaching was to be eaten on the next day which was Thanksgiving.

> The meeting was brought to a close with the singing of the "Armour Fight Song."

modern housing. He brought out the fact that it has become important in its adaptibility as a fire-proofing material. In the past it has been assumed that, on heating, the carrying capacity of steel is reduced. Experiments prove that this is not the case, for steel actually becomes stronger when heated to 700° F. Between 700° F. and 1,000° F. its carrying capacity falls to normal. On further heating its carrying capacity is

S.P.E.E.Publishes Talk by Hotchkiss

(Continued from page 1) appeal to the instinct of workmanship it has laid excellent foundations upon which to build cultural as well as professional education adapted to the personality of the student, enthe changing society which he sees large his appreciation, stimulate his ahead of the present generation of students.

Adaptation Is Essential

Dr. Hotchkiss then develops the inevitability of further important ad- cupied. vances in technology, and urges the necessity for education to take ac-

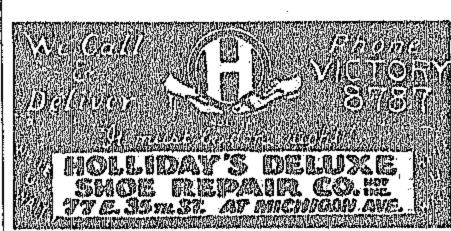
bring the natural difficulties of function in the society of the future. breaking from tradition, but, Dr. Hotchkiss declares, these obstacles are largely psychological and can be overcome.

He then develops in some detail the changes in curricula at Armour Institute which have since been effected, the integration of freshman studies, the reorganization of shop courses, and the introduction of

study in business and social subjects. Speaking of teaching in engineering subjects, he says that it is not only possible but desirable to follow those subjects which are expected to contribute toward professional competence into their business and social ramifications. In this way engineering teaching can still further enrich intellectual curiosity, and develop his capacity for thinking both accurately and comprehensively upon the subjects with which engineers are oc-

The relation between general and

professional education, Dr. Hotchkiss concludes, has been confused by not been obtained to determine the Deans Penn and Heald, Professor strains" involved in adapting society the persistence of the idea that final statistics. The speaker drew a Leigh, faculty sponsor, and Mr. to technical change. "The outstand- "cultural" and "practical" denote parallel with the consumption of steel Erickson, director of the musical ing cultural problem with which en-conflicting aims in education. Any and the progress of a nation since clubs. The pledges of Pi Nu Ep- gineering education is concerned," he course of study, he maintains, is culthe dawn of history. China was silon, honorary musical fraternity, states, "is to render maximum aid in tural if taught and studied in such compared with United States and it also entertained those present by the balancing social and technical prog- a way as to develop the student's mental power and build up his per-To accomplish this in a society | sonality, and any course so taught whose parts are as closely interwoven and so studied is practical no matas in ours, competent engineers must | ter how indirect its application may have a considerable knowledge of the be. Hard-boiled, low-brow engineerfields upon which their own fields ing education must be thus regarded impinge. The selection and revision and developed as an approach to culof curricula toward this objective ture if it is to fulfill its most vital



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