

## Arx News

In the Architectural Record of July, 1930, appears the announcement that Irving and Monroe Bowman, both of Armour, '28, have completed their plans for the first all-metal apartment building. The problem they sought to solve involved the building of an apartment house having a maximum useable floor area and the number of floors compatible with livability, economy, and yet within the building code.

The Bowman brothers, with their project in hand, contend that metal walls increase the net floor area, decrease heat loss, and the initial cost being less than masonry. The use of battledoor floors permit the addition of another floor and will still be within the height limit of the zoning ordinances.

Besides the metal walls increasing the useable floor area they decrease the dead load of the walls, increase the heat insulation value of the interior walls, eliminate the trouble from leaking walls and at the same time reducing the first cost of the building.

The saving with metal walls is 14 per cent of the net rentable area if it were built with brick walls. The larger the plan area, the greater will be the percentage of increased return on the equity.

An analysis of the various types of metal walls were made, including: Wall built of sheet aluminum with an aluminum framework within, and with waterproofing and insulation, etc.; wall built of sheet aluminum with steel framework within, and waterproofed and insulated, etc.; wall built of Allegheny metal, KA2. A wall built of "Ascoloy" sheets with steel framework was discarded because of the cost and the necessary maintenance.

Riveting sheets were discarded as impractical due to the difficulty of matching the holes in the sheets to the holes in the framework of the walls. Welding was discarded also due to the costliness of the process. The method used was to clamp the sheets to the framework with straps, all the edges being formed in the shop to permit lock seaming. With the use of Allegheny metal, no painting or maintenance is necessary for at least thirty years.

The metal walls are backed with 3-inch slabs of rock wool. This material is not to be confused with mineral wool or blocks of mineral wool. Six different types of construction were tried from the use of reinforced concrete floors with girders and columns to all steel battledoor floors, steel girders and columns.

On the internal side of the question it was decided to use electric heating. The heat loss of the

## EXAMINATIONS FOR REMOVAL OF CONDITIONS

Tuesday, Oct. 14—2:00 to 4:00 P. M.

Organic Chemistry (Ch.E. 14 and 18), Prof. Freud, Room C, Main Building.

Physical Chemistry (Ch.E. 37), Prof. Freud, Room C, Main Building.

Graphics Statics (C.E. 40), Assistant Prof. Grafton, Civil Drafting Room, Mission.

Hydraulics (C.E. 21), Assistant Prof. Grafton, Civil Drafting Room, Mission.

Wednesday, Oct. 15th—2:00 to 4:00 P. M.

Quantitative Chemistry (Ch.E. 7), Prof. Tibbals, Room C, Main Building.

Precision of Measurements (Physics 6), Prof. Doubt, Room C, Chapin Hall.

Thursday, Oct. 16th—2:00 to 4:00 P. M.

Engineering Mechanics (Mech. 1 and 2), Prof. Paul, Room D, Chapin Hall.

Applied Mechanics (Mech. 6), Prof. Leigh, Room D, Chapin Hall.

Hydromechanics (Mech. 4), Assoc. Prof. Mangold, Room D, Chapin Hall.

Experimental Engineering (M.E. 17, 30, and 31), Prof. Libby, Office, Mechanical Engineering, Machinery Hall.

Friday, Oct. 17th—2:00 to 4:00 P. M.

Steam Power Plants (M.E. 32), Prof. Nachman, Room A, Machinery Hall.

Physics—1, 2, and 4, Prof. Wilcox, Electrical Lecture Room.

Students who expect to take any of the above examinations are requested to report to the professor at least the day before the examination is to be given.

building had been reduced to approximately 41 per cent of the average popular fireproofing construction. The interiors are to be treated in a modern fashion. The rooms are to be indirectly lighted. The kitchens are to have mechanical ventilation with all electric equipment. The cabinet work is to be done in metal. The bathrooms are to have sunken tubs inclosed in plate glass. There is to be a central radio system.

In the Architectural Record for August, 1930, are views of the Bowman offices done in the modern style. An article on their idea is featured in the Baukunst and Stadtebau for June, 1930, with an article on the work of Frank Lloyd Wright.

## Announce Pledges To Fraternities

(Continued from page one)

Leroy Lynch, '34, C. E.  
William Muetzel, '34, C. E.  
Robert Simpson, '34, C. E.  
Frank Velat, '34, Arch.

### Triangle

Judson F. Bonnell, '34, M. E.  
William A. Malloy, '34, C. E.  
James F. Manly, '34, M. E.  
Marion R. Pierce, '34, C. E.  
John E. Schreiner, '34, C. E.  
Eric H. Smith, '34, C. E.  
Harold C. Stevens, '34, C. E.

## Campus Club to Hold Smoker for Members

Plans are being developed at the present time for a smoker to be held by the Campus Club. It will be held probably at the end of next week, and will be for members only.

The club is also organizing a basketball team to play all challengers. From the card players comes the report that a bridge tournament is in the offing, but that since some players know their partners too well there will be difficulties in proper refereeing.

Members of all classes at the Institute are welcome to join and spend their noon hour in a game of pinochle or with a magazine. A special invitation is extended to freshmen and new students. The rooms are on the first floor at the third entrance in Chapin Hall.

The Lockport plant is at the southern terminus of the Chicago Drainage Canal and develops 40,000 horse power from the forty-foot fall. The Drainage Canal was begun in 1892 and finished in 1900, at an expense of \$20,000,000.

### Kappa Delta Tau

Harold Goldman, '34, Ch. E.  
Norman Krause, '34, Ch. E.  
Milton Slazer, '34, Arch.

## Friday's Fire Drill Shatters Old Record

(Continued from page one)

marshals complimented the school on carrying out the various suggestions that they had made on their last visit to Armour.

For the benefit of the student body the fire alarms are listed below. The fire alarm is a prolonged blast of the siren in the main building, and three rings of the bells in the other buildings. On hearing the alarm proceed as follows:

(1) In Main Building, vacate the building at once.

(2) In Machinery Hall, vacate the building at once.

(3) In Chapin Hall, give attention to the next signal. If it is one ring, use the front stairways; if it is two rings, use the rear stairways.

(4) In the Mission Building, vacate the building at once, using any stairway.

The only criticism of the conduct that might be made is the fact that the students persist in remaining in the immediate vicinity of the building when they are outside. Worse still is the fact that many of them insist on standing in the middle of Federal Street where they would be endangered by any falling debris, in case of a real fire, or by the arrival of fire apparatus. The first students to leave the building should walk on the same side of the street until they are at least one hundred feet from the main group of buildings. In doing this they will leave plenty of room for those coming from the upper floors. If this one rule is observed in addition to the other simple rules, in the opinion of Mr. Allison, our fire drills would attain the heights of perfection.

## Thousand Men Enroll in Evening Classes

Night school registration started Friday, October 3, and when classes were scheduled to start, Monday, October 6, a large number were still enrolling. The number desiring to further their knowledge is smaller than last year. General decline in business conditions may be held accountable for the decrease.

Classes in Structural Steel Design and Architectural Drawing show a large drop in enrollment, while Mathematics and Electricity have a slight increase. Professor R. V. Perry, Director of Evening Classes, expects a few more men to enroll within the next week. Figures from the office give the approximate registration to date at about 960. This is about 200 less than were enrolled one year ago at this time.

The final enrollment figure will probably reach 1,050.

## Professor Hendricks Recovers Stolen Car

Professor Hendrick's auto was stolen last week from the front of the La Salle street station. A few days later he received notice that the car had been recovered and could be procured at Morris Eller's garage.

Professor Hendricks states that the auto was returned in good condition, but a brief case containing books and valuable papers was missing.

## Method of Nomination Decided on by Sophs

A meeting of the Sophomore Class was held last Monday in the Assembly Hall at 9:30. It was presided over by last year's president, R. W. Carlson. The first point of business taken up was the method of nomination for this coming year's officers. According to the general consensus of opinion of those present the system of nominating from the floor as used last year in addition to not being fair was a creator of too much disturbance.

After fifteen minutes of heated wrangling, the men decided to follow the plan of the upper classes and have nominations made by petition, thirty names being required to nominate a man for an office. The suggestion of forming tickets was emphatically voted down. The election will be held tomorrow from ten to three.

The members of the election committee for the Sophomore Class follow:

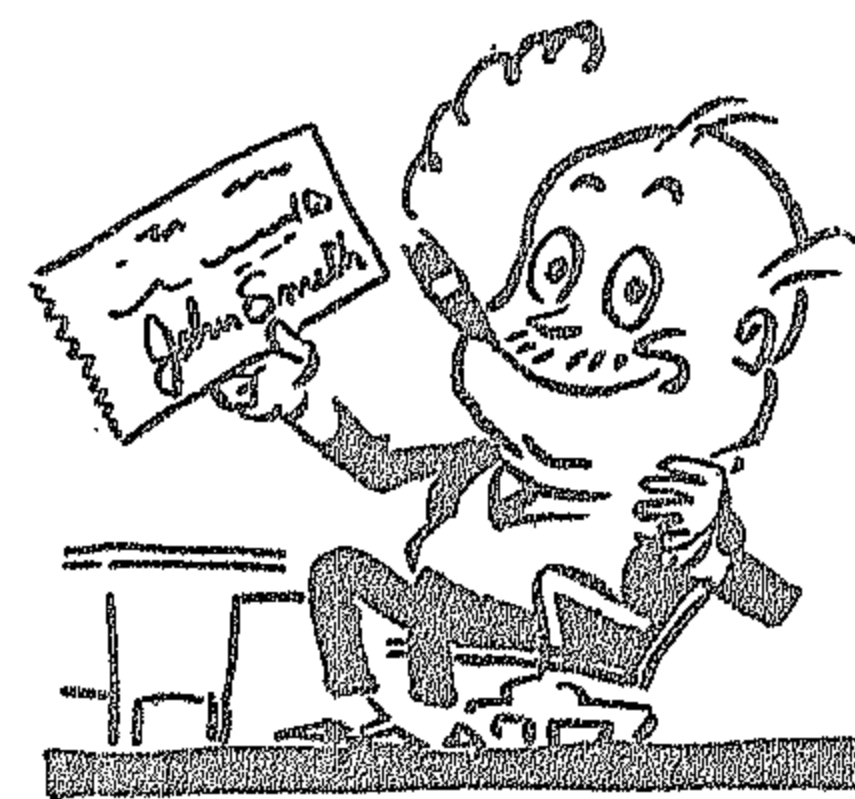
O. W. Staib, Chairman  
E. L. Curran  
J. R. Pechman  
T. D. Luckett  
J. R. Duncan

A very interesting picture of the Burnham Library is included in the October, 1930, issue of the Western Architect.

Students at Amherst formed a pool and bet on the numbers of the hymns to be sung in chapel.

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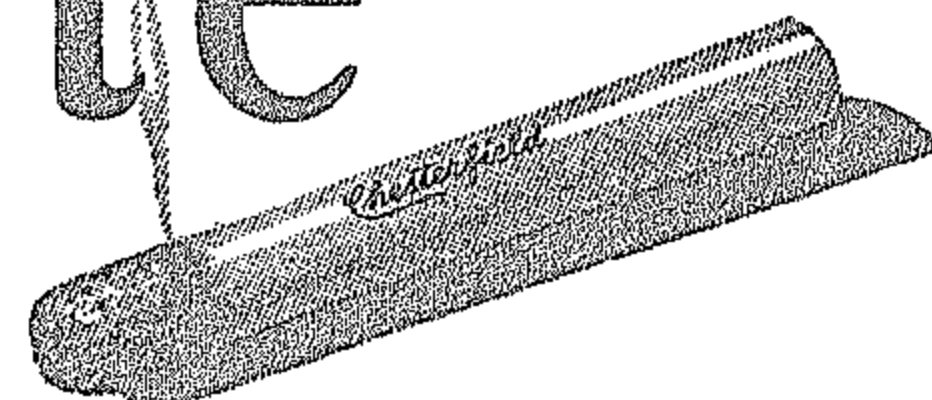
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