

### Freshmen Given Rules for "Caps"

In order to inform freshmen of new developments regarding their green caps, the News is publishing a list of rules which have been formulated for the guidance of the first-year men.

1. Caps are to be worn at all times after the Freshman Handshake, tomorrow evening until Thanksgiving. During the winter, edge will be given to the froth but the custom will be renewed on St. Patrick's day and continued until the freshman-sophomore rush at the end of Junior week.

2. Because the freshmen heads are not sufficiently hardened yet, they will not be required to be adorned by green hats in rain or snow before the winter recess.

3. It has not definitely been decided what consequences violators of this very important act will meet, but freshmen are invited up to the News office to examine the historical records as set down in the past issues of the Armour Tech News.

There will probably be a board of control of upperclassmen and offenders will be arraigned before it. After due consideration has been given the offence, it will be passed upon and the scales of justice will be in balance once again.

### Tech Music Clubs Plan Active Year

The Armour Tech Musical Clubs under the direction of Mr. Erickson will open their season by giving a concert at A Century of Progress on Saturday night, October 13. It has been planned to have both the glee club and orchestra participate in the concert, but weather conditions may not permit the orchestra doing so.

Last Thursday the orchestra and glee club held their first meeting and several new members were welcomed into each club. Any other person interested in either musical club is advised to register in it as soon as possible in order to take part in the concerts which will take place soon.

The orchestra will practice as usual on Tuesday evening from five to six o'clock, while the glee club will meet at the same time every Thursday night. It is very essential that anyone intending to participate in the concert at A Century of Progress attend every practice of either glee club or orchestra, as anyone who does not attend these meetings will not be allowed to take part in the concert.

### W.S.E. Officers Lay Plans for New Year

Plans are being rapidly formulated by the newly elected officers of the Armour branch of W. S. E. to make it one of the most active organizations on the campus during the coming year. As the society has always been known for its ability to secure noted engineers and technicians for its meetings, the present officers are intent on keeping up the good record made in the past.

The officers of the Armour branch of W. S. E. are: G. A. Nelson, president; K. O. Stocking, vice-president; J. M. O'Connor, secretary; C. P. Grakavac, treasurer; and B. Rigoni, student representative.

Members of the organization are urged to attend a meeting scheduled for Friday. Only juniors and seniors of the Civil Engineering department are eligible for membership in the organization, but all students who are interested are invited to the meetings.

### Will Announce Essay Contest Winner Soon

Eta Kappa Nu, honorary electrical engineering fraternity, is starting the year with a new group of officers elected late last June. They are W. B. Ahern, president; V. A. Hedlund, vice-president; L. F. Higgins, recording secretary; A. M. Wolf, treasurer; and D. E. Young, corresponding secretary.

At present no plans for the coming year are being announced but there are plans in the process of formation. The winner of the annual essay contest will be made known soon, the prize of which is a Standard Handbook of Electrical Engineering.

### Investigate Glass as Pipe Insulator

#### Huntly and Peebles Active in Testing Laboratory

Servant of the community, in particular the mid-west industrial community, a position which it is a large part of Armour's purpose to maintain, is a role often played by the research and testing department of the school, directed by Professor Finnegan.

A great deal of the work in this department is done by Professor Peebles, Armour's specialist in heat conductivity, and Professor Huntley, head of the Department of Mechanical Engineering and expert on strength of materials and mechanical devices of all kinds.

Beginning next week, Professor Peebles will be working on a job that is in the van of progress in steam engineering. Modern tendencies have been to increase beyond all former limits the temperature and pressure in steam lines. This calls for a new insulating material better suited to temperatures of from 800 to 1000 degrees Fahrenheit.

Seek Qualifications Professor Peebles will begin on a material composed of spun glass packed in mats or blankets and similar in appearance to the glass wool that is used in air conditioning equipment to filter the air. In this form it is a good insulator; just how good, Professor Peebles will determine.

The tests will be conducted on 4, 6, and 8 inch pipes. There is a possibility that they may be continued with many other insulating materials by two graduates from the department of mechanical engineering working for master's degrees: Bruno E. Wolgemuth, '21; and James A. Clear, '32.

It is possible, after a few tests on a material have given its specific conductivity, to determine what the radial flow of heat from a pipe of any diameter covered with any thickness of the material will be, by means of the mathematics of Fourier's series.

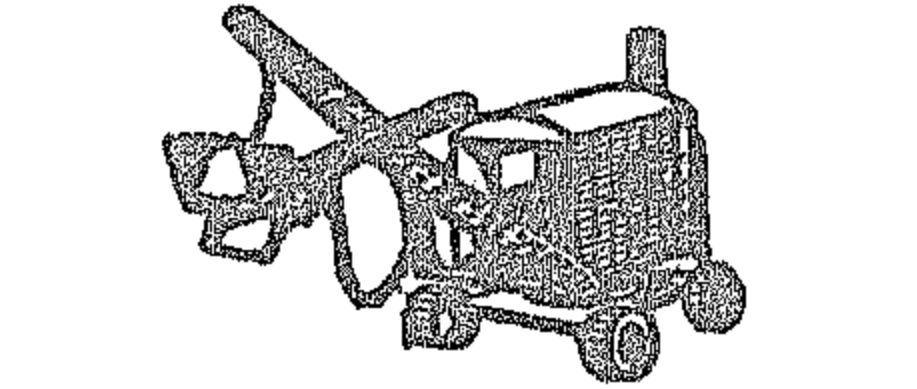
Health Dept. Involved Last summer saw a great deal of work in the Mechanical Engineering department on a particularly intriguing subject, that of a siphon stop for a new type of toilet bowl that has been extensively used lately. This fixture draws water directly from the fresh water mains. It was soon found, however, that a vacuum was forming in the valve which caused water from the toilet to siphon back into the drinking water supply. This naturally caused a great deal of perturbation in many circles, and a large number of the devices were brought to Professor Huntly for testing by, among others, the health department. The results have not yet been made known. But it is reported that in the case of at least some of the preventative devices which were presented, Professor Huntly stated that he wouldn't drink any water from a main to which they were connected. The final report is anxiously awaited.

### SIDELINES

(Continued from page 1) in its character at last. Mooney was closely associated with Burr and he, as his friends did after his death, continually changed the policies of the society to coincide with political desires. In fact it is said that Tammany served as an instrument in the hands of Burr which decided the election by which he became vice-president of the United States.

IT IS INTERESTING to observe as one writer puts it, that "an association introduced by an ordinary upholsterer, who never attained an official rank higher than keeper of a poorhouse, and recruited from the lower classes, has made presidents and government policies. While on the other hand, a society including Washington and Hamilton, and all the leaders of that army which made the nation possible, never exerted enough political influence to control a town election." That gradual change from a charitable organization to a political machine gives us the Tammany Hall of today. Originally partaking of Indian customs by meeting in tents and smoking peace-pipes, the Tammany organization has risen from tent to hall—merely to present the "best man" in political circles. That might be charity.

### THE STEAM SHOVEL



And we'll start off as usual... "With a question by SMETANA," remarks BENNY FREUD wisely.

In case you fellows don't know it, RUFUS OLDENBURGER is a doctor, and therefore — sophomore should not insist on his wearing a green cap. (Oh doctor!)

Despite the fact that CLARENCE (Miss Joyce) CLARKSON is lost to the Armour Players, a serious predicament is averted by the timely return to school of HERMAN (Mrs. Delone) BAUERMEISTER, Long live the queen!

Three or four tender aged freshmen have been seen sprouting mustaches—all of which reflects on the manliness of the manly upper classmen—and all of which should be duly remedied????

And Sammy Bibb's eloquent word of advice to Armour freshmen is: "Anything worth doing at all is worth staying up all night for." FINIS

### Evening Students Offered Variety

Due to the ever increasing demand for evening classes by those who are unable to attend day school, Armour Tech has increased the number of courses offered in evening school. At the present time there are about 40 different subjects open to working men, and these courses include every subject listed for every year of the day school course. Mathematics is offered from higher algebra to calculus.

Among the numerous courses offered are strength of materials, mechanics, drawing, machine design, heating and ventilation, electrical labs, radio lab, structural design and drafting, metallurgy, flow of heat and last but not least freshman chemistry courses.

The evening school is open every night during the week from seven to ten o'clock, and on Saturday afternoons from two to four o'clock. In case registration in any of the courses offered is considered insufficient, the class will be withdrawn.

The courses offered should satisfy the wants of any person coming to take classes in the evening, and many should find courses of interest offered that would not directly concern their job.

The schedule is the most thorough offered as yet, and should not need much modification in later years.

### Applicants Given F.E.R.A. Positions

Taking advantage of the few extra free hours incurred at the beginning of the semester, some F. E. R. A. appointees lost no time in getting started. Those who were fortunate enough to receive their placements early, put in a few hours of work on Tuesday after registering.

However, on Thursday morning the remainder of the placements were made. There are 116 authentic appointees and they will work in one of 17 sections. There is cleaning and clerical work to be done in each of the engineering departments at Armour besides help in the cashier, custodian, English, library maintenance, placement, registration, and treasury departments.

### Milwaukee Has Group of Active Graduates

Although Armour Institute of Technology is well represented in all of the larger cities of the country by her alumni, the Milwaukee alumni are the first, with the exception of the Chicago organization, to create a permanent society with regular monthly meetings.

The Milwaukee alumni organized as the result of a noon luncheon planned by a few Armour alumni in the latter part of 1932. At that first meeting only twelve men appeared, and at the present time the membership has been increased to forty alumni. It is the object of the association to foster meetings where in the members may enjoy themselves with numerous diversions, such as bowling and card playing.

### Miss Steele Answers Queries on the History of Mission Building

It's pretty evident that Miss Steele has had it in the back of her mind for a long time. Anyhow, when we walked up and asked her about the Armour Mission she fairly jumped at us with an idea.

The idea is this: This institution is filled with queer old things, and forgotten associations, let's dig them out and write them up. Miss Steele says plenty of people are interested, that she is bombarded with such questions as "What's that old stone out in the hall?" and "How come the girls' pictures in the library windows?"

Well, boys, now it comes out. We start with "Why do they call that building across the street 'The Mission?'"

It seems that back in 1874 a group of people headed by Dr. J. H. Hollister started a Sunday School. They had no particular church affiliations, but they were so successful that they had to move three times into larger quarters; the third move, in 1886, was into "The Mission."

This all comes from a little pamphlet printed in 1905 entitled "An Illustrated Historical Sketch of Armour Mission." It goes on to say: "Mr. Joseph Armour had... contributed liberally to its support. His death occurred in 1881 at which time he made a bequest of \$100,000 to be

used by his brother, Mr. Philip D. Armour in establishing a Sunday School Home for the people of this community. Mr. Armour added a large amount to this sum and... the present building was erected under the direction of Mr. David J. Simpson. It is probably the finest Sunday School building in the world.

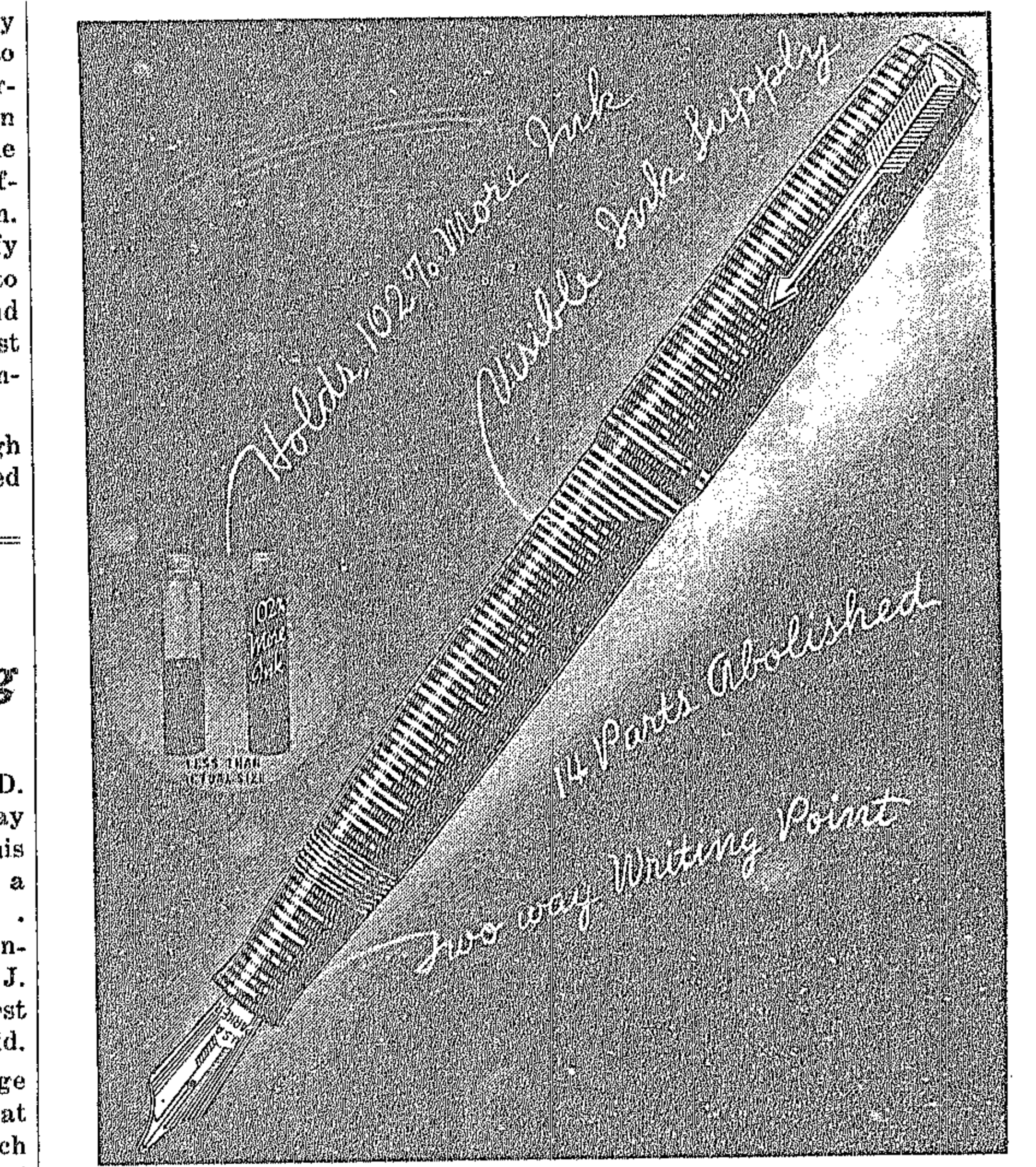
"It was completed in 1886, a large number of flats having been built at the same time, the income of which was to be used for the support of the Sunday School.

"At this time the school had a membership of five hundred, and at the first services in Armour Mission, seven hundred persons were present."

But listen to this: "The community may undergo many changes, and conditions may change, but none of them or anything can change the destiny of Armour Mission. It must continue as it began—a Sunday School. The income from its endowments must continue to supply its needs and time cannot make any changes—not even expediency could do it."

Well, that certainly tells why the building across the street is called "The Mission."

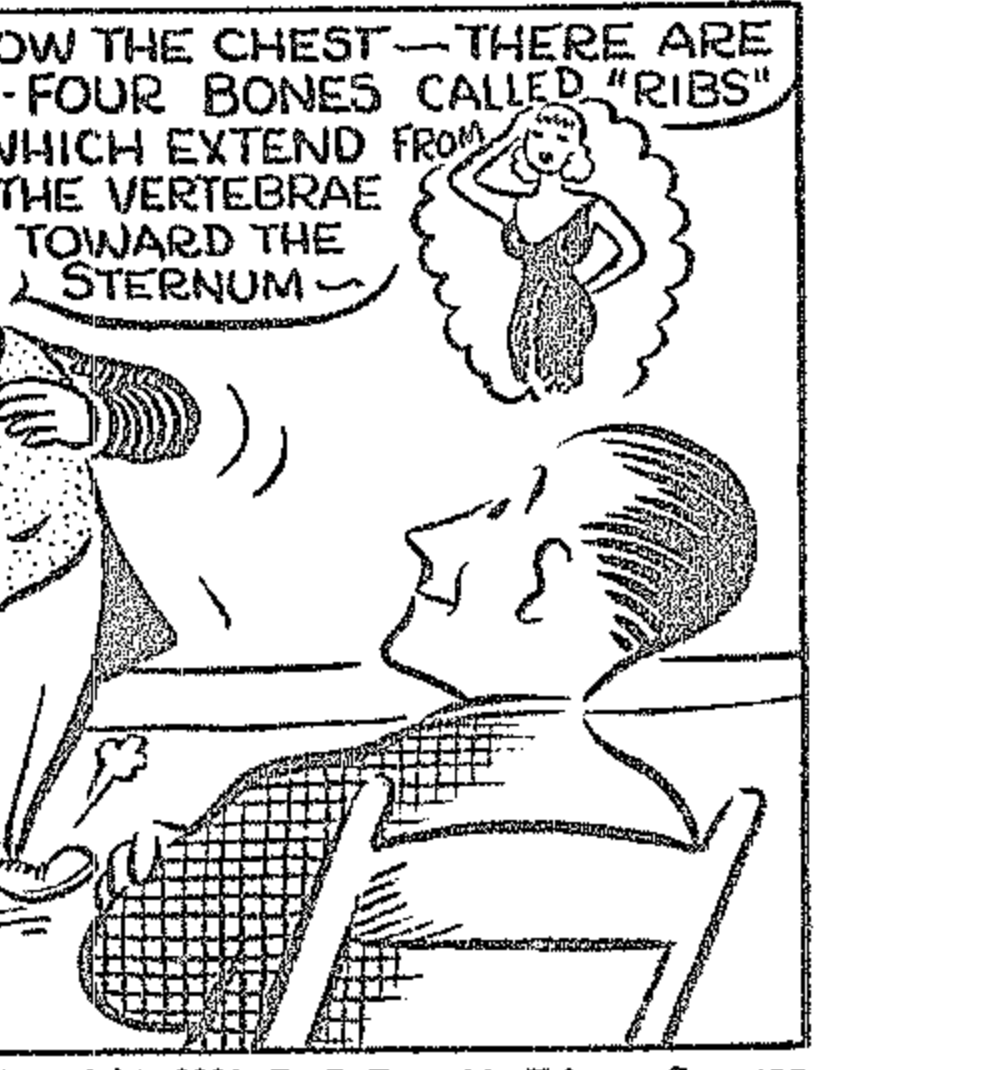
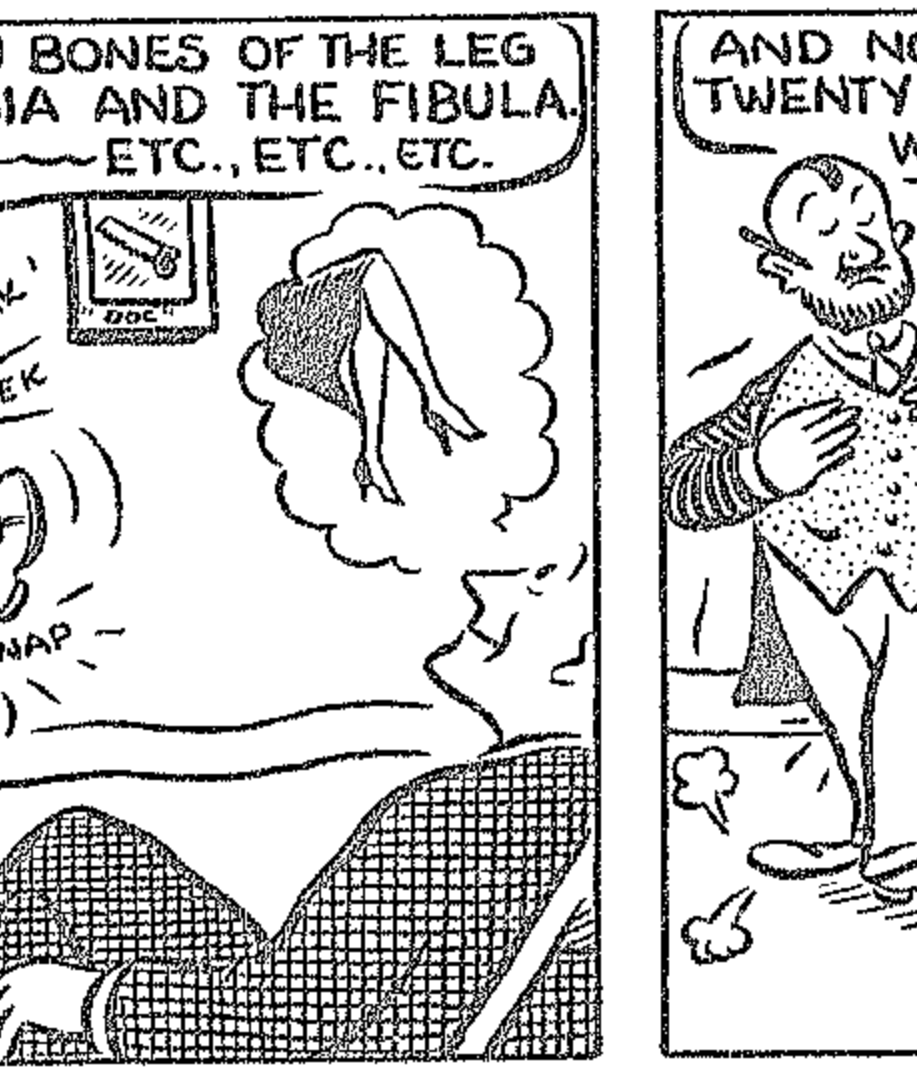
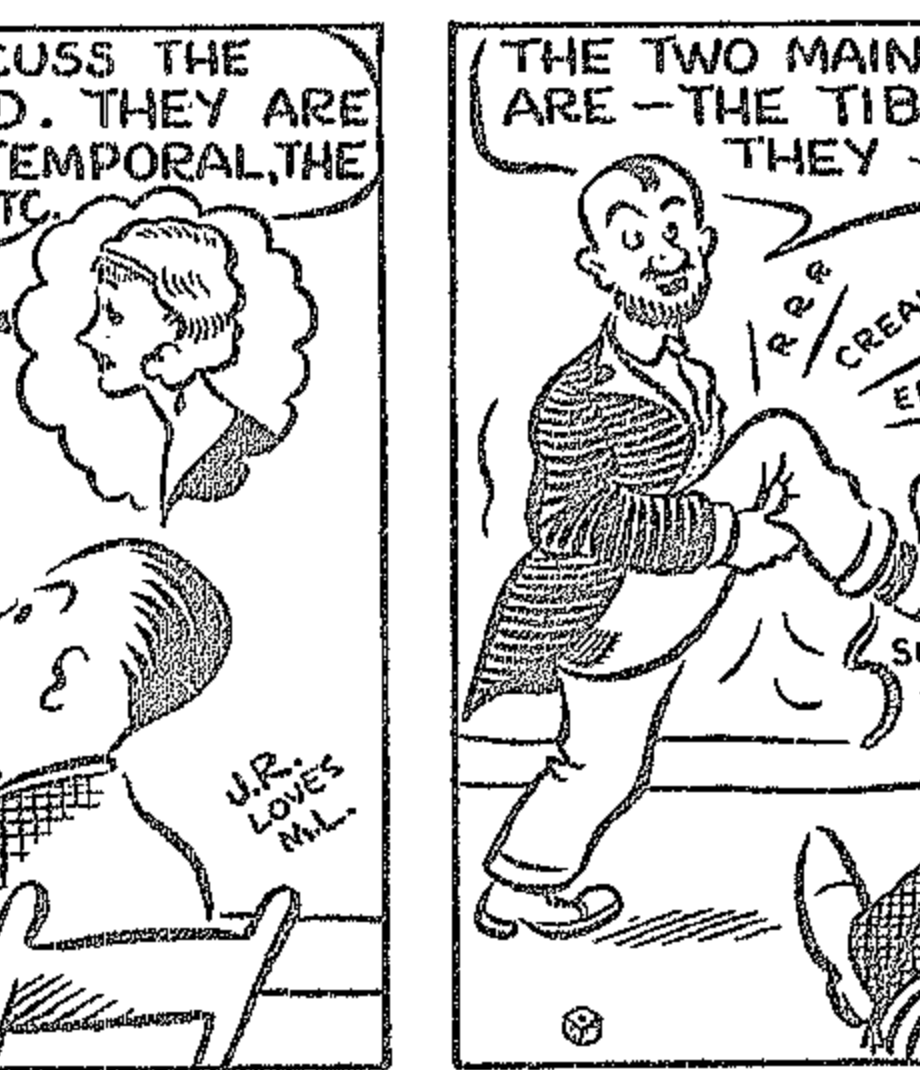
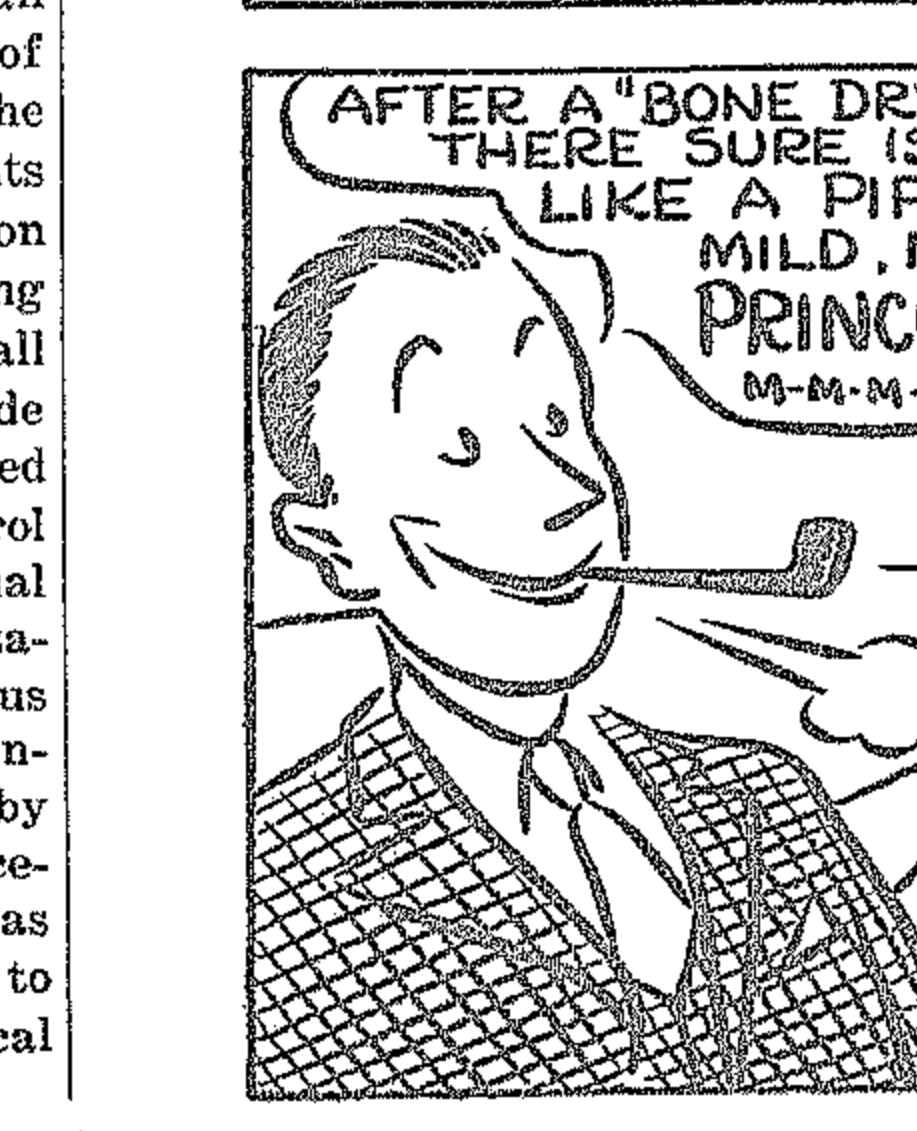
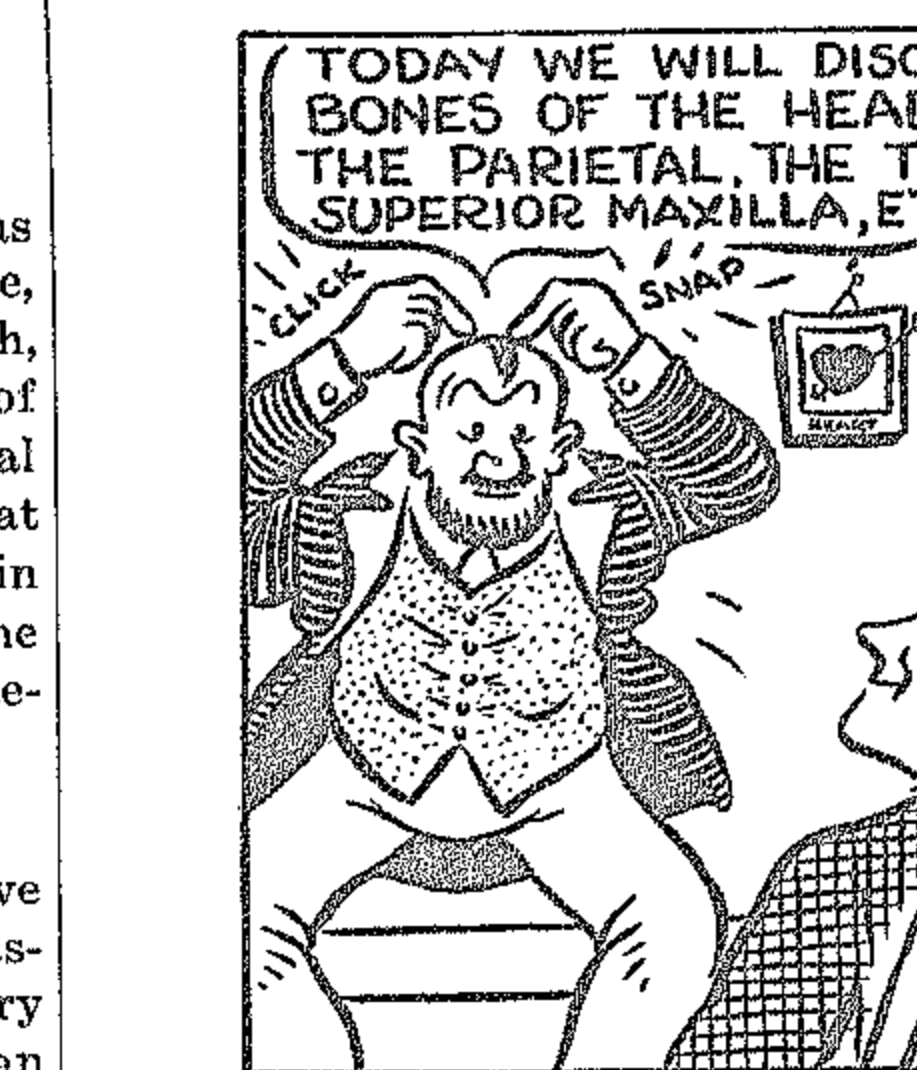
Since then the Institute has gradually moved in on the Mission, until last year when the two were finally and completely merged.



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