



ARCHITECTS PUT FRESHMAN THRU INITIATION PACES

Emil J. Minx, Massier, Heads Group; Martin Braun, Sous-Massier

BANQUET CLOSES DAY

The initiation of the freshman archs into the Armour Architectural Society was held on Friday, March 14. Most of the initiation took place in and about the Art Institute and Grant Park. The sketch problems that had been issued to the new men were judged in the open, Grant park to be specific. They were judged on the basis of points, each man receiving his quota of points under the personal direction of the jury, which consisted of the other three classes. Horse-fights, singing lessons, and other novelties took up the whole of the afternoon devoted to the initiation.

The freshmen were divided into groups of about ten each, and under the direction of upper classmen were conducted about the loop. They created quite a sensation among the downtown shoppers, by their antics. Later in the afternoon they all returned to the Art Institute, where they furnished more entertainment for the other classmen.

In the evening the architects held their annual dinner at the Architects' Club. Mr. Andrew Rubori of the firm of Rubori, Wentworth and Dewey of Chicago was the principal speaker. The other speakers of the evening were Mr. Reed, Dean of the Architectural school, Dean Palmer, and Dean Penn. Emil J. Minx was the toastmaster.

Mr. Minx introduced Mr. Reed, who after a very interesting talk on his associations with the speaker of the evening, introduced Mr. Rubori. Mr. Rubori was born in New York City and there had his schooling and practice as an architect. Upon his coming to Chicago he was in charge of the architectural department of Armour for several years. M. Rubori spoke of his association (Continued on page 3)

Electricals See Radio Factory

Wednesday, March 12, thirty-two Senior Electricals and members of the Radio Communication class inspected the Grigsby-Grunow radio factory where the Majestic sets are manufactured.

The trip followed one made some time ago when the class visited the factory where the cabinets are designed and assembled.

The purpose of the trip was to study the methods employed in the factory, while an assistant engineer made a short talk on the merits of the radios, explaining that the Grigsby-Grunow Company is contemplating manufacturing electric refrigerators some time next year.

Evening School Class Hears Economic Talk

Mr. N. C. Coppock, outside plants engineer for the Illinois Bell Telephone Company, spoke on the economic problems of the equipment and plants of the telephone company last week in Professor Freeman's evening school class of Engineering Economics.

Only two more weeks are remaining of the scheduled ten lectures. The engineers have to work and hand in ten problems before they receive credit for the course.

Schedule Taking of Cycle Group Pictures for Today

The group picture for the 1930 Cycle, which were postponed last Tuesday because of unfavorable weather, will be taken today, unless the weather again is adverse, in which case they will be taken tomorrow. The schedule appears on page three and should be followed closely.

The Junior class picture is first on the list, being scheduled for 9:00 A. M. in Ogden Field. The Sophomore and Freshman class pictures follow in order at 9:30 and 10:00 o'clock respectively. The men in these pictures are to assemble in Ogden Field a full five minutes before the time scheduled for the picture.

The clubs and departmental societies are to be taken in order as shown on the published schedule. They are arranged to be taken at convenient times for the greater number in each group.

Two additions have been made to the schedule. The Inter-Honorary Council picture is to be taken in front of the main entrance at five minutes after one o'clock and the Inter-Fraternity Council five minutes later at the same place. With the exception of these two additions the schedule is the same as was planned for last week.

Civils Attend Railway Show

Senior, junior and sophomore civils made an inspection trip Wednesday, March 12, at the exposition given by the Railway Appliances Association, at the Coliseum.

The exposition dealt chiefly with machines and systems for increasing safety, reducing cost of repairs and installation, and minimizing labor in railroad work. There were several exhibits showing the work actually being done, such as one in which a power driven adzing machine was constantly at work preparing timbers for use. There were many small moving picture projectors showing various phases of construction and repair work, and several model engines of various types constantly running at low speeds to display their principles of operation.

The exposition is an annual one and is held in conjunction with the meeting of the American Railway Engineers' Association.

Glee Club to Attend Male Chorus Recital

Doctor Protheroe's Welsh Male Chorus will give a concert at Orchestra Hall on Thursday evening, April 3. The members of the Glee club will attend it.

All students interested in hearing it can obtain cut-rate tickets for 75 cents from W. Manske, '30, president of the Glee club.

Nelson Speaks Before Alumni Association

The monthly meeting of the Alumni Association was held at the Engineers Club, on Tuesday, March 4. The speaker was Mr. B. G. Nelson, of the University of Chicago.

Mr. Nelson presented a talk on the various ways of making public speeches. He pointed out the dangers involved in speeches of supplication, and approved of the development of quick repartee to prevent the opposition from gaining the upper hand.

Examples of introductions he had heard from various toastmasters in presenting speakers were used as illustrative material.

The entire speech was interspersed throughout with humorous stories and facial expressions that were not only humorous and interesting, but were so aptly given as to hold his audience spellbound during the entire discourse. It is hoped that sometime in the near future Mr. Nelson may be induced to address the student body of the Tech at an assembly.

About twenty-five members attended the luncheon and all expressed keen appreciation of the program.

Mr. K. Kusaka of the Rail Road Dept., S. M. R. Co., of Dairen, Manchuria, visited Armour Institute last Friday afternoon. He was very much interested in the labs of the main buildings.

A. I. Ch. E. Meets Friday, Mar. 21

The regular meeting of the Armour Branch of the American Institute of Chemical Engineers will be held on Friday, March 21, at 1:00 p. m. Mr. L. C. Cooley, Chemical Engineer for the Whiting Corporation at Harvey, Illinois, will speak on evaporators, stressing the methods of design and engineering problems connected with this line of work. He also will discuss in detail several new types of evaporators and their applications.

The annual A. I. Ch. E. smoker will be held at the Phi Pi Phi House on Wednesday, March 26. The freshmen "chemicals" have been invited to attend.

ARMOUR MOURNS GUNSAULUS DEATH

Dr. Frank Wakely Gunsaulus, the first president of Armour Institute, died nine years ago yesterday, after a life of civic enterprise, lecturing, education, and Christian work. His demise was caused by a heart attack, death coming just two hours after the illness.

Dr. Gunsaulus was born at Chesterville, Ohio, January 1, 1856. He was educated in Ohio, graduated from Ohio Wesleyan University and entered the Methodist ministry soon afterwards. During the next few years he was in charge, consecutively, of three different Methodist churches.

In 1879 he entered the Congregational Church, accepting the pastorate of the Eastwood Church at Columbus, Ohio.

After leaving Columbus, he became a pastor, first, in Newton, Massachusetts, then in Baltimore, Maryland.

The Plymouth Congregational Church of Chicago called Dr. Gunsaulus in 1887 and he accepted. Following a sermon delivered by the pastor at this church, in which he spoke of the obligations of the rich to the poor, Philip D. Armour offered to provide the money if Dr. Gunsaulus would provide the necessary time for carrying out the ideas expressed in the sermon.

Dr. Gunsaulus agreed to the offer and Armour Institute of Technology was founded in 1892, with Dr. Gunsaulus as the first president.

In 1899 he resigned the pastorate of the Plymouth Church and became pastor of the Central Church. In 1919 the plans for the extension of Armour Institute required so much time that Dr. Gunsaulus found it necessary to discontinue his church activities.

From that date he devoted practically his entire attention to the affairs of Armour Institute. Under his guidance the school continued to expand and improve.

March 17, 1921, he died at his home, his funeral being held from the New England Congregational Church in Chicago, Saturday, March 19, 1921.

A. I. E. E. SPRING SMOKER HELD AT THETA XI HOUSE

The annual A. I. E. E. spring smoker was held at the Theta Xi house last Wednesday evening, March 12. The faculty was represented by Professors Moreton, Richardson, and Nash, and the alumni by a number of the recent graduates.

Festivities as planned by a committee of R. J. Serson, chairman, E. W. F. Hanke, R. G. Kellner, B. H. Roffee, and H. E. Stein, began promptly at eight. Cards and smokes furnished the early part of the evening's entertainment.

About 10 o'clock the guests, numbering about eighty, were assembled in the front room of the Theta Xi house and there viewed the main event of the evening, a sketch entitled "A Scene in Professor Moreton's Office." The principle players were R. J. Serson as Professor Moreton, and R. Mortenson and B. H. Roffee as students. The sketch dealt with the behavior of a lie-detector apparatus which Professor Moreton had in his office. Its movements when the students' alibis were given were as expected, but the reactions to Professor Moreton's tale of his college days were a complete surprise.

A few remarks made by President Dollenmaier were followed by songs for those who cared to sing, and then the refreshments were served, which by this time were gladly welcomed by all. A quiet dismissal thus ended the A. I. E. E. spring smoker.

Tech Arx Take Exhibition Prize

At the recent exhibition held at the Architectural Sketch Club of Chicago, Armour was awarded first prize for their exhibition of design work. The awards for the different exhibitions was on the basis of ballots cast by the visitors. The schools entered were: Armour, University of Illinois, and Lake Forest.

The plates entered by Armour included the Paris Prize Designs of J. E. Peterson; an Archaeology Problem, A Roman Temple, by C. W. Buechle; a Beaux-Arts Project, A Restaurant, by C. P. Ware; A Loggia, project by H. A. Tonsager; a composition plate by Ray Peterson; and a Beaux-Arts Project, a Post Office, by M. Braun.

There also was a set of History of Architecture sketches and some water color drawings entered.

ALUMNUS KILLED

Stanley Charlton, '21, and wife were killed Saturday, March 1, 1930, in an automobile accident at Lake City, South Carolina. Mr. Charlton and his wife were returning to New York from Florida when the fatal accident occurred. Mr. Charlton was manager of the New York office of Balfour & Co., Fraternity Jewelers.

CALENDAR

- Tuesday, Mar. 18
Group Pictures for Cycle.
3:00 p. m.—Track meet with Crane College at Bartlett Gym.
- Wednesday, Mar. 19
Swimming Meet with Crane College at Crane College.
9:30 a. m.—F. P. E. S. Meeting—Science Hall.
- Friday, Mar. 21
10:30 a. m.—General Assembly.
1:00 p. m.—A. I. Ch. E. Meeting.
- Saturday, Mar. 22
3:00 p. m.—Triangular Track Meet with Chicago Normal and Sears-Roebuck Y. M. C. A. at Bartlett Gym.
Annual Golf Tournament at Evergreen Golf Course.

Pledge New Men for Honoraries

The Armour Chapter of Chi Epsilon, national honorary civil engineering fraternity, and Salamander, honorary fire protection engineering fraternity, pledged new men last week.

Chi Epsilon held their pledging in the Phi Pi Phi house with the following men as pledges:

- Leonard H. Dicke, '31.
- Karl E. W. Helsen, '31.
- Eldon A. Johnson, '31.
- Bert S. Lindquist, '31.
- Berlyn G. McLaughlin, '31.
- Clarence J. Robin, '31.
- Salamander pledged their new men in their Chapin Hall rooms. The following are the pledges:
- F. S. Austin, '31.
- A. J. Lenke, '31.
- W. E. Schirmer, '31.
- P. E. Seidelmann, '31.

Spring Engineer Out This Week

The next issue of the Armour Engineer will be ready for distribution the latter part of this week. It will feature articles by the heads of the Mechanical, Chemical, Electrical, Civil, and Fire Protection Engineering Departments on the latest developments in their respective fields. In addition to these articles and the usual features there will be an article by Beverly Dudley, ex-'30, on "Frequency Determination"; an article by I. G. Katz, '30, on "Electrolytic White Lead"; and an article by Chester Stempkowski, '32, on "An Automatic Car-Rewarder for Use on Railroads."

This issue is to be larger than the usual issue. The regular size is forty pages, which has been expanded to forty-four pages in the coming issue. H. H. Slavitt, Arch., '32, has made a free-hand sketch of an airplane that will be used to make an attractive cover.

Ransel Makes Plans for F. P. E. S. Smoker

J. E. Ransel, president of the Fire Protection Engineering Society, announces that the society's annual smoker will be held Wednesday night, March 26, at the Delta Tau Delta House, 3155 S. Michigan avenue. The Fire Protects are urged to pay their dues so that they will be eligible to attend. Ransel promises lots of cigars, cigarettes, stories and card games.

National Oratorical Contest Closes Soon

A letter from the contest director of the National Intercollegiate Oratorical Contest, states that on the list of 152 colleges and universities which have entered, Armour Institute does not appear. Students or groups interested should send for details as soon as possible, as March 25 is the last day to enter. All communications should be addressed to the contest director, Professor P. Caspar Harvey, at Liberty, Mo.

There is a choice of fifteen subjects, each of which is directly related to the Constitution of the United States. That the contest is succeeding in its purpose of creating and stimulating interest in this most important of American documents, is evidenced by the fact that inquiries have been received from many of the foremost schools. Each successive year the contest is held, this year being the sixth, sees a greater number of contestants. The regional and state contests, taking place from April 24 to May 3, lead up to a final contest at Los Angeles, where prizes totalling \$5,000 are offered.

LIE DETECTOR TO BE DEMONSTRATED BY CRIMINOLOGIST

Machine Will Be Shown at Assembly Friday

GLEE CLUB TO SING

Leonardo Keeler of the state criminology department will demonstrate the "lie detector" machine at an assembly next Friday morning at 10:30 a. m.

With this instrument, one is able to tell when a subject is lying by means of recording changes in respiration and blood pressure. The state board of pardons announced on March 5 that they will use it on all prisoners appearing before them, and the results of the tests will be considered by them in determining the prisoner's pleas. The officials stated that this machine has great possibilities for use in making mental tests of the convicts and assigning them to work on the basis of these tests.

The glee club will give a concert during the assembly. The numbers which they will sing will probably be "Morning," "Where E're You Walk," and "On the Road to Mandalay." George Burhop, '33, will sing the solo in the latter number.

Fire Protects Meet Tomorrow for Lecture

The regular bi-weekly meeting of the F. P. E. Society will be held tomorrow, Wednesday, March 19, at 9:30 in Science Hall. J. E. Ransel, president, will preside. The speaker for the meeting is Mr. Harry G. Casper, assistant manager of Fred S. James & Co., general agents. Mr. Casper will give an explanation of the fire insurance business as seen from the company's standpoint.

PHONE COMPANY SENDS BERNHARD

L. F. Bernhard, '29, E. E., combined business with pleasure in a visit to Armour Institute on March 12 and 13, the business being that of making appointments with the officials of the Illinois Bell Telephone Co., Long Lines division of the American Telephone and Telegraph Co., Bell Laboratories, and the Western Electric Co. Interviews with those members of the electrical, mechanical, civil, and chemical engineering departments who contemplate employment after graduation with any of the firms mentioned were arranged.

Bernhard is employed by the Illinois Bell Telephone Co., in the engineering department and not in the personnel department as might be expected. He explained that the Associated Companies of the American Telephone and Telegraph Co., usually sends a last year's graduate to make the appointments for interviews.

Professor Thompson Receives Ph.D. Degree

Professor James S. Thompson of the Physics department will receive his degree of Doctor of Philosophy today from the University of Chicago. Professor Thompson took the examination Friday, March 7, which climaxed his research on positive ions.

His work consisted of investigating the action of positive ions in gases of various densities and pressures. A basement laboratory in Ryerson Hall on the Chicago campus was devoted exclusively to Professor Thompson, and here the delicate observations were taken. He also received his B. S. degree from the University of Chicago.

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J. P. O'Hara, '33

Exchanges.....A. J. Aukstaitis, '31

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RESPONSIBILITY

One of the outstanding objects of an education is to instill in the student a sense of responsibility so that after being graduated, he will be able to step into a position and assume full responsibilities. This phase of an education, however, seems to be the most difficult for the average man to acquire. According to members of the faculty here at the Institute, one of the most common criticisms employers have of recently graduated men is their inability to take the responsibility of seeing a project through to its completion.

Our present system of teaching is, in a large part, to blame for this condition. Education, as it is now given in most colleges, encourages the shifting of responsibility and the procrastination which will not fit into a business man's picture of a good employe. A report which is due at a certain date is never turned in ahead of time. The work is put off until the last minute, and then a hastily assembled paper is prepared.

Several departments in the Institute have attempted the principle which is now the vogue among educators; the principle which says, "Let the student seek for his education instead of forcing it on him." These attempts have not proved successful because the student body is unaccustomed to such methods, and only tries to take advantage of such a situation. It is absurd to expect that students who have been brought up on the "force-feed" method will suddenly turn over a new leaf and resolve to work in a course where no definite, dated routine is scheduled.

The forming of the habit of responsibility is doubly hard at a college, for the attitude of the crowd must be fought against. However, until a university can produce men who will capably fill responsible jobs on graduation, the college graduate must submit to the ridicule of the "practical engineer," who, although he has had no higher education, has been brought up on responsibilities.

The editorial column is our means of expression to our readers; similarly our readers may express their opinion thru the Letterbox. However, it is the policy of our paper not to publish anonymous contributions. A recent letter received has made some rather radical and dubious statements. If the author will submit his name, we will be glad to print intact (misspelled words included).

THE SLIPSTICK

Cleave to "The Slipstick"; let the Slapstick fly where it may.

FRATERNITY

You're the most thoughtful and considerate room-mates,
I'm the luckiest of brothers that I know;
But there's one thing in your conduct that arouses
All the fury that a man can show!

When I go to cleanse my dentals in the bathroom
And the tube of paste is crumpled and awry,
I need interstellar space to give my wrath room,
And my temper seems to boil and fry!

All the virtues of fraternalism—you've got 'em—
And your ways are unobjectionally great,
But why don't you squeeze the tooth paste from the bottom?
And why don't you screw the cap on straight?
D. T. S. with apologies to B. B.

With the baseball players' salaries where they are now,
The youngsters of today no longer aspire to that great position of President.

SURE PROOF

They had now been married just six months. "Jack, dear," she murmured, "I hardly know how to tell you, but soon—soon—there will be a third in our little love nest."
"My darling," he cried, "are you sure?"
"Positive," she replied. "I had a letter from mother, saying she would arrive next week."

Micro Mike.

More Questions

Dear KK. What do you do for sunburn? Algy.
Dear Algy: Stay out in the sun. KK.
Mr. Kol. Kon. Being a tennis fan I am looking for some information on how to serve. Thank you. Robert.
Dear Bob. On a hot day serve with plenty of ice and a little ginger ale. KK.

Unknown No. 6-7/8 X

Boil, filter, and wash the unknown. Dissolve in 25 gallons HCl and all a little dilute hydrochloric acid. If a ppt. forms, boil, filter, and wash. If it doesn't do the same anyway. At this stage, boil, filter, and wash the filtrate. It is then dried, put in a beaker, and the beaker boiled, filtered and washed. After this operation, the precipitated solution is put in a test tube and dissolved in H. Z. If it does not dissolve, then boil, filter, and wash, and then boil, filter and wash. The ppt. is then boiled, filtered, and washed and allowed to dry. After boiling, filtering, and washing the filtrate, the portion which runs through the filter paper is boiled, filtered, and washed. If the ppt. does not dissolve in concentrated H₂O, it is dissolved in water, then boiled, filtered, and washed. When this manipulation explodes, the remains of the operator are interred or, that is, put in a flask and boiled, filtered, and washed, if they can be found.

—The Bongineer

Why not boil, filter, and wash?

Walt wants to know if we heard about the plumber who moved to another hotel because he objected to the sign, "Have you forgotten something?" hanging on the wall of his room. We didn't, Walt. Spring it.

GIDDAP

Ques: "What did Paul Revere say at the end of his ride?"
Ans: "Whoa." —Phil J.

Dedicated to ?

I call her my automobile girl—I'd like to choke her.
—Chester

The Wrong Kind

Clubwoman—"Oh, George, what a mess the guest speaker at the club turned out to be today, and to think we had to pay him, too."
George (husband)—"Well, what was the trouble?"
C—"Why, we heard he was a bridge expert, and every one was expecting a grand time, and he turned out to be nothing but a famous engineer."
Y. E. W.

They say that a little bit of vinegar knows its own Mother, but it's a wise cork that knows its own Pop.

Must a Been a Murad

Irate Father (to son he has caught smoking):
"Smoking, hey!"
Son (nonchalantly): "No, sir; tobacco."

In the physics class one lad wrote in an exam that an atomizer was an instrument for measuring the size of atoms. This answer was related to the class, and amidst the loud laughter came this remark from a so-called smart guy—"Gee, that's hot, he ought to know better than that. It's a device for measuring the size of molecules."

J. S. McC.

Respectfully yours,

K. K.

Professor John Frederic Mangold

(A Biographical Sketch)

BY P. EMIL SEIDELMAN, '31

John Frederic Mangold, Associate Professor of Mechanics, was born at Waupeton, Iowa, in 1884. After graduating from the local grade schools and Cornell College Academy, he entered Cornell College in 1903, and received his B. S. degree four years later. He then attended the State University of Iowa and received a B. E. degree in civil engineering in 1911. He also has a C. E. degree from Iowa State. Professor Mangold spent three summer sessions at the University of Wisconsin doing graduate work in mechanics and hydraulics.

After spending the summer of 1907 as a rodsman and draftsman for the Burlington railroad, he worked in central Illinois on drainage engineering. Then, in 1909, he spent six months on railroad location in Mexico.

Professor Mangold began his career as a teacher in the fall of 1911, when he became an instructor of civil engineering at the Mississippi Agricultural and Mechanical College. The next four and one-half years he spent on municipal work as city engineer at Grinnell, Iowa, simultaneously filling the position of assistant professor in engineering at Grinnell College.

From 1917 to 1919 Professor Mangold was Professor of Civil Engineering at the South Dakota State School of Mines, in Rapid City. Then, for one summer, he served as principal assistant bridge engineer of the South Dakota state highway commission.

As an indirect result of a visit to Chicago during his vacation in 1919, he joined the staff of the Institute as an Associate Professor of Mechanics. Since that time, as he is a licensed structural engineer, he has worked on many municipal and structural engineering problems for private concerns, especially railroads.

In 1916 he married Miss Helvig V. Anderson of Rock Island, Illinois, a graduate of Grinnell College. They have three children.

During the World War he held the commission as Captain of Engineers, U. S. R.

Professor Mangold is co-author with Professor Leigh of one book, "Practical Mechanics and Strength of Materials," which is to be published in the near future. He has also written many articles and pamphlets, a series on reinforced concrete having appeared some time ago in the American Builder.

He is a member of the American Society of Civil Engineers, the Midway Athletic Club, and the Consistory of Thirty-Second Degree Masons, also Beta Psi Fraternity.

His interest, outside the engineering field, is in sports and gardening, hiking having the preference.

Deans' Office Gives Statistics

The final statistics from the Office of the Deans give the number enrolled in each class as follows:

Seniors	172
Juniors	188
Sophomores	208
Freshmen	230
Special	2
Total	800

The different departments include the following number of men:

Mechanicals	136
Electricals	175
Civils	145
Chemicals	91
Fire Protects	115
Architects	137
Total	800

This is twenty more than were enrolled in the Institute at this time last year.

Inquiring Reporter

Question:—Would you like to see the NEWS feature short stories written by students?

H. Kreisman, M. E., '34—I think it would be an excellent idea, because of the interest aroused and because of the valuable experience it would afford the writers. Interest aroused in a story will naturally travel throughout the entire paper and knowledge may thus be gained by the writer through experience, and ideas and grammar may be acquired by the reader.

Professor C. B. Cooper, Head of the English Department—Yes. It seems to me this would make one of the most interesting features of the paper.

R. E. Golden, E. E., '33—Yes. There are probably many students in the school who could write either personal experiences or imaginary ones which would be of interest to all of us.

V. E. Alexander, C. E., '33—Yes. This would arouse the interest of students who are in possession of literary ability but have not the chance to express themselves. There would also probably be some very interesting stories presented to interest the readers.

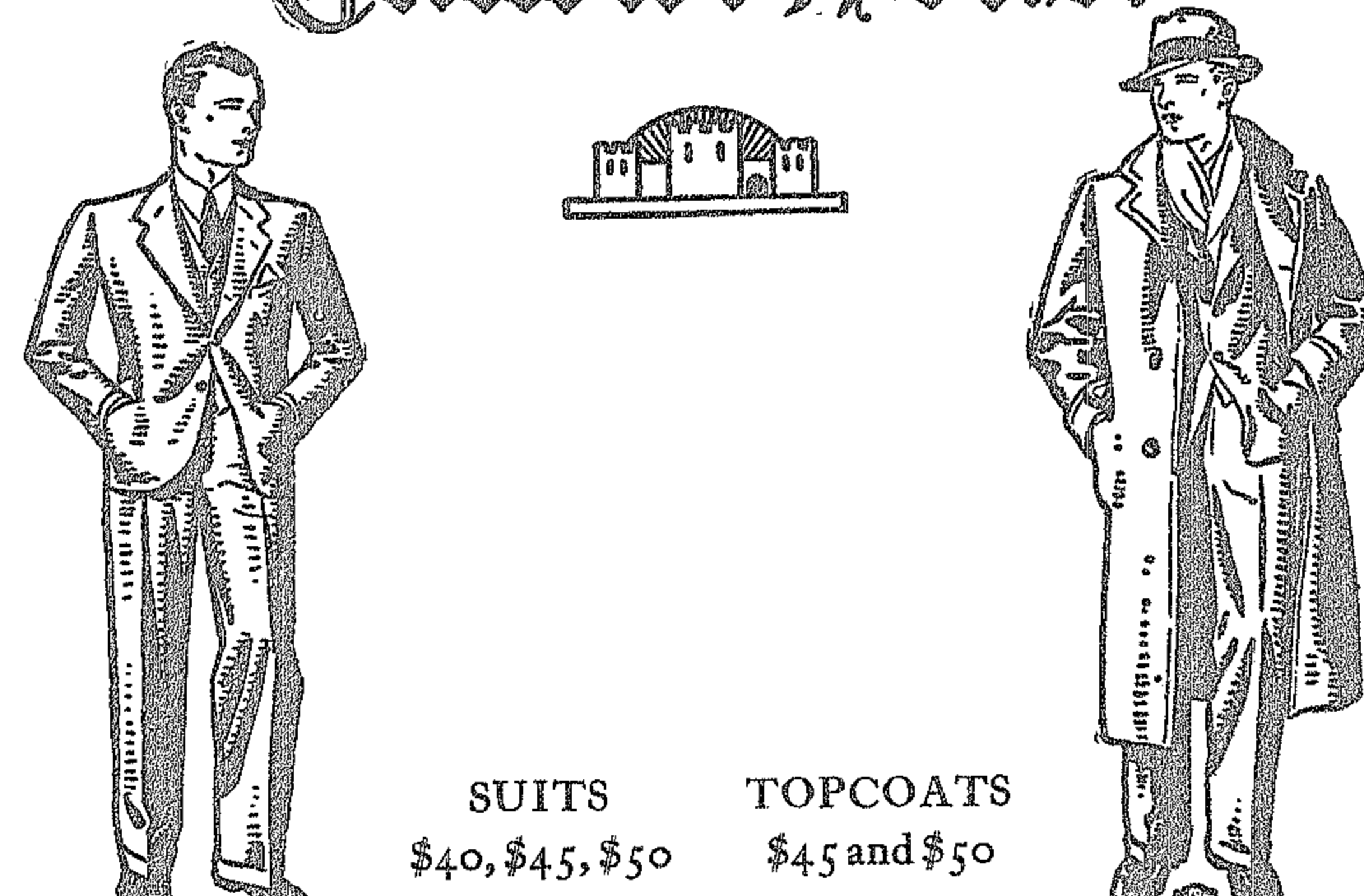
J. R. Jackson, F. P. E., '32—Yes. I think it would be a very good idea. It would give the students more of an interest in the paper and their writing if their stories were published.

Carbide and Carbon Co. Interviews Seniors

Mr. D. B. King, assistant to works' manager, of the Carbide and Carbon Chemical Corporation, of 30 E. 42nd Street, New York City, interviewed the Senior Chemical and Mechanical Engineers last Friday afternoon for positions with his firm after they graduate.

Dr. Louis C. Monin, former dean at Armour, has changed his address from Dufourstrasse 30, Zurich, Switzerland, to Gladbachstrasse 71 in the same city.

College Men Have Confidence in
SUITS and TOPCOATS
STYLED BY
Charter House



SUITS TOPCOATS
\$40, \$45, \$50 \$45 and \$50

IN A PERIOD OF GREAT AND SWIFT CHANGES, WHEN MODERN FELLOWS ARE INCLINED TO DOUBT THE AUTHENTICITY OF A STYLE, THE OUTSTANDING AND MOST HIGHLY QUALIFIED GARMENTS BEAR THE CHARTER HOUSE LABEL. IT INDICATES FINALITY.

THE HUB
HENRY C. LYTTON & SONS
Wainloch Clothes
STATE AND JACKSON CHICAGO 118 SO. MICHIGAN
EVANSTON OAK PARK
GARY

PHOTOELECTRICAL CELLS DESCRIBED TO A. I. E. E. MEN

Mr. A. J. McMaster, research engineer for the G-M Laboratories, was the speaker at a meeting of the Armour Branch of the A. I. E. E. held last Thursday in Science Hall at 1:00 p. m.

Mr. McMaster, who is a graduate of the University of Illinois and whose occupation since graduation has been research work in connection with the photoelectric cell, spoke on the construction, characteristics, theory, and application of the photoelectric cell.

Although the phenomenon of photoelectricity has been known since 1887, when Hertz discovered it, the full importance of it has not been appreciated until recently. In fact, Mr. McMaster said, it was not until the movies had learned to talk that a market was created for the cells. Five years ago it was almost impossible for a layman to buy a photoelectric cell. Today, however, conditions have changed somewhat and these light-sensitive tubes are now being applied commercially for numerous purposes.

The photoelectric cell is used in television, talking motion pictures, lamps and stellar photometry, illumination control, burglar and fire alarms, measurement and control of smoke in boiler stacks, optical counters and a host of others.

In the cell construction, he told of the slowness of production and of the great part the alkali metal, potassium, played. Ten tubes a day is a large output at the present time. The cell characteristics were illustrated by the drawing of curves.

After a few copies of the G-M Laboratory bulletin concerning photoelectric cells had been distributed among the members and after President Dollenmaier had commented on the smoker of the night before, the meeting was adjourned.

Water Color Exhibit to be Held March 20

The Tenth International Exhibition of Water Colors, Drawings, Miniatures, and Pastels will be held at the Art Institute on Thursday, March 20.

A loan exhibition of paintings, drawings, and prints by Eugene Delacroix, and also one of modern glass and rugs will be shown at the opening reception.

The Truss Club is now located at 3311 South Michigan Boulevard.

FRATERNITY NOTES

PHI KAPPA SIGMA

A roundup of Armour Alumni is being planned for some time in April in the form of a Smoker and Card Party at the house. If the affair passes off as nicely as did the last Alumni Smoker, its success is more than assured.

Mel Sodal, E. E. '32, has returned to the delightful life of a student after a semester's sojourn at the Western Electric plant.

With the arrival of sundry pieces of new furniture, rugs, etc., next week the new Phi Kap domicile will be completely equipped and furnished from basement to attic. It has long been the chapter's aim to outfit every room in the house for the better accommodation of out of town brothers who drop in occasionally, and with the addition of the forthcoming articles, everything will be shipshape.

DELTA TAU DELTA

Tuesday, March 18, starts the pledges on that period which is not quickly forgotten. The following pledges will go through probation week: M. R. Beal, J. R. Duncan, R. H. Frye, G. G. Gebhardt, F. M. Gibbian, E. J. Griffin, W. H. Larson, T. D. Lockett, H. D. Marshall, D. W. Pearson, H. A. Pearson, R. A. Peterson, R. R. Tufts, and Spencer Cone.

The period will end with informal initiation Saturday night, then formal initiation Sunday afternoon, March 23.

SIGMA KAPPA DELTA

There will be a Radio Dance at the House on the evening of March 22.

BETA PSI

Everyone enjoyed most thoroughly the Radio Dance held at the House Saturday, March 15.

THETA XI

The annual "Hard Times" Party was held last Saturday night at the Chapter House. The music was furnished by the "Four Horsemen" of Northwestern fame.

There were about eighty couples that attended, including many alumni and members from other chapters.

KAPPA DELTA TAU

The Indiana Sand Dunes were the scene of the initiation of the following pledges Saturday, March 15: William Holland, Edmund Field, Phil Rosenfeld, Sidney Crane, Joe Tuchinsky, Martin Alt-schuler, Irving Siegol, and Jack Robbe.

Country-Wide Exhibit of Architects' Work

Beginning March 14 and running for about one week, there will be an exhibition of drawings by the Association of Collegiate Schools of Architecture in the Burnham Library of the Art Institute. The important schools of architecture in the country, including Armour are members of this association.

The drawings that will be displayed will consist of student work of all classes, sketch problems, projects, etc., sent by the various schools as examples of the work. This traveling exhibition is a yearly event, being sent for about a period of one week to each of the schools represented.

Trackmen to Run Twice This Week

The Tech track team will compete in two track meets this week. Both are to be held at Bartlett Gymnasium, University of Chicago. The first is to be held at 3:00 p. m. this afternoon with Crane Junior College; the other, a triangular meet with Sears-Roebuck Y. M. C. A. and Chicago Normal College will be held at 3:00 p. m. Saturday afternoon.

Armour has a well balanced team this year and has come through the indoor season undefeated thus far. The two meets this week, however, will put the team to some severe tests.

Armour defeated Chicago Normal last year in a dual meet by 45 to 32. Crane was met only once last year in the quadrangular meet held at Chicago Normal College. Crane came through in first place, while Armour had to be content with

Make Last Call for Baseball Candidates

The last call for infield and outfield prospects for the 1930 baseball team is made today. All who expect to try out for the squad this season must report at once if they expect any consideration later. The team will go into training in the gymnasium at once. This ruling is essential because of the inevitable loss of time that occurs when men report after practice has begun.

The four-day practice has been extended to five days in anticipation of the outdoor work which will get under way in the near future. At present the field is not in shape for such work, the backstop netting has been broken in several places. The field is in poor condition due to the action of the snow and ice, but will be taken care of by raking and rolling.

The men who report for practice should bring a glove, a sweat shirt and tennis shoes. When outdoor work begins spike shoes will be required.

R. C. Linnell, '29, is working as an assistant chemist with the Illinois Paint Works Company. He has been attending Professor Freeman's evening school class of Engineering Economics at the W. S. E. rooms.

The 1930 Memorial Endowment Fund drive of the University of Syracuse ended recently with 87 per cent of the graduating class having subscribed and promised a \$5,500 gift annually.

Sears-Roebuck has a very formidable team this year and should offer much competition in Saturday's meet.

Frosh Archs Initiated; Deans Attend Banquet

(Continued from page 1)
tion with and his great admiration for Louis Sullivan, one of the former leaders in architecture in the city. He spoke of his great genius and of his unfortunate circumstances at the time of his death. It devolved on his friends and admirers to take care of his last rites. Thus he emphasized his point that sometimes you only break even.

He strove to emphasize the points that you only get out of a thing what you put into it. He advocated simplicity; the less complicated the idea was made, the better it would get across.

Mr. Rubori quoted personal experiences to prove his point that when the students went out into the practical business world they should know the men with whom they are dealing. He drove home the idea that was the basic principle of Lincoln's life. "If you know you're right; go straight ahead." Mr. Rubori's talk was received with the utmost of appreciation.

Dean Palmer followed with a short talk on the value of friendship among men and the important part it played. Dean Penn spoke on the extraordinary comradeship among the architects. He spoke of the feeling of cooperation that was springing up between the architects and engineers.

Dodson, Novy and Ransell gave several vocal selections and then had to give an encore. The prize which Armour won for having the

best architectural exhibit at the recent exhibition held by the Architectural Sketch Club of Chicago was presented. It was an etching, "A Rainy Night in Chicago," by Peschereh. It was a representation of the Palmolive Building. The exhibition, at which Armour placed first, will next be shown in Fort Wayne, Ind.

After the speeches, everyone went up to the drafting room where an orchestra consisting of Walter Anderson, Jed Risner, Charles Sommers, Ralph Scarfuri, Martin Myer and under the direction of Dave Balkin furnished music. Carl Schurze gave the vocal accompaniment. Various members of the classes had little skits to put on, and Mr. Rubori furnished another story before he left. The affair was pronounced to be a complete success and one of the best ever given.

Eighteen is the ideal age for university matriculation, according to a survey conducted at the University of Syracuse. Students at that institution believe that matriculation at the earlier age keeps men from activities and prevents them from enjoying college.

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SCHEDULE FOR TUESDAY, MARCH 18

This is the complete schedule for Cycle Group pictures. Students will be dismissed from classes only during the time picture is being taken.

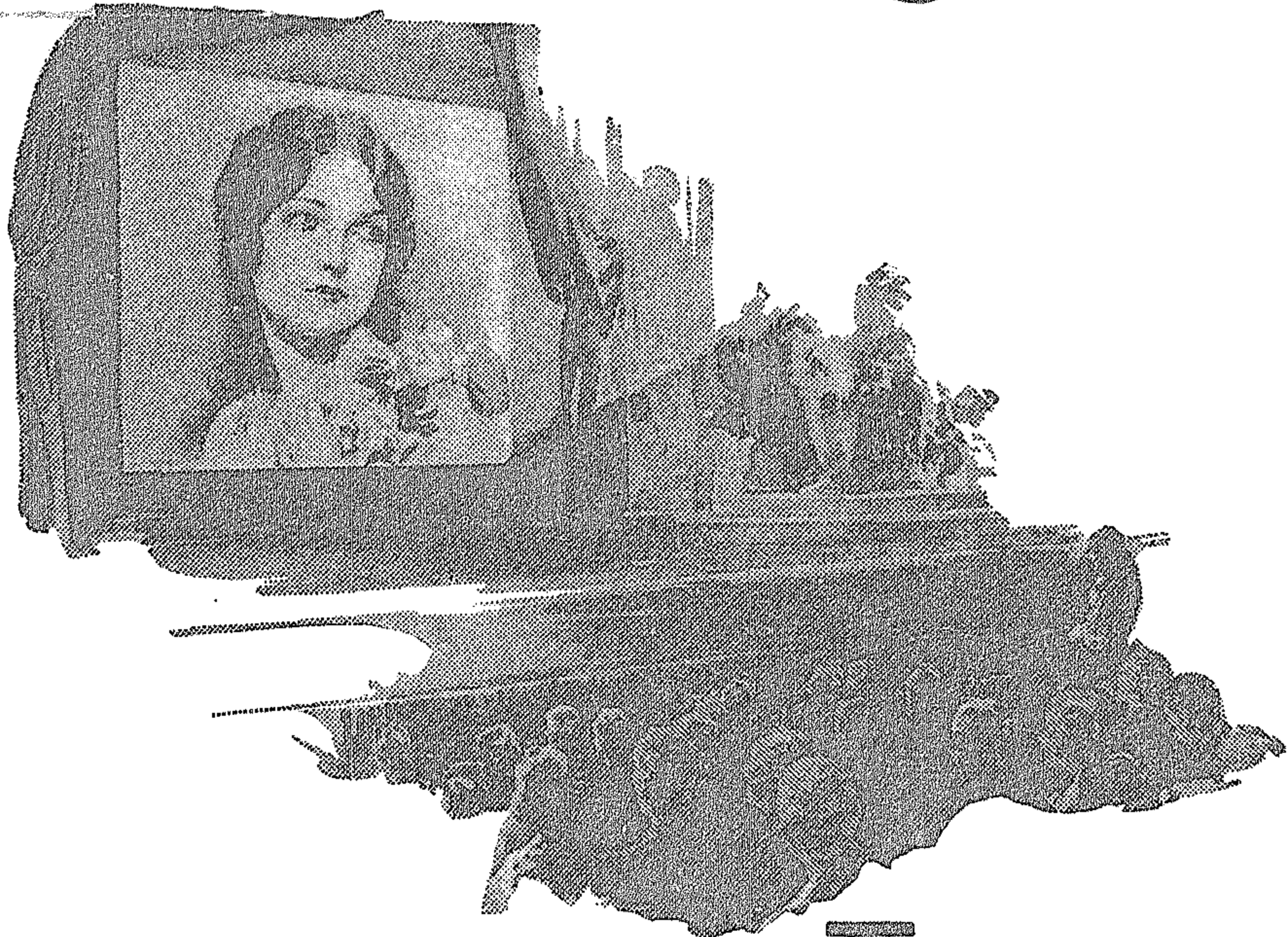
MORNING

- 9:00 Junior Class—Ogden Field.
- 9:30 Sophomore Class—Ogden Field.
- 10:00 Freshman Class—Ogden Field.
- 10:30 A. S. M. E.—Ogden Field.
- 10:35 Junior Marshals (1929)—Main Entrance.
- 10:45 W. S. E.—Ogden Field.
- 11:00 A. I. Ch. E.—Ogden Field.
- 11:05 A. T. A. A. Officers—Main Entrance.
- 11:10 Board of Athletic Control—Main Entrance.
- 11:15 F. P. E. S.—Ogden Field.
- 11:30 A. I. E. E.—Ogden Field.
- 11:30 Cycle Assistants (sophs)—Main Entrance.
- 11:40 Leaders of Musical Organizations—Main Entrance.
- 11:45 Architectural Society—Ogden Field.
- 11:45 Engineer Assistants—Main Entrance.

AFTERNOON

- 1:00 Campus Club—Ogden Field.
- 1:05 Inter-Honorary Council—Main Entrance.
- 1:10 Inter-Fraternity Council—Main Entrance.
- 1:15 Radio Club—Ogden Field.
- 1:20 News Assistants—Ogden Field.
- 1:25 Truss Club—Ogden Field.
- 1:30 Rifle Club—Ogden Field.
- 1:35 "A" Men—Ogden Field.
- 1:40 Honor "A" Society—Ogden Field.
- 2:00 Basketball—Assembly Hall.
- 2:15 Orchestra—Assembly Hall.
- 2:30 Glee Club—Assembly Hall.
- 2:45 Boxing and Wrestling—Assembly Hall.
- 3:00 Tennis and Golf Teams (1929)—Assembly Hall.
- 3:15 Swimming Team—Assembly Hall.

...on the screen it's **CHARM!**

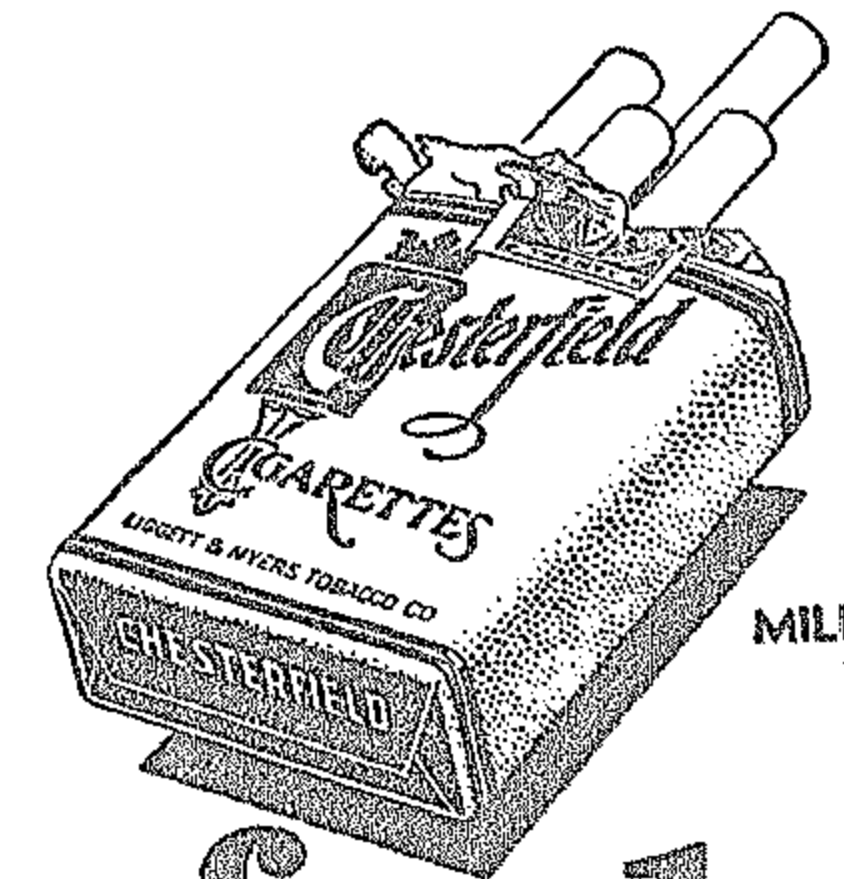


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PAUL WINS SECOND PLACE AT ILLINOIS RELAY CARNIVAL

Defeats Big Ten Champs Wins First Place in Prelims.

TEAMS DO NOT PLACE

Don Paul, Captain of the Armour Tech track team and champion shot putter, proved his superiority in his specialty event by winning second place at the 13th annual Illinois Relay Carnival, held at Urbana last Saturday.

The list of entries in the shot put included some of the best performers in the country. Among them were the following: Weaver, Chicago; Bausch, Kansas; Brooks and Poorman, Michigan; Clausen, Minnesota; Yunevich, Purdue, and Behr and Gnahab, Wisconsin.

Kansas Wins Two Mile

The two mile relay team composed of James, Timmermans, Sorenson and McKinney ran in the second heat of their division. The race was won by Kansas Teachers' College of Pittsburg, Kansas. Carleton, De Pauw and Ohio Wesleyan finished in the order named to win second, third and fourth places. James started the race at a fast pace and finished well ahead of the stragglers when he passed the baton to Timmermans. Ralph held his position until the final lap when he dropped to the rear. Sorenson ran in the third position and was to give the baton to Sademan. Sademan was scratched and McKinney was put in his place. By this time Tech was so far in the rear it was thought advisable to save Sademan for the medley race.

Michigan Sets Carnival Record

The medley race was run several hours later. In this race Coach Stagg placed James in the 380, Strum in the 440, Iverson, three-quarters of a mile and Sademan the mile. James and Sturm ran well and were in striking position when the baton was passed to Iverson. Dan was running strong until the final two laps when he fell hopelessly in the rear. Sademan attempted to make up the distance by running a 4:40 mile but his handicap was too great. Michigan Normal repeated their victories of the last three years by setting a new Carnival record of 10:41 for the distance.

Armour's last chance came in the one mile college relay. In this race Harold Fox as lead off man misjudged his position when he passed the baton to Sturm. Vern made up the distance lost by the bad exchange and was in fifth place when he gave the baton to Hirsch who ran next. Hirsch and Helmick put up a game battle for a place but the team was hopelessly outclassed by the field.

Bausch Takes First

In the shot put competition each man was allowed three trials. Paul's first throw was well over 45 feet. Behr of Wisconsin was slightly behind Don with his first throw but as the boys became warmed up the distance was gradually increased to 46 feet. After each man had made his trial throws it was found that Paul had made the best distance. In the finals it was not until the last man, Bausch, had made his throw that Paul's 46 feet 6 3/4 inches was bettered. Bausch, by virtue of his 48 feet 4 inch distance was awarded first place. Paul took second place and was awarded a gold medal. Behr of Wisconsin got third and Weaver of Chicago was fourth. This is the second major prize that Paul has won in the shot put event in the last two years.

Nap Kara took part in the 75-yard high hurdles event, but due to a poor start did not place in his heat. Jens won fourth place in his heat in the 75-yard dash with the unofficial time of 8.1 seconds. Only the first two men to place were allowed to participate in the semi-finals which were held Saturday night.



Award Medals to Class Champions

As a result of a decision made by the A. T. A. A., awards are to be given to individuals of the winning 1929-30 inter-class baseball and basketball teams.

It will be remembered that early last fall the juniors were made champions of inter-class baseball. In the first tilts, juniors won over the seniors by a score of 4-0, while the sophomores defeated the frosh by 7-0. Yet it took two games to convince the sophomores that the class of '31 were champions. The first of these games was called off in the fourth inning because of darkness with the score standing at 4-3 in favor of the juniors. The sophs took another beating in the second game, 3-0, therefore the class of '31 was crowned as champion. Of the men partaking in the games, the following were selected champions and winners of the A. T. A. A. awards: C. J. Robin, L. L. Henson, W. M. Miran, E. J. Stehno, R. H. Kutteruf, W. E. Michalski, O. J. Fiala, Chas. Mago, F. S. Austin, A. J. Lenke, A. H. Jens.

Shortly before the Christmas holidays the freshmen were crowned as 1929-30 inter-class basketball champs. In the preliminary games the frosh led the sophs by an 8-6 score, while the juniors defeated the seniors in overtime by 16-15. In the final clash the juniors were whipped by 23-14 with the freshmen as winners. The number of awards in this case was limited to six. Modestly, the sensational manager of the freshman team, Gustavson, gave the awards to the following champions: Luke Cosme, D. W. Pearson, J. F. Ireland, A. B. Escarras, C. W. Marks, R. L. Ellis.

The baseball award is described as follows: A gold medal about 3/8 inch by 1 inch in size and bearing in relief a baseball player at bat, the letters A. I. T. intertwined at the left, and the date 1929 at the right; this medal hangs from a ribbon in neat fashion. In place of the baseball player at bat, the basketball award has a basketball player, ball in hand.

Colvert Made Tennis Coach

Professor W. W. Colvert has been chosen as tennis coach for 1930 to succeed Doctor C. A. Tibbals who found he could not devote the necessary time which is needed for a successful team. William Manske, '30, has been appointed manager for the coming year.

The courts will be put in condition during the coming week. The annual tournament schedule will be announced shortly. About seventy-five men have already signed up for the squad. The tentative schedule for the 1930 team will be published in the next issue of the Armour Tech News.

"Did you hear about the Scotchman suing the University?"
"Yeah, he fell out of a tree watching a football game."

When you hear a man boast that he feels like a two-year-old, he may be referring to an egg.

TECH SHORTS

At Urbana and Culver
Last week-end was an away-from-home session for Tech athletic teams. The track squad, numbering fifteen strong, took part in the Illinois Relay Carnival at Urbana. Tech boxers and the swimming team met the Culver Military Academy at Culver, Indiana.

Baseball has not progressed very far except for pitchers and catchers, but in a short time the outdoor practice will begin under the direction of Coach Krafft. Tennis is rather slow in starting this year. As a new coach has been appointed things will be humming on the Tech courts. The annual golf tournament which was slated for last autumn is scheduled for Saturday. Although boxing will fight its last bout soon, these outdoor sports will take its place.

All Depends on the Weather

When the weather breaks for the better, the track squad will do its hoofing outdoors. Nothing will be more welcome to the leg weary tracksters than the cinder path. After nearly four months of work on the boards at Bartlett Gymnasium, our runners are complaining of tightened muscles and sore feet. To a runner there is nothing more discouraging than sore feet.

An invitation has been extended to the track team to take part in the Seventh Annual Ohio Relays which are to be held at Columbus, Ohio, on May 2nd and 3rd, 1930. This happens to be the date of the Armour Outdoor Invitational, therefore it will be impossible to send a team to Columbus. The trophies awarded to winning teams in relay and special events consist of plaques which stand over 24 inches in height.

Not So Wild

The other day we watched the pitchers and catchers of the baseball squad exercise in the gym. Simpson and Stehno, it seemed, had a little difficulty in locating the plate with their fast balls. Anderson tried a little bunting and supplied the boys with a few minutes of hazardous practice.

Coach Stagg, director of the trackmen, feels that this will be the most successful season that the track team of Armour has ever had. The team, according to Lonnie, is balanced in all branches. The large number of middle distance runners makes it possible to enter three and four teams in the relay events.

Coach Lonnie Stagg reports that the track squad is probably the best team that has represented Tech since its inauguration. Nuff said.

Modesty

We notice that Gustavson, the freshman basketball star, is not listed for an award. Although Gus was the manager and backbone of the Frosh squad he has passed up a chance for a permanent trophy in favor of his team mates.
A. H. J.

ARMOUR LOSES TWO MEETS TO CULVER MILITARY ACADEMY

Boxing Team Victim in 8 Bouts. Tankmen Fall 37-22

BOTH CAPTAINS LOSE

Culver Military Academy scored a double victory over Armour last Saturday, defeating our boxing team 8-2 and the swimming team 37-22.

Ustryski and Larkin were the only victors on the boxing staff. Both men edged out their opponents in three-round decision affairs.

The swimming team garnered its 22 points by placing second and third in a majority of the events. Walter Trognitz gave Armour the solitary first place rating in the swimming meet by winning the 100-yard breast stroke. Cavanaugh placed second in this event.

For the first time this season Captain Fred Strauch failed to win the fancy diving contest. Strauch trailed his opponent by one-half point, losing the duel 122-121 1/2.

Norman Buehling, boxing team captain, like Strauch, lost a heart-breaking bout. Buehling was declared the loser after the 3-round fight, although the fight appeared to be won by him. Buehling's opponent, incidentally, was one of their ablest pugs and a consistent winner.

The decisions in most of the events which Armour failed to win were very close. Weston placed second in the closely contested 100-yard breast stroke. Byanskas trailed by a few inches in the 40-yard free style to place second. Knox won a second place in the 100-yard free style, while the relay team won a second place in the 160-yard swim.

The results of the boxing match are as follows:

- Donnelly, A., lost to Glueck—118 pounds.
- Montesano, A., lost close decision to Perez—114 pounds.
- Sandstrom, A., edged out by Hough—120 pounds.
- Schwartz, A., defeated by Colean—130 pounds.
- Ustryski, A., won from Foster—145 pounds.
- Buehling, A., lost close match to Eizan—147 pounds.
- Nelson, A., defeated by Snart—155 pounds.
- Mitchel, A., lost to Becker—148 pounds.
- Whitfield, A., lost close decision to Reuo—150 pounds.
- Larkin, A., defeated Bence—165 pounds.

Annual Golf Tourney to Be Held Saturday

The annual golf tournament will be held Saturday, March 22, at the Evergreen Park Course located at 91st street and Western avenue. A registration sheet is now on the bulletin board and all contestants will be required to sign up before Friday.

The entire meet will be conducted on Saturday with each contestant playing 36 holes. The lowest score will be declared the winner of the school championship. This match, originally planned for last fall, had to be postponed because of inclement weather until this week-end. Last year 36 signed up for the event and as many are expected this spring. A registration fee of one dollar to cover the greens fee expense will be required of each participant.

The coming match will also tell who is to represent Armour in golf for the coming season. The golf team schedule is still tentative, but at least two matches will be played with probably one tournament at Toledo.

Honor 'A' Society Gathers Records

The Honor "A" Society, under the direction of Vernon Sturm, is to compile a set of official records for the indoor and outdoor track teams. Records of the outdoor squads date back to the founding of the school, while the indoor team records exist for only four years.

Since so many records have been bettered lately the society is prying into the past to see if any new time marks are being established. The best time made in each event will be taken from old Cycle numbers along with the record holder. Then whenever any of these marks are broken the new record and its holder will replace the former.

Records established in any meet will be considered; those established in practice will not. If an individual breaks a record yet does not win his event, he will be given credit just the same. A list of such records will probably appear in the coming issue of Cycle.

A committee to assist Sturm will be selected at the meeting of the society this week. A second committee will be put to work on arrangements for the annual spring banquet.

Tech Swimmers Vanquish Crane

The Armour swimming team, led by Captain Strauch, defeated Crane College last Tuesday for the first time in five years. The meet was held at the University of Chicago pool.

After seven events had been run off the score was tied 33 all. The 300 yard, three-man, medley relay which was the eighth and last event, was to decide the winning team. The first event of the relay was the backstroke in which Armour gained a three yard lead. Trognitz, swimming the next 100 yards, breast stroke style, gave Knox a lead of about six yards. Shaw, against whom Knox was swimming, is credited with better time for distance. Nevertheless, Tech got first place a scant yard ahead of the Crane man.

As a whole the times made were exceptionally fast. Trognitz's 2:47 for the 200 yards breast stroke, is but eleven seconds short of the world's record. It is good enough to win most Big Ten dual meets. Captain Strauch scored 99 points out of a possible 100, to win in some remarkable diving.

Summary

160-yd. Relay: Won by Crane (Hanson, Retsky, Hellend, Shaw); Armour second (Carlstrom, La Force, Knox, Byanskas). Time, 1:21.2.

200-yd. Breast Stroke: Won by Trognitz, A.; second, Cavanaugh, A.; third, Hanson, C. Time, 2:47.2.

40-yd. Free-style: Won by Shaw, C.; second, Byanskas, A.; third, Retsky, C. Time, 0:19.4.

220-yd. Free-style: Won by Connelly, C.; second, Helland, C.; third, Davison, A. Time, 2:46.

150-yd. Back-stroke: Won by Selinger, C.; second, Weston, A.; third, Logsdon, C. Time, 2:06.2.

100-yd. Free-style: Won by Knox, A.; second, Carlstrom, A.; third, Kopp, C.

Fancy Diving: Won by Strauch, 99, A.; second, Buffington, 86, C.; third, Thomas, 70, A.

300-yd. Medley Relay: Won by Armour (Weston, Trognitz, Knox); Crane, second (Selinger, Hanson, Shaw). Time, 3:29.4.

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