

ARX NEWS

The monthly meeting of the American Institute of Architects was held last Tuesday at the Architectural Sketch Club of Chicago.

B. Miffin Hood, former president of the American Ceramic Society and Professor Rexford Newcomb of the University of Illinois were the chief speakers. Mr. Hood's topic was, "The Value of Ceramics to Modern Architecture," and Professor Newcomb spoke on, "Ceramics of China and Japan."

Both talks were illustrated with slides. The Professor displayed several pieces of ceramic work he had collected on his recent tour around the world. Among them was a piece from the Church on the Rock, given to him by a friend in charge of remodeling operations on the historic structure.

Professor Newcomb is professor of History of Architecture at the University of Illinois. He is the author of many prominent books on the subject chief among them, Franciscan Mission Architecture of Alta, California, The Volute in Architecture and Architectural Decoration, The Old Mission Churches and Historic Houses of California, Architectural Monographs on Tile and Tilework, Outlines of the History of Architecture, and The Spanish House for America. At the next meeting of the society, May 17th, Ralph Adams Cram, prominent architect of church design will be the speaker.

In the recent Class A, II project, "A Cooperative Apartment Hotel," Marvin R. Dobberman, Everett Goldenberg, and Frank Polito rated 2nd medals.

There will be an exhibition of photographs of bridges by Charles S. Whitney at the Burnham Architectural Library during the week of April 9. This collection of photographs is of great value due to its completeness.

Mr. Whitney is a graduate engineer of Cornell University and has been engaged in many prominent engineering construction projects. He spent 15 months in France during the war with the engineers. He is a member of the American Institute of Consulting Engineers, American Society of Civil Engineers, and other engineering societies.

He is the author of many prominent books on engineering chief among them: Concrete Designers' Manual; Design of Symmetrical Concrete Arches; Bridges, A Study in Their Art; Science and Evolution; and articles appearing at various times in magazines.

At the last informal meeting of the freshman architects, William W. Davies was elected Massier of the class and Carl Schultz was elected Sous-massier.

The freshman architects challenge any team at Armour to a game of indoor baseball. The freshmen rate themselves high and send out their dare to everyone.

Architecture is the art which so disposes and adorns the edifices raised by man for whatsoever uses, that the sight of them contributes to his mental health, power and pleasure.

Ruskin.

We hope that the readers are interested in this column. We will gladly receive any comments or suggestions as to the contents and articles to be written here. Please give them to the editor or drop them in the News box by the side of the elevator in the Main building.

H. P. R.

Civils Hear Lecture on Paving Materials

Last Monday, April 7, the seniors in Professor Pearce's highway course and the juniors in Professor Well's "stresses" course attended an illustrated lecture on "Hot Paving Materials" from 9:30 to 11:30 in B. Mission. The talk was given by Mr. McClintock, a representative of the Warren Bros. Co., manufacturers of paving materials. Although the talk was originally intended to last only one hour, it was allowed to continue past its time because of the interest shown in the subject.

Alumni News

An announcement of marriage of Willys E. Thomas, M.E., '29, to Miss Mary Burnett of Oak Park, on March 22 has been received. Thomas is connected with the McQuaid Radiator Company.

O'GRADY PLANS TO REMODEL CITY

Dr. Omar O'Grady, '17, is going to remodel the city of Natal, Capital of three State of Rio Grande del Norte of Brazil. Six years ago, he was elected Mayor of Natal, and "courageously undertook the transformation of a typical drowsy tropical city in a picturesque setting into a bustling city equipped with efficient public services."

Dr. O'Grady has had the foresight to realize that Natal, owing to its unique, geographic position is destined to play a prominent part in international commercial aviation, not only between North and South America, but also on the Europe-Africa-South America route. His plan of remodeling of the city will make it one of the most attractive of modern cities as well as a thoroughly efficient aerial and maritime port. His photograph and an interesting article showing his plans of the city were published in the January 18 issue of the Brazilian American, the Business Builder Magazine of Brazil.

Robert F. Schreimer, a member of the Fire Protectors' class of 1917, died of appendicitis a short time ago. He was employed by the Home Insurance Company of Chicago at the time of his death.

PEASE FINDS LARGEST STAR

Mr. Francis G. Pease, '01, recently found the largest star known at present. He is an Astronomer and Engineer at the Mt. Wilson Observatory, Pasadena, California.

With the new instrument to be put in use stars larger than any now known may soon be found by astronomers at the Mt. Wilson Observatory. It is known as the fifty-foot interferometer, and consists of a steel "bridge" 54½ feet long on which move mirrors to pick up the light of a star.

Mr. Pease used a smaller instrument of the same type, attached to the 100-inch telescope, the world's largest, to find this new star. It is called Antares, in the constellation of the Scorpion, and is large enough that if it were hollow it would hold the solar system with the earth and other planets out to Mars, with 55,000,000 miles to spare on all sides.

Mr. F. G. Pease graduated from Armour in 1901 in the Electrical Engineering course. He received his M.S. degree in 1924 and his D.Sc. degree in 1927.

INVESTIGATE RADIO CONDITIONS

W. Oldenburger, C.E., '14, who is now in charge of the affairs of the Pilot Radio and Tube Company in Mexico City, has recently completed arrangements for a tour of South and Central American cities in the interests of radio developments. The tour, which is now in progress, is being made by plane. Zeh Bouck, well known radio writer, is accompanying the pilot, William H. Alexander.

The plane is equipped with complete radio transmitting and receiving apparatus for the purpose of investigating the radio conditions in the country through which the tour is to extend. The success of radio communication over the route selected by the sponsors will furnish valuable information for future development. The terrain over which the ship is to fly will likely create differences in the radio transmission and the determination of such phenomena is one of the objects of the trip.

Dean Penn Attends Memphis Meeting

Dean Penn is attending the annual meeting of the American Association of Collegiate Registrars held this week from April 14 to 18 at Memphis, Tennessee.

The business program is one of exceptional interest and includes an address by Dr. Ray Lyman Wilbur, Secretary of the Interior, and former President of Leland Stanford University.

High Speed Engine Given Severe Test

A novel, eight cylinder, high speed steam engine was in the mechanical department for testing and experimental purposes. The engine was of the single acting V type, having the same general aspect as that of the new Packard motor.

The manufacturers claim that it will develop 200 horsepower at 3,000 revolutions per minute, and it is the purpose of our engineers to determine the accuracy of this statement, as well as to estimate the engine's efficiency and its practical worth.

Pumps, generators, lathes and drills have been operated very satisfactorily by this new machine, and it is probably destined to be utilized extensively in the future for a great variety of purposes.

Junior Chemicals See Linseed Oil Process

Hydraulic presses attaining a pressure of 3,800 pounds per square inch and huge filter presses were the features of the inspection trip taken by the Junior Chemical class through the Hirst and Begley Linseed Oil works.

The raw flaxseed, explained the superintendent of the plant, is taken from the trains and elevated by conveyors to the top floor of the building. Here it is sifted to remove any oats, hay or foreign material and then sent to the crusher. From here the mash is sent to be heated in steam jacketed kettles. It is then wrapped in cloth to keep it in a cake and subjected to a pressure of 3,800 pounds per square inch in the hydraulic presses for about one hour.

The oil which is pressed out is filtered through the filter presses and stored for shipping as raw linseed oil or else boiled with manganese dioxide to form boiled linseed oil.

The cake left in the presses after the oil is removed is ground up and sold for feed.

The Hirst and Begley plant, although not the largest in the city, has the largest daily capacity of any plant in this section.

Majority of Students Pass Condition Exams

Examinations for the removal of conditions were held during the week of March 3. The results which are indicated after each subject show the number of students taking and passing the tests.

Thermodynamics	7	2
Senior Steel Const.		
(Arch.)	5	5
Structural Design		
(F. P. E.)	5	4
Phys. I	28	21
Phys. I (Arch.)	10	5
Phys. II	4	1
Business Law	10	9
Precision of Meas.	12	9
Mech. Mat. and		
Graph.	11	5
Mech. I	27	19
Mech. II	1	1

Leigh and Mangold's Mechanics Book Out

Several notable changes have been incorporated into the new edition of Leigh and Mangold's text on Mechanics. It has been enlarged considerably and contains a large quantity of new material which will make it large enough to accommodate the architects in a one-year course and will be easily adaptable in form to night school, vocational and agricultural school courses which require something of a concise and practical nature such as this new text.

Several chapters have been added on the subject of statics, which was not dealt with very extensively in previous editions.

The authors had one definite purpose in mind when they made up the new edition, namely, that the subject should be handled in such a way that a good foundation for strength of materials should be obtained. This last feature is rather unique in its application and it is believed that this type of text will fill a long felt need for something of this type.

Tibbals Writes for March "Chem. & Met."

In an article in the March issue of *Chemical and Metallurgical Engineering* on "Forestalling Industry's Fire, Explosion, and Poison Hazards," Professor Tibbals of the Chemistry department, describes the Explosion Testing Station of the Underwriter's Laboratories. This station, which is unfamiliar to most Armour students, is located on a tract of land near Lemont, Ill.

"In recent years," Professor Tibbals states, "It has become important for the laboratories to conduct tests covering:

1. The resistance of safes of certain types to explosive attack with nitroglycerine or other high explosives such as may be employed by burglars.
2. The explosive properties, if any, of certain materials when subject to fire conditions, percussion or high explosive shock. Such materials include certain types of synthetic fertilizer ingredients.
3. The performance under fire conditions of cabinets for the storage of cellulose nitrate photographic film, and other devices containing materials which may give off explosive or poisonous gases or smokes.
4. The hazardous characteristics of "poison gases" for commercial use as fumigants.

Tract Acquired in 1929

To the end that such tests might be carried forward effectively and safely the Laboratories acquired in 1929 the tract of land near Lemont. This tract has been developed into a complete testing ground which includes:

1. A chemical laboratory especially equipped for the preparation of nitroglycerine for use in high explosive attack on safes. It is effectively guarded by rock barricades and a barbed wire fence.
2. An explosion room for making tests with high explosives upon safes, cylinders, etc. This room has a heavy concrete floor, heavy rock barricades as walls and a roof of steel rails.
3. An explosion pit protected by rock barricades and covered with a roof of steel rails, used for testing materials to determine whether or not they are liable to explosion or detonation under fire conditions or under explosive shock.
4. A laboratory for use in testing poisonous gases and devices intended for the use or storage of poisonous gases or which may evolve poisonous or explosive gases under fire conditions. This building is built of steel on a heavy concrete floor. It is practically gas-tight, and is provided with small mica windows for observation, facilities for the collection of gas samples for analysis, and for the operation of a sprinkler system.

Barricaded Retreat

A heavily barricaded retreat is provided for the safety of personnel during explosions.

Water is taken from a lake on the property by means of a small power house, and proper magazines are provided for safe storage of explosives and detonators.

The article is illustrated with many pictures of both the Laboratories on Ohio street and the Lemont Laboratories. Professor Tibbals is employed as Special Chemist for the Underwriters.

A.I.Ch.E. Holds Annual Smoker

The annual smoker of the A. I. Ch. E. was held at the Phi Pi Phi house, Wednesday evening, April 9th. As fast as the men present could empty the bowls of candy and peanuts they were refilled as though they were supplied from the Horn of Cornucopia.

An entertainment of varied nature was presented. E. P. Boynton, after a brief introduction by J. Tarman, president of the A. I. Ch. E., recited the "Shooting of Dan McGrew." At the psychological moment the lights were extinguished and the shooting commenced. Because blanks were used no one was injured. C. E. Morris next read his original poem, "Ode to the Odor of H₂S." The Schmier-Chemiker Trio, composed of J. R. Goldman; C. E. Morris, and P. M. Ruzevich next sang a number. To show that each member of the Trio was talented, three solos were sung. Ruzevich started with "Dream Train," Morris followed with "The World Is Waiting for the Sunrise," and Goldman concluded with "On My Big Bass Viol." A dissertation, the "Determination of the Atomic Weights of the Four Elements," was read by O. R. Steinert. Dean Penn, Professor McCormack, and Dr. Freud concluded the entertainment with brief talks.

Following the entertainment the men were divided into two groups to have their pictures taken. According to latest reports the cameras are still in good shape. The picture taking over, each man returned to his respective game. Among the games bridge and poker seemed to predominate. "Griff" and "Harold" were also among the notables of the Chem department present. Almost the entire freshman class was present and all agreed that whenever there was an A. I. Ch. E. smoker in view they would be sure to see that their schooling did not interfere with their pleasure.

Contest Announced to Name New Train

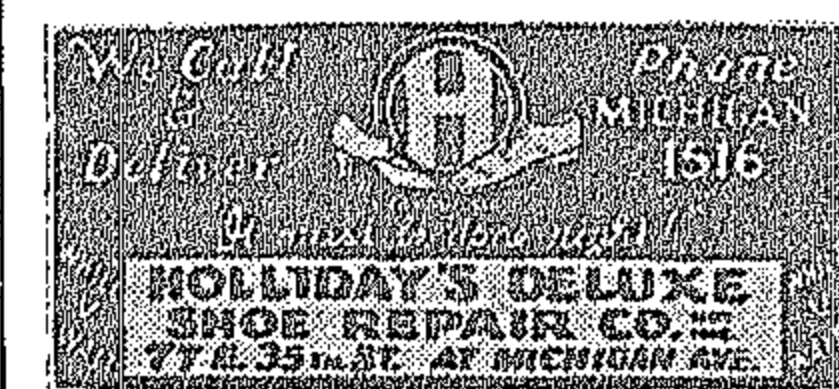
Collegiate America is being asked to create a name for a new crack passenger train to be operated between Chicago and St. Louis, Missouri, by the Chicago and Eastern Illinois Railway. The appeal for a name is being made by E. H. Batchelder, General Passenger Agent of the railroad, who will award prizes totaling \$150.00 to the persons who submit the two best suggestions. The person whose suggestion is finally accepted will be given a check for \$100.00, and the one presenting the second best name will be given \$50.00.

The contest will close April 30th, and the names of the winners will be announced on about May 15th. Suggestions for a name should be marked "Name Contest" and addressed to E. H. Batchelder, General Passenger Agent, Chicago and Eastern Illinois Railway, 922 McCormick Building, Chicago, Illinois.

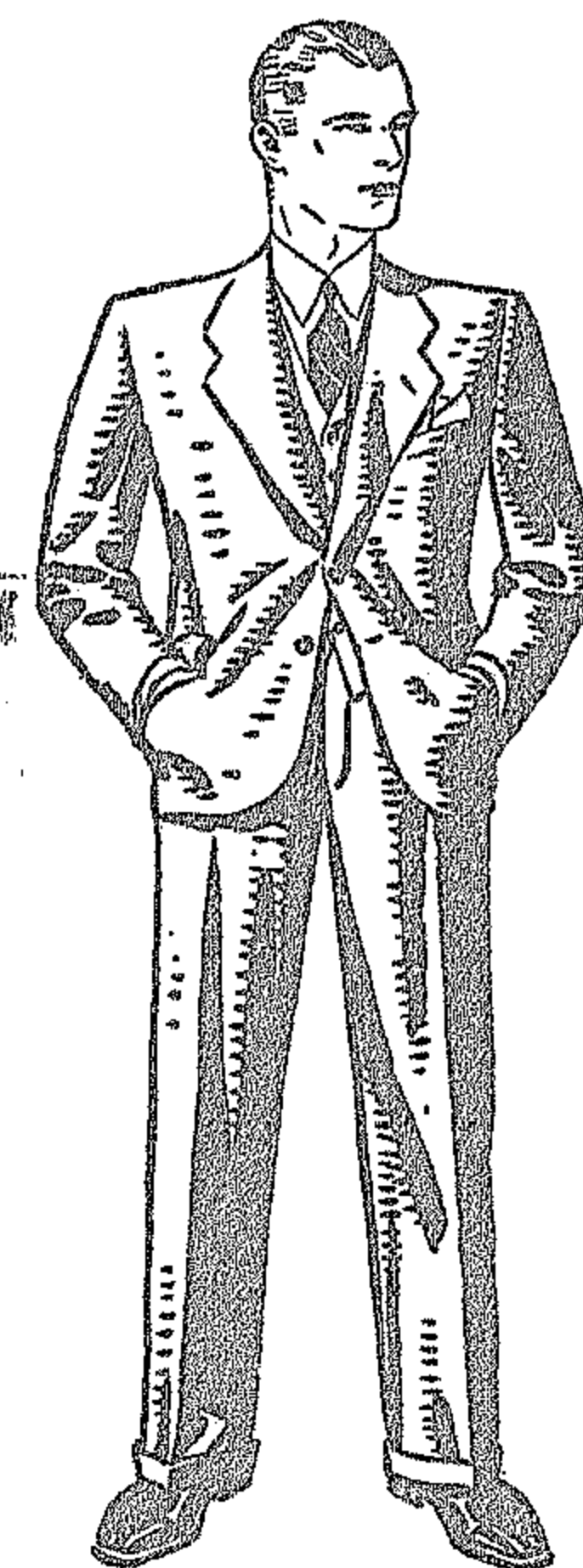
The new train now to be named will leave Chicago about 3 p. m. daily and arrive in St. Louis before 10 p. m. The eastbound train will leave St. Louis at 8:45 a. m. and will arrive in Chicago early the same afternoon.

New Summer School Bulletins Now Ready

The new summer school bulletins are in the office ready for distribution. Practically all of the regular courses are offered in the summer school session that begins June twenty-third and ends August first this summer. Some of the regular four year courses include a scheduled summer school course, such as the civil camp.



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