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Armour Institute of Technology, Chicago, Illinois

Tuesday, November 3, 1931

JINX STILL HOT ON TRAIL OF ONE MAYNARD VENEMA

Senior Chemical Tries Hand at Mural Decorating REACTION GOES AWRY

Maynard Venema has again revealed those hitherto unsounded depths of technique which won for trip was the large and powerful elehim the unanimous election to the exalted ranks of Schmier-Chemiker

last week. While it is descouraging to view this concentration of talent in one individual, a man who can repeat silver lining. If any doubt existed coal gas, and ammonia liquor. about Venema's eligibility for last

bodings. once brings memories of the Industrial Lab ceiling. Painting a cloud is something of an accomplishment for even the most skillful artist; painting a cloud on a ceiling must be harder yet. Venema claims that it takes practically no time and very little effort. Anybody who can point to his achievement with justifiable pride the way he can, is entitled to speak with authority, for his is truly the work of a master.

be overdone, especially in view of by the Senior, Junior and Sophothe high costs of interior decoration, more Civil students lasts Friday. since chemicals, unlike oil paints, have the unhappy faculty of changand bigger clouds on laboratory ceil- that were present. ings may be frowned upon by the custodian of the bankroll.

future aspirants to the exalted brotherhood refrain from such violent and colorful demonstrations to prove | Civil Department of Armour in their worth.

After all, a cloud of smoke or a minor blaze is just as full of possibilities for excitement and under the right conditions, easier on the sur-

roundngs. Ratner, who also won the cherished honor last week, seems to be highly exhausted from his efforts and is at present recovering from that tired feeling by seizing judicious and very beneficial naps in Professor Carpenter's metallurg class.

Professor Bibb Is Rapidly Recovering

Professor Bibb, of the mathematics department, underwent a thyroid gland operation on Monday, October

He has been absent from school because of illness since the beginning of the semester, but is showing rapid recovery after the operation. Anyone who wishes to see him and cheer him up will find him convalescing at the Woodlawn Hospital, Sixty-first Street and Drexel Boule-

vard. It is hoped that he will recover sufficiently to return to school and resume his teaching some time before Christmas.

Bell Representative To Speak Here Friday

Through the courtesy of the Illinois Bell Telephone company, a representative of the American Telephone and Telegraph company has been obtained to speak at the meeting of the Armour branch of the A. I. E. E. to be held Friday at 10:20 in D-Mission.

documents, checks, fingerprints, and photographs.

Chemicals Visit New Coke Plant

An inspection trip to the Coke plant of the Youngstown Sheet and Tube Company at East Chicago, Indiana, occupied the afternoon for the senior chemicals last Tuesday, October 27.

In the process of obtaining coke from coal, numerous other industrial products are obtained, such as coal and pitch. The coke is manufactured for use in the main plant where iron is obtained from its ores.

vator, which lifts a car containing 100 tons of coal every three and onehalf minutes and dumps the coal into | efficiency approaches 100 per cent. large bins.

This coal is taken to the distilleries where all volatile matter is removed. that which others can hope to do only | The four fractions obtained from the once, his cloud is one which has a first distillation are coke, coal tar,

The latter three fractions are brokweek's award, the sulfonation affair en up into the constituent chemicals. of last Monday has removed any fore- | Creosote and pitch are obtained from the coal tar, phenol and ammonia Speaking of clouds, however, at | from the ammonia liquor, and phenol | and toluol from the coal gas. The waste heat from the ovens is used in the distillation of the coal tar.

A new plant has been installed recently to recover the chemicals pres ent in the ammonia liquor.

Ogden Avenue Bridge Civils Inspected by

The Ogden Avenue Improvement Of course, this sort of thing can was the scene of an inspection trip

The students met at Division and Halsted streets at 1:00 P. M. Proing color with time. For this, and | fessors Wells, Ensz, Grafton, and other reasons, the appearance of more | Jacobson were the faculty members

The Improvement is being constructed by the Ogden Avenue Con-On this account we suggest that | struction Company. Mr. Langdon C. Hardwicke, who is Superintendent of Construction, graduated in the

> The portion of the Ogden Avenue Improvement now being constructed forms the last link in the improvement and connects up the two completed portions which extend from Lincoln Park at Clark and Center Streets to Division and Halsted Streets and from Randolph Street to Chicago Avenue. This portion is two-thirds of a mile in length and extends from the right-of-way line of the Chicago and North Western R. R. to the west street line of Rees Street. It will eliminate two street car crossings, the grade crossing of thirteen railroad tracks; separate the traffic on Ogden Avenue from that on North Halsted Street and Ogden Avenue through-routing through one of the busiest industrial sections of the city.

The improvement crosses the North Branch of the Chicago River by means of a two-leaf trunnion bascule bridge. In designing this bridge it was necessary to use three railing height trusses in each leaf, thereby permitting a reduction in the depth of the floor beams. This reduction was necessary in order to (Continued on page 2)

Professor Spears Lectures to W. S. E.

A meeting of the Western Society of Engineers was held last Friday at 10:30 a. m., in B. Mission.

Professor Spears delivered the lecture. His topic concerned the building of a hanger for the "Ak-less irregular members, the fact ron," the navy's newest and largest dirigible.

dirigible, some interesting problems en years of service. This notein the design and construction of worthy event occurred last week, The intricacies of the telephoto the hanger were encountered. The when he was five minutes late for system will be explained in the talk. hangar is built up of parabolic rehearsal. The name telephoto applies to the arches. In the preliminary contransmission of photographs by struction the three-hinged arch is wire, and the service includes also employed but it is finally built up 17th. Among the numbers sung at the sending and receiving of fac- into an arch of two hinges by the this time will be: "The Song of the similies of such things as important | introduction of permanent upper | Jolly Roger", "A Song of Ships", and lower chord members at the top hinge.

PROFESSOR ROESCH MAKES TESTS ON NEW INSTRUMENT

A new device for determining the completeness of combustion in gas | Sherman Hotel. The collection conengines is now on exhibition in the sists of every model of locomotive Automotive Laboratory and is being tried by Professor Roesch and his of heavy mountain design. Ebony, senior mechanicals This indicator, gas, ammonia, benzol, toluol, creosote, developed in the last two years, is | called the Casam-instrument. It has already been put to good use by Captain Hawks in some of his re-The most impressive sight on the cent record-breaking flights. Its merit lies in its permitting the most economical setting of the carburetor by observing when the combustion

Briefly, this efficiency is determined by passing a sample of the exhaust gases, mixed with a considerable amount of air, over the two arms of a Wheatstone Bridge. One of these arms is arranged to act as a catalyst to cause the unburnt gases to burn at a lower temperature. The additional heat produced renders an unbalanced circuit in the Wheatstone Bridge thereby deflecting a galvanometer.

When there is no combustible material in the exhaust gases, the two arms of the bridge are equally heated and the scale of the galvanometer is marked 100 per cent. Most gas engines, however, show some unburnt or partially burnt gases in the exhaust such as CO, CH, and other hydrocarbons unless mixtures are so lean that starting is difficult.

Practical ratings for automobile engines are 85 per cent combustion efficiency as indicated by this instrument. Captain Hawks was able to adjust the carburetor from the pilot seat and so maintain the heat mileage or maximum power from the gasolene.

See Water Softening and Treating Plant

trips planned by Protessor Bentley, | repeated in the near future. the junior chemicals visited the Hins-Thursday, October 22, from 2:00 to A. I. Ch. E. Will Hold 4:00 P. M.

This plant, which is one of the most up to date water treating plants in

ing Hinsdale abounds in limestone deposits, and hence the well water is very hard. This water caused such as are in most homes, by the precipitation of various dissolved pany. chemicals which clogged up pipes and reduced the efficiency of boilers. These troubles are eliminated by the present water softening plant.

The efficiency of the plant is unquestionably high in the matter of removing undesirable chemicals.

It is properly spoken of throughout the country as the "one man plant." W. P. Case is in charge of all operations, his official titles being Foreman, Chemist, Head of Maintenance Department, etc.

The only operation in the treat-(Continued on page 3)

Christmas Concert Program Planned

At the last meeting of the Glee Club the newly elected officers assumed their duties in full force.

As an inspiration to the more or might be mentioned that the director, Dr. Protheroe, has been late for Because of the great size of the rehearsal only once in his six or sev-

The probable date of the winter concert is set for about December "Jolly Fellows", and "A Little Close Harmony".

Warther Display of Models Here

Dean John C. Penn has recommended seeing the Warther Collection that is now on exhibition at the from the very first to the latest type ivory, and abalone shell were used the campus fraternity houses. in the carving of these unusual models.

Ernest Warther, an American of Swiss descent, made the locomotives from sketches and blueprints that he was able to procure.

Many of the models that are usually seen at exhibits of this nature are merely models from the standpoint of appearance. Those in this collection however, are true in every detail, even down to the tiny bolts and nuts which have actual threads and screwdriver slots.

hibits a very finished and realistic letics at Armour, being supplanted in appearance. Since the parts were that capacity by the Armour Tech made to specifications taken from Athletic Association. It now exists scale drawings, all proportions have as a society to promote athletics and been preserved to a scale of one half | to bind the letter men together. As inch for one foot.

includes about twenty-five units and | charms, a star being engraved for is in itself an eloquent history of the each sport award. progress in mechanical engineering which has given us a great modern convenience.

While the early types were built chiefly to satisfy given load condiitions without breaking down in service, the most recent developments in engineering have made it possible to get other desirable features. Among these are the high efficiency and speeds characterizing the passenger trains operating on through schedules between distant cities.

To read a history of railroading from the very beginning would take considerable time, more time, perhaps, then we can very well spare. However, the subject is too interesting to pass by and the opportun-As one of a series of inspection ity offered is one that may not be

Meeting This Friday

Students in the department of the United States, was finished in chemical engineering will hear a 1925. It was completed in a year lecture on the crushing and sampling as much interest outside of school Dramatic Club Holds and one half at a cost of 175,000 dol- of ores, at a regular meeting of the as it is in. Recently a photographer First Meeting Nov. 6 A. I. Ch. E. to be held this Friday, from the Evening American hurried The region including and surround- | November 6, at 10:30 in the Physics | Lecture Room.

teresting one and is to be given by trouble in steam generating plants, a representative of the Raymond Brothers Impact Pulverizing Com-

> Speakers for meetings, which are held every two weeks, are obtained by correspondence with many industrial organizations. At present an attempt is being made to secure R. B. Harper of the Peoples Gas Light and Coke Company to lecture on the World's Fair Exposition to be held at Chicago in 1933.

Students in other branches of engineering are invited to attend the various meetings.

CALENDAR

Tuesday, November 3 5:00 P. M. Orchestra practice,

Assembly Hall. 5:00 P. M. Meeting of candi-

dates for basketball team, Gymnasium. Wednesday, November 4

5:00 P. M. Stresses and Strains Practice, Assembly Hall. Thursday, November 5 2:00 P. M. Junior Chemical In-

spection Trip. Friday, November 6 5:00 P. M. Boxing Practice,

Gymnasium. 10:30 A.M. A. I. E. E. Meeting. D Mission.

Gymnasium.

10:30 A. M. A. I. Ch. S. Meeting, Physics Lecture Room Monday, November 9 5:00 P. M. Boxing Practice in

Honor "A" Plans Annual Banquet

The annual banquet of the Honor "A' Society will be held December 1, after the Varsity-Alumni basketball game. This was decided at a meeting held last Friday, but the place has not been chosen definitely, except that it will be held at one of

An election of a secretary was held and of the two candidates, E. Sademan and R. Carlstrom, the latter was elected.

Bids to membership are being extended to a number of upperclassmen who have been active in sports.

H. C. Rossing is president of the society, and F. A. Ustryski is vice president.

Society Founded in 1914

The Honor "A" Society was founded in the spring of 1914 and is one a mark of disinction on the campus The range of locomotive models the members wear small gold "A"

City Papers Await Adorning of Frosh L. G. Wilkie.

Interest in freshman hats has R. E. Long. now risen to such a point that before long actual specimens may be ing in conjunction with the Cycle

oughly canvassed and the majority tures this year will not be more seem enthusiastic about the plan. than that in previous years but The facts at hand indicate that most | may be less. The company to which of the freshmen are not opposed to the contract will be awarded will the idea of wearing skull caps. They | be decided upon by the end of this realize that such an increase in col- week. The committee is headed by legiate atmosphere would be very desirable. Since skull caps are so common at other schools, the adoption subjecting the freshmen to the ignominy of the more revolutionary Eugenies.

Dailies Getting Anxious

This venture is attracting almost to school to take pictures of the hatting event but was disappointed. The lecture promises to be an in- Last Wednesday, a Herald and Examiner representative telephoned the school officials and asked to be informed of the developments of the

work, consisting of J. R. Jackson, Jr., J. R. Fernbach, and J. L. Lynch of the senior, junior and sophomore classes respectively, is of the opinion that the time honored skull caps are more appropriate for Armour than the recent Eugenie style.

Freshman Breaks Arm In Gymnasium Wishap

Mitchell Dojnick, '35, fractured his arm last Monday between 10:30 and 11:30 while participating in a basketball game in the school gymnasium.

Playing the position of forward, Dojnick dribbled the ball down the soon as possible. floor with a burst of speed. In some manner he collided with two other players and was hurled toward the wall. In order to check himself, he extended his right arm, but crashed student body, where such entertainwith such impact that the arm was broken.

He was taken to Mercy Hospital by Dean Penn, where Dr. J. F. Mc-Namara, the Institute's medical adviser, administered first aid, and set the fractured arm. It is expected been pledged to Salamander, honthat Dojnick will return to his orary F. P E. fraternity. The pledgclasses some time this week.

notice of this unfortunate injury, pledged, has the highest scholastic and be more careful while playing average of the junior fire protection basketball.

FOUR COMMITTEES OF SENIOR CLASS COMPLETING WORK

Jackets on Exhibition in Trophy Case Today

PRICES REDUCED

Four of the senior class committees have started the work for which they were formed and will announce the results of their activity in the near future.

The jacket committee has visited seven companies and has finally decided upon the firm of Rexford and Kelder. This firm manufactures senior jackets for Northwestern University, and the Universities of Mich-All movable parts on the originals of the oldest existing organizations igan and Wisconsin. Their price is have been made movable in the mod- at Armour. It was organized origi- more reasonable than that paid in els. This results in giving the ex- nally as the governing body of ath- former years. Seniors may obtain jackets this year at \$7.50, a saving of one dollar.

It is planned to have a sample jacket on exhibition today in the trophy case, on the first floor of the main building. In the near future a man will be sent to the Institute by the company to measure those who wish to order jackets.

The following men compose the committee:

- T. A. McGill, chairman.
- V. R. Candberg.
- J. Palma.

The photograph committee, workseen and appreciated on our campus. editorial staff, has received bids The upper classes have been thor- | from four studios. The cost of pic-Oscar Eskonen.

The decision as to which of two concerns to chose for the job of of such a distinguishing mark would | handling the senior announcements achieve the desired result without lies with the committee headed by J. R. Jackson Jr.

> E. A. Scanlan, Jr. reports that his committee on senior jewery is at work and will soon show results.

There will be a meeting of the Dramatic Club, which is in the process of being formed at Armour, next Friday, Nov. 6, in the Tau Beta Pi rooms from 5 to 6 o'clock.

The rooms are located on the third floor, first entrance of Chapin The committee, in charge of this Hall. To date about twenty-five men have signified their intention of joining the club. The prospective members are equally proportioned between all the departments of engineering, and in view of this fact the drama club should be a success from the technical stand-

> Among the business to be taken: up will be the choosing of an appropriate name for the organization. A mysterious name or one which must be looked up in the dictionary for the meaning is wanted. Anyone with ideas on the subject please express them to the committee in charge. There will also be an election of officers so as to get the club organized and in working order as

> The object of the Dramatic Club is to furnish entertainment in the form of one act plays at any of the various smokers or meetings of the ment is needed.

SALAMANDER PLEDGES CLANTON

Carl Clanton, F. P. E. '33, has ing took place Wednesday, Oct. 28, Students taking gym should take at 2:00 P. M. Clanton the only man engineering class.