



Armour Tech News



Vol. XI. No. 13

Armour Institute of Technology, Chicago, Illinois

Tuesday, May 16, 1933

DISPLAY OPERATION OF SHOPS, LABORATORIES AS INSTITUTE HOLDS ANNUAL OPEN HOUSE

Pour Molten Iron in Foundry; Give Illustrated Talks on Aviation; Show Television in Junior Electrical Lab

MANY PHYSICS EXPERIMENTS TO BE PERFORMED

Monday, May 15—Armour Institute of Technology again sponsors its annual Open House Monday night, extending to the public an invitation to view the applications and results of study in the various fields of science and engineering. There can be no doubt but what A Century of Progress is evident within science and engineering alone, and consequently it is intended that this occasion surpass those of previous years.

All laboratories and shops will be in full operation and open for inspection by the public during the course of the evening. Questions arising in the mind of the visitor will be gladly answered by the students in charge of demonstrations. High school students who are contemplating entrance to Armour may take advantage of their presence by interviewing members of the faculty. A detailed account of the exhibition follows, with a directory on an inside page.

Mechanicals Feature Shops

The Department of Mechanical Engineering has compiled an interesting exhibit, with actual student demonstrations in the shops and laboratories. The mechanical laboratory, located in the basement of the Main building, will exhibit various heat conductivity tests, Tension and torsion tests of cast iron and steel, and compression tests of cement, concrete, and wood will be featured. A steam turbine and a Wachs engine will be in operation.

The forge shop will demonstrate forge work, along with acetylene and thermit welding. The wood and machine shops, located on the third and second floors respectively in Machinery Hall, will have all machinery running. The cutting of spiral, bevel, spur, and worm gears, as shown in the machine shop, will be of special interest to the visitor.

The foundry, located on the top floor of Machinery Hall, should be of particular interest to all. A student demonstration of core and mold making will be given. A heat will be started in the cupola, and at 8:15 p. m. the molten iron is scheduled to come down into waiting ladles, ready for the pouring into molds.

Automotive Laboratory Open
Predominant in the display sponsored by the Automotive laboratory, located just north of Machinery
(Continued on page 2)

A.T.A.A. Banquet Set For May 22

Invitations Sent Out to Tech Athletes

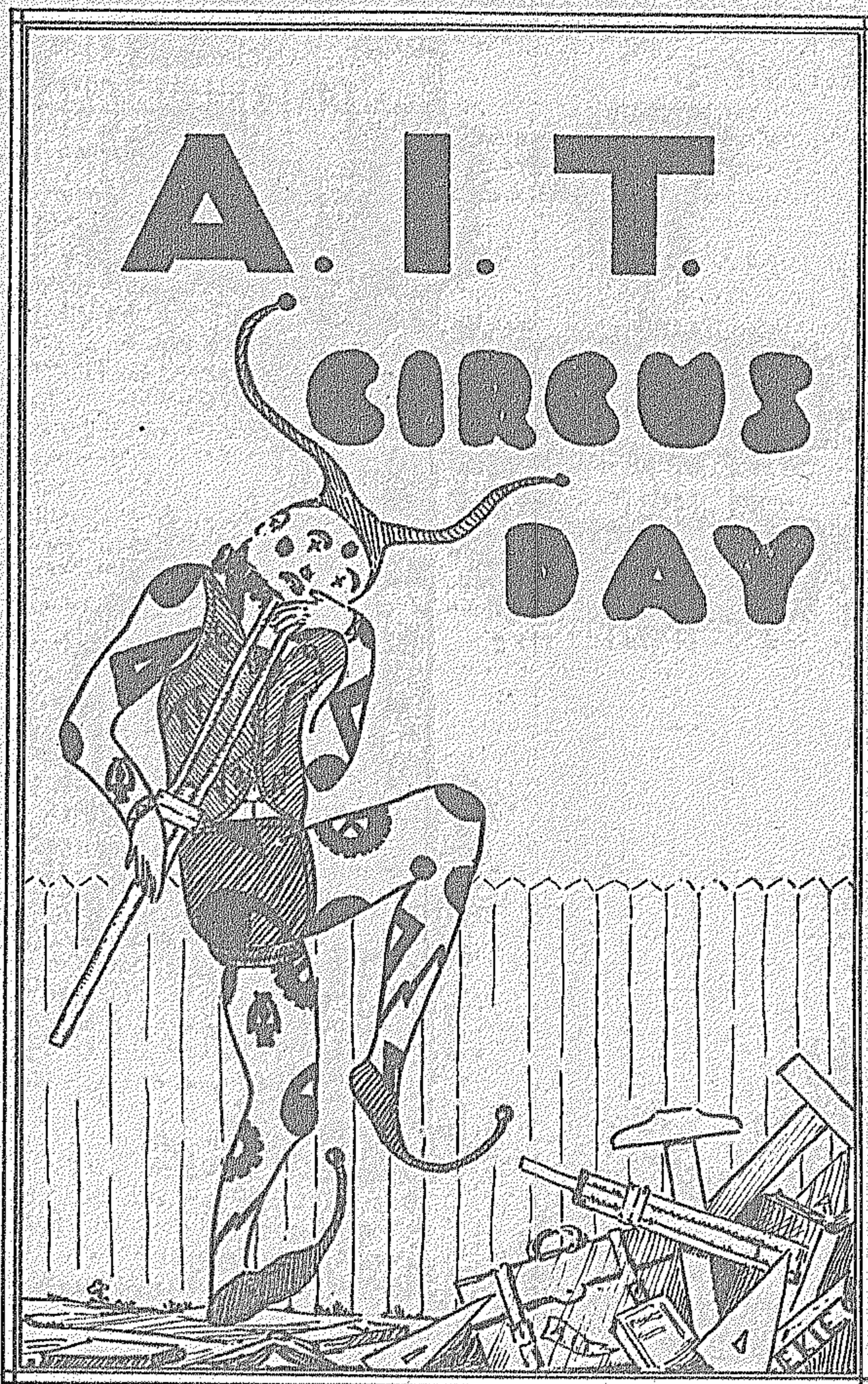
The annual banquet of the Armour Tech Athletic Association given in honor of all those who have represented Tech in the various sports will be held next Monday evening at the Chicago Athletic Club building.

An unusually large number of invitations have been sent and over one hundred and sixty athletes are expected to be present. The committee on arrangements consists of the managers of all the teams: Irving C. Johnson, Bradford Larson, Maurice J. Erisman, Jarl T. Sorensen, Frank Koko, Jack Pechman and Otto Stalb.

Members of the musical clubs will entertain the diners and the usual addresses by numerous prominent people will be given.

Dr. Hotchkiss and other administrative officers of Armour Institute will be present as well as the officials of the A. T. A. A. and the coaches.

JUNIOR WEEK



Friday, May 19, 1933

Choose Men for Honor Marshals

The honor marshals taking part in the annual commencement exercises and baccalaureate services of Armour Institute of Technology have been selected. These men are representatives from the freshman, sophomore and junior classes. The choice is due mainly to their scholastic standing.

The juniors are C. A. Cunningham, E. W. Gossweiler, W. E. Gunderson, T. H. Irion, I. A. Kolve, G. A. Nelson, E. P. Renstrom, Jr., and J. E. Schreiner. Representing the sophomore class are R. J. Maci, E. N. Searl, G. W. Wheaton and D. E. Young. The freshmen are R. R. Johnson and B. McMillan.

It is up to these men to see that everything goes off smoothly at the above mentioned exercises and services. The baccalaureate sermon is to be given on Sunday, June 4, at Orchestra Hall by Dr. Frederick F. Shannon. The commencement exercises are to be held the following Thursday afternoon at Armour in the assembly hall.

The members of the faculty, who are in charge of the honor marshals are Professor C. A. Nash, who is the head of the group and Professors Sear and Colvert, assistants.

Professors Lecture High School Groups

In accordance with the custom established last year, some of the Armour professors have been active recently in addressing graduating classes of the various high schools. On Tuesday, May 16, Professor Winston spoke to the students of York Community High School in Elmhurst. Recently Professor Roesch addressed the students of Bloom Township High School and Mr. Kelly spoke to the students of Fenger Senior High School and Harrison Tech.

These talks are given at the high schools in Chicago and vicinity to the members of the graduating class who are interested in engineering.

Honor A Society Pledges Five Men

At a meeting last Tuesday, the Honor "A" Society pledged five new men for excellence in their respective athletic fields of endeavor. The men are: Raymond J. Pflum, for his outstanding playing on the basketball court; George J. Mayer, for his "southpaw" hurling on the baseball diamond; John J. Ahern, for his work on the swimming team; Richard D. Armsbury, for his stellar play on the tennis courts; and Frank L. Talaber, captain of the wrestling team. These five pledges will be initiated at the A. T. A. A. banquet next Monday.

It was also decided at the meeting that in the future no sports managers would be admitted into the society. Only the best man in each of the sports would be pledged each year. Thus it is expected that the membership of the society, which is at present composed of twenty-six men, will be reduced in a few years to about fifteen or twenty, the size of most of the other honor societies.

Armour Players Elect Next Years' Officers

Alex Kulpak was elected president, Clarence Clarkson producer, and Herman Bauernmiester secretary-treasurer of the Armour Players at a meeting held last Wednesday night. A large turnout was obtained, and plans for the future were made.

A party will be held May 27 at the home of Bob Anderson to which all active members of the group are invited. Next fall the players will start on a new play somewhat similar to those they have presented in the past.

The Armour Players have become an important institution here at school, and they have been so successful with the several plays they have presented, that the future looks bright for the organization despite the fact that most of the original members will have left school by the end of this year.

JUNIOR WEEK CONCLUDES YEAR'S ACTIVITIES WITH SERIES OF VARIED EVENTS

Open House, Musical, Class Rush, Junior Formal, Pageant, and Two Ball Games on Program

FRATERNITIES TO COMPETE ON TRACK THURSDAY

JUNIOR FORMAL TO BE FRIDAY NIGHT; BIDS ARE ON SALE

This Friday night Gorde Birch and his Texans, playing for the Junior Formal Dinner Dance to be held in the renowned Pompeian Room of the Congress Hotel, will bring Junior Week of 1933 to a glorious and fitting close. The Junior Formal has long been distinguished as the premier event of the year among Armour's social functions, and this year's dance presented by the class of 1934 promises to surpass the best of them.

Pompeian Room Is Scene

The beautiful Pompeian Room, cooled with pure washed air, forms the setting for the dance, and the incomparable music of Gorde Birch's Texans will make the atmosphere complete. The social committee has done its part in a thorough and satisfactory way, and the rest is up to the student who has only to purchase his bid and invite his girl.

The bids for this year's dance, which are of an exceedingly novel character, are selling for four and a half. Ray Pflum, junior social chairman, has succeeded in making arrangements for the rental of complete tuxedo outfits for two dollars and a half, and all students who are planning to rent tuxedos for the evening should get in touch with him. The low rate is made possible because of the number that will be rented.

From Nine-thirty to One

The dancing will begin at nine thirty and will last until after one. A big, full course dinner will be served, and judging from the reputation which the chefs of the Congress have gained in the past years, the food should delight the most fastidious.

The junior social committee which has made the arrangements for the dance consists of R. J. Pflum, chairman, R. Ekroth, G. T. Korink, A. F. La Force, S. M. Lillis, and G. M. Reed.

To Elect Officers of A.I.Ch.E. Next Friday

The A. I. Ch. E. will hold its election of officers for next year one week from this Friday. This announcement was made by Allen Helmick, president of the organization, at its meeting last Friday.

Dr. Paul Nicholas Leech, director of the chemical laboratory of the American Medical Association, spoke before the meeting on "Popular Medical Fallacies."

The speaker touched on vitamins, mouth washes, antiseptics, first aid, and the difficulty of analyzing proprietary products. In connection with proprietary products Dr. Leech gave the cost as of 1930 of an itemized list of drugs.

F. P. E. S. Elects Men For New School Year

Election of officers of the F.P.E.S. for the next school year took place at a regular meeting held last Friday morning in Room D Mission. Otto W. Staib, vice president, presided at the meeting in the absence of the president.

The treasurers' report was read and approved. Nominations for president were then opened. A. J. Anderson was elected and took charge for the rest of the meeting. G. E. Myers, R. P. Dobson and R. W. Swanson were elected as vice president, secretary and treasurer respectively.

Junior Week, the long awaited climax to the year's events for Armour's Techawks, began Monday afternoon when the baseball team met Michigan State Normal and will wind up next Saturday morning to the tunes of Gorde Birch and his famous Texans at the Junior Formal. The time honored ratio of ninety-nine per cent school work to one per cent pleasure still held sway yesterday morning, but began to lose ground around noon as the preparations for open house appropriated the spotlight; and if the predictions of our local forecasters are to be relied upon, the ratio will be completely reversed by next Friday.

Varied Program Planned

Today's events consist of a soft ball game between the freshmen and sophomores at ten-thirty and the interfraternity relay meet at two. There will also be a tennis match this afternoon between Armour and George Williams College. The music clubs will present their annual spring concert tomorrow evening in the assembly hall thus terminating the day's activities which also include the pentathlon to be held at ten-thirty and the Wheaton-Armour baseball game which will start at three. Thursday the interfraternity track meet will focus the attention of the school on Ogden Field. The preliminaries will be run off in the morning while the finals will occupy the afternoon. Friday, which has been known as Circus Day ever since Junior Week was inaugurated, will feature the interclass relay meet in the forenoon, the class rush and the interfraternity pageant in the afternoon, and the Junior Formal in the evening.

Sophs to Play Frosh Today

The soft ball game between the freshmen and sophomores to be played this morning is a new event not having been included in previous Junior Week programs, but it is not to be lightly passed over as excitement has never been lacking when freshmen and sophomores have gotten together during Junior Week. It is not likely that the winning team will be completely victorious even if the junior marshalls can prevent a free for all fight. The Triangle relay team will be out this afternoon to defend the interfraternity relay title which they won last year and which they will attempt to retain. Meanwhile the several other houses are entertaining different ideas. Entries for this meet must be in by noon today.

George Nelson will be trying for
(Continued on page 3)

Six Men Initiated Into Tau Beta Pi Officers Are Elected for Coming Year

On Thursday, May 11, the men pledged to Tau Beta Pi at a recent assembly were initiated. After the initiation, which took place at the fraternity's rooms, the members, accompanied by several members of the faculty, spent an enjoyable evening at the Blackhawk Cafe.

The following men were initiated last Thursday: Earl W. Gossweiler, Clarence Huettner, Irving A. Kolve, John E. Schreiner, Carl L. Shermier, and Robert W. Suman.

An election of officers took place at that time also. N. E. Colburn, Jr., was elected president, Clarence Huettner, vice-president; E. W. Gossweiler, recording secretary; J. E. Schreiner, catalogue; Professor Peebles was reelected treasurer.

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Welcome, Open House Visitors

Armour Institute of Technology again presents its annual Open House Night. On behalf of the students we wish to welcome all the visitors to our school. We want you to make yourselves at home and ask questions about anything that interests you. This is an opportunity for you to see some of the more interesting details that go into an engineering education.

There are certain things about Armour that we would like to explain. Armour's position in the heart of a large city does not lend itself to many features commonly associated with college life, such as large campus, shaded walks, and beautiful buildings. However, its proximity to many industries and large construction projects gives the students a practical advantage over most other schools. One of the main faults laid to colleges at present is that the student does not get a practical viewpoint of his profession-to-be. The Armour student obtains this practical viewpoint through his many trips to actual jobs in his chosen line of endeavor.

Although we realize that this is one of the most important points in the education and training of good engineers at Armour—and Armour Institute has been the training ground for many engineers who have made names for themselves in their respective tasks and brought honor to their alma mater by so doing—practicalities are not everything and should not be everything in the college life of an engineering student. The work which you see being done on Open House night by the actual classes in operation is just one part of college life at Armour. It bears the same relation to Armour Tech as a whole that Open House bears to Junior Week.

As you know this annual visitor's night is one of the events which comprises the week of activities in charge of the Junior class of Armour each year and known as Junior Week. Junior Week is the climax of the year for Armour students and organizations. During this week occur most of the interfraternity and interclass events, as well as intercollegiate contests in baseball, track, and tennis. The musical clubs have their spring concert and last, but not least, the lower classes have their annual battle. For one week the engineers forget their work and have a short vacation before the mad rush to the final examinations.

Visitors are cordially invited to any and all the events of Junior Week. You have seen some examples of the student at work; we invite you to see the student at play.

"The Slipstick"

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

OPEN HOUSE

For several years it has been the custom of Armour Institute of Technology to hold open house to parents, friends, and prospective students. We hope that you will find interesting and instructive the demonstrations of each department.

HISTORY

And while we are enjoying Junior Week let us turn back to a gala occasion of thirty-five years ago when the Institute was young. We quote from the Integral of '99: "The Track Team of Armour Institute of Technology won its first victory from the Lewis Institute Track Team on the Chicago Athletic Association grounds at Parkside, Illinois, May 27, 1898. The Armour team was accompanied by eight tally-hos, all gayly decorated with flags and banners of yellow and black. It was indeed a pretty sight as the long line of tally-hos turned on Michigan Boulevard, and started for Parkside. On arriving at the grounds, the fair Co-eds of Armour were greeted by long rows of empty bleachers, and two Lewis Institute girls. The day was threatening, and at first our men were startled by the sounds which burst from the throats of the two Lewis girls who were there, as the first two events went to Lewis. The surprise of the day came however when a sprinter wearing yellow and black crossed the tape in the 220 yard dash leaving the red and yellow of Lewis far behind, and the two Lewis girls forgot to yell. A mighty shout went up; now Armour, "Remember the Maine," and from this on Armour won easily, scoring 78 points to Lewis's 39. Owing to the great similarity of the colors of Lewis and the Spaniards it is said that Lewis changed their colors to a beautiful purple, and now they are the blue Institute."

SUCCESS

He never made the team at all in college,
He simply went to classes day by day;
But fate gave him a crown of fame and glory
As leading lady in the senior play.

And while we were browsing thru the '99 Integral we noticed that Armour boasted of a football team. They won four games, lost three, and tied two. The scores:

Armour	17	St. Charles A. A.	0
Armour	6	Palatine A. A.	0
Armour	22	N. W. Academy	5
Racine A. A.	11	Armour	0
Armour	6	Rush Medical Col.	6
Armour	34	Lewis Institute	0
M. P. Academy	21	Armour	0
Armour	0	N. W. University	0
Dixon College	50	Armour	5

Traveler: "Did you find a roll containing fifty dollars under my pillow?"
Pullman porter: "Yes, suh; thank you, suh!"

She: "You're awfully shy for a lawyer."
He: "You bet I'm shy—I'm a shyster lawyer."

Perhaps you haven't heard the story about the two brothers, one a lawyer and the other a doctor, who were frequently mistaken for each other. At a tea one afternoon a woman who was in hopes of obtaining a little professional advice gratis managed to get a seat next to the young man whom she thought was the doctor.

"Is it better to lie on the right side or on the left?" she questioned when the chance presented itself.
And the doctor's brother replied, "If one is on the right side, it isn't necessary to lie at all."

MINUTE PHILOSOPHY

Nowadays a company is known by the man it keeps.
Some girls smoke—that is their substitute for thought.

Have you heard of Senator Portfolio, who is now sponsoring a new bill to be presented to the legislature soon? It is to be known as the "Anti-crime Bill," and not only makes all crime illegal, but urges the compulsory registration of all criminals before said criminals commit a felony. "This," says Senator Portfolio, "is a sure method of combating the red menace."

It is rumored about in certain Wall Street circles that a group of financiers have accumulated quite a stock of glass beads and freewater with the idea in mind of persuading the Indians to take the country back.

The man who has fixed seven or eight punctures during the winter will not be at a loss when he wishes to address the vampire.

Debtor: "I'm sorry, sir, but all I can pay on this note is the interest."
Creditor: "Forget the interest. It's the principle of the thing."

He rocked the boat,
Did Ezra Shank.
These bubbles mark

Where Ezra sank.

Consider the pin—its head keeps it from going too far.
THE DEACON.

FROSH-SOPH RUSH
CROWNS WEEK OF
VARIED ACTIVITIES

Sports, Concert, Dance
Included in Full
Schedule

TO DISTRIBUTE CYCLES

(Continued from page 1)

His third consecutive victory in the pentathlon tomorrow morning while other Techawh athletes, including Elmer Sademan who placed third last year, will be out to stop him. The Wheaton College baseball team which lost to Armour earlier in the season by a score of thirteen to three will furnish considerable opposition for the baseball team tomorrow afternoon, as they will be attempting to avenge their previous loss.

Tomorrow night the annual Spring Concert and the Interfraternity Sing will shift the scene of events from Ogden Field to the assembly hall. An excellent program has been prepared for the concert, and students are urged to invite parents and guests to attend. Delta Tau Delta which has won the Interfraternity Sing the last two years will be hard pressed by several other groups; as competition has always been keen, and this year's contest should prove to be no exception. The judges will be Dr. Hotchkiss, Professor Leigh, and Mr. Erickson. Triangle Favorite in Track Meet

Thursday will be completely taken up by the interfraternity track meet. Triangle, which now has two legs on the track cup, will be a strong contender for the title although minus the services of Stan Lind, who gave a fine demonstration in winning the 100 yd., 220 yd., 880 yd., and mile runs last year besides coming in third in the high jump. Sigma Kappa Delta, Beta Psi, and Rho Delta Rho were runners up last year.

Circus Day Features Rush, Stunts

The biggest day of the week, Friday, naturally comes last, and the Junior Formal, the biggest event of the day, also will come last. The remnants of the sophomore and freshman classes, if any remnants are left by Friday, will engage in the big class rush and struggle over the sand and straw bags which will be piled in the center of Ogden Field at one o'clock. The inter-class relay meet will be held in the morning and will be minus the services of a defending champion as last year's victorious team has since graduated. The inter-fraternity pageant will begin at two with the various fraternities presenting stunts. The skin which is awarded each year to the house presenting the best stunt has been going the rounds since 1924 and is now in the possession of Beta Psi. It may come to rest this year as several groups now have won it twice. Circus day judges will be Dr. Hotchkiss, Professor Schommer, and Professor Huntly. The Cycles will be distributed after the pageant.

Junior Formal Concludes Program

The Junior Formal to be held in the Pompeian Room of the Congress Hotel with Gorde Birch and

OTHER CAMPUSES

A group of senior men with clean shaven faces gathered at the "C" bench at the University of Chicago recently to inaugurate the annual senior "mustache" derby. To ward off a penalty of being submerged in the botany pond, the participants must refrain from contacting their upper lips with a razor.

The Indiana Daily Student says that freshman coeds at the University of Texas average five pounds heavier than their upperclass sisters.

A report has it that students at Amherst have a pool on the number of the hymn to be announced in the chapel.

The privilege of throwing water from dormitory windows has been taken away from the students at Butler University. According to the Butler Collegian, the students were not careful.

The University of Rochester abolished 8 o'clock classes recently because the professors prefer to have students sleep in bed rather than in their classes.

A fraternity named "Flunk Dammit Flunk" was established recently at the University of Alabama. The purpose of the organization is to create a feeling of brotherly love and sympathy among the lesser lights of the institution whose grades prevent them from joining the different fraternities on the campus.

Students in a labor problem course at New York University recently threatened strikes and sabotage and advocated collective bargaining to reduce outside reading assignments from 18 to 6 volumes, and succeeded, according to the Kansas State Collegian.

A. T. A. A. ELECTION

Election of officers of the A.T.A.A. will be held Tuesday morning. Students may ballot in the first floor hall of Main building from 9:30 to 3 o'clock.

USE OF SALES TAX

There has been some question as to what should be done with the sales tax collected from the students in the book store and cafeteria. Mr. Allison has decided that, in the event the state does not collect the tax which has already been charged, the money shall be used in some way beneficial to the students.

his orchestra will bring Junior Week to a glorious close and terminate the various activities for another year.

As might be expected from its name, Junior Week is presented by the junior class under the supervision of a group of marshalls selected by the class. Stephen Lillis, Lawrence Frateschi, and Irving Kolve are junior marshalls this year while Arthur Oberbeck, Norman Colburn, Michael Lukas, Roy Ekroth, James Manly, and Walter Gunderson are their assistants. Under their direction Junior Week of 1933 will soon take its place in Armour's history.

DIRECTORY

MAIN BUILDING: 3300 Federal Street. Library: first floor, North. Dynamo Laboratory: first floor, South. Physics Lecture Room: second floor, North. Electric Laboratory: second floor, South. Qualitative Laboratory: third floor, South. Science Hall: third floor, North. Electro-Chemistry Laboratory: third floor, Center. Organic Laboratory: fourth floor, North. Industrial Chemistry Laboratory: fourth floor, South. Drafting Room: fifth floor, North. Mechanical Laboratory: basement, North.

ARMOUR MISSION: S. E. cor. 33rd and Federal Streets. Civil Drafting Room: second floor.

MACHINERY HALL: N. W. cor. 33rd and Federal Streets. Forge Shop: first floor. Machine Shop: second floor. Wood Shop: third floor. Foundry: fourth floor.

CHAPIN HALL: 3339 Federal Street. Physics Laboratory: first floor, North. Radio Station: second floor, North.

FILTRATION PLANT: 3343 Federal Street.

AUTOMOTIVE LABORATORY: North of Machinery Hall.

GRADUATE CIVILS
CONSTRUCT NEW
FILTRATION LAB

Sixth Entrance Chapin
Hall Location of
New Plant

NOW IN OPERATION

Appreciating the great need for instructional and research work in water treatment, the Civil Engineering Department of Armour Institute has designed and constructed a 25 gallon per minute (36,000 gallons per day) water treatment plant. In order that studies can be made on every type of water treatment now practiced on a commercial scale, the plant was designed for great flexibility and includes or provides for all standard treatment processes. The work was done by Stanley Carlson and T. J. Westerberg, graduate civils, under the supervision of Professor H. A. Vagtberg.

Covers Three Floors

The plant is located at the south end of Chapin Hall and utilizes the basement as well as three floors above. This arrangement was necessary so that great flexibility of head losses could be provided to meet the requirements of various types of treatment equipment in this respect.

Chemical solution tanks and orifice boxes are located on the third floor and feed the chemical solution to the water just prior to aeration. After aeration and chemical mixing the water discharges into a long steel tank which can be divided into three chambers, the first for chemical reaction, the second for sedimentation (retention period up to three hours) and the third for recarbonization. The chemical reaction chamber is provided with mechanical agitation. In plain filtration tests the recarbonization chamber constitutes parts of the sedimentation tank. After sedimentation (or recarbonization used in the case of water softening) the water flows to the filter which is of standard design, utilizing 30 inches of sand, 18 inches of gravel and an underdrain system, which is also used for wash water distribution.

Control Rate of Flow

The water on leaving the filter flows through a specially designed rate controller, which can maintain a variation of flow from 12 to 50 gallons per minute, to the 2000 gallon filtered water storage concrete reservoir located in the basement. The suction of a 200 gallon per minute wash water pump is connected to this reservoir and filtered water is used for back washing the filter. Waste wash water can be discharged either into a waste wash water reservoir or into the sewer.

Two concrete reservoirs of approximately 2000 gallons capacity each are also provided in the basement as raw water tanks. Dechlorinated Chicago water is artificially prepared in either of the tanks for treatment. A 25 gallon per minute pump is so connected that raw water may be pumped from either reservoir and discharged into the aeration channel where the chemical solution is added as heretofore outlined.

Make Extensive Tests

An additional filter is also provided so that comparative tests may be run with the standard filter on all types and depths of filter media, activated carbon, rate of wash water application, etc.

The research program now contemplated includes tests on artificial turbidity, amount of air required for effective aeration, comparative value of chemicals used in water treatment, time required for effective reaction and sedimentation of various types of chemicals, the tests above outlined for filters, etc. A now partially equipped bacteriological and chemical laboratory will be completed in the near future.

PI NU EPSILON

Pi Nu Epsilon, honorary musical fraternity, initiated the following men last Wednesday: E. G. Avery, H. W. Davidson, R. Ekroth, C. R. Johnson, J. E. Tanney, and D. Traver. The initiation ceremonies took place at the Triangle house, after which the entire group attended a theater party at the Chicago Theater.

The election of officers will be held at the meeting next Thursday.

OPEN HOUSE NIGHT IS PRESENTED BY ARMOUR INSTITUTE

Students at Work Is
Theme of Annual
Visitors Night

BEGINS JUNIOR WEEK

(Continued from page 1)
Hall, will be the Dodge and Willys cut-out chassis, various types of aircraft engines, and a Chrysler six cylinder Red Head Engine for mechanic's studies. A special device for determining belt creep, being accurate to one part in ten thousand, will also be presented for observation. An electric cradle dynamometer horsepower test will be run on an eight-cylinder Chrysler engine, with air and gasoline meters.

Civils Show Instruments

Surveying equipment and instruments will be on display in the civil drafting room, third floor Mission building. The Beggs Deformeter equipment for mechanical stress analysis, and navigation charts and instruments can be seen. Drawings of the senior, junior, sophomore, and freshman classes in civil engineering will be on display. The drawings will cover work in the structural design of bridges, buildings, and airplanes. In addition, sample calculations will clarify all problems which must be contended with in structural design. A complete filtration plant will be in operation at 3343 Federal street.

Basic principles involved in the progress of aviation, will be set forth in the form of several talks by students, in room B, Mission building. "The History of Aviation" will be related by A. D. Burnet and J. T. Mauer. "Current Development in Aviation" will be rendered verbally by B. L. Wanderey and J. H. Scheyer. The talks will be illustrated by slides and motion pictures.

Chemicals Offer Variety

Customary activities of the students in the Department of Chemical Engineering will be set forth in all of their demonstrative work. The sophomore class, divided into approximately two equal groups, will exhibit its work in organic chemistry and in quantitative analysis in its laboratory, fourth floor Main building.

Students will demonstrate the methods employed in the preparation of metal samples for photographing, demonstrating the equipment used in taking such photographs and showing photographs of such specimens.

In the physical chemistry laboratory, the junior class in chemical engineering will perform selected experiments from its daily routine. Students in general chemistry will, in addition to qualitative analyses of unknown substances, compile work in quantitative analysis on baking soda, silver in an alloy, and iron in an iron ore. The spectroscopy will be used and exhibits of osmotic pressure and osmosis, have been arranged.

Industrial Exhibit

Upper classmen and graduate students will demonstrate work in industrial chemistry. The processes and equipment to be demonstrated will be fractional distillation, manufacture of paper, operation of an electric furnace, clarification and chlorination of Chicago water, production of a synthetic gasoline, and many others. The seniors will exhibit products based on the enrichment of ores, the double effect evaporator, and other excerpts from their daily work.

F. P. E.'s Show Extinguishers

The Fire Protection Engineering Department will present an exhibition of various types of automatic sprinkler devices as applied to the prevention of fire in large warehouses.

Actual demonstration of the different kinds of fire extinguishers and the applications of Foamite will also be shown, along with a complete line of various types of signal apparatus, both automatic and manual. The senior fire protects will be in charge of the demonstrations to be held in the physics lecture room, second floor of the Main building.

Vast Electrical Exhibit

Progress in the field of electrical engineering is evident in the fea-

ARX NEWS

If "a house divided against itself cannot long exist" applies to the freshman class, the frosh will offer little resistance to the onslaught of the sophomores. A veritable civil war is taking place among the freshman architects, who have stripped men of their own ranks of their pants, and with these all of their **MODESTY** was shorn.

Prof. A. C. Wilmanns gave his construction enthusiasts quite a treat last week by substituting for his classes an inspection trip to the "Fair" grounds and a lecture by Mr. Charles E. Close of the National Lumber Association. Mr. Close's talk was illustrated with motion pictures of the logging, milling, and fabrication of lumber.

For the current senior project, which is due today, Bob TUFTS had no less distinguished a "nigger" than Charles GOLDMAN '31.

Al Marberg did Prof. Sholto Spears one better in the latter's Graphics class. After the good professor had attempted to close the transom to no avail, "Student" Marberg "muscle" in, completed the task, and was duly applauded for same. Prof. Spears (still looking for John Benya) graciously conceded the honor to Marberg.

Architects Cordes, Flyer, and Palmer submitted poster designs for the junior formal competition. "Blushing Bert" Palmer calmly walked off with first honors and was presented with a silver award. That'll look darned cute on her dresser, Bert!

To Whom it May Concern—be-ware—Refrain from further tactics such as hiding coats and vests!! Imagine a man's plight should he leave his trousers in the wolves' path!!

EAGLE EYE.

tured displays of the Department of Electrical Engineering. In the dynamo laboratory, first floor, Main building, the high-voltage Tesla oscillator will be the main attraction throughout the evening. Other exhibits will be the breakdown tests of insulation, wave forms by the oscillograph, demonstration of resuscitation, the rotating magnetic field, and three-phase motor windings.

A model of a light-operated garage door, a high frequency knife, photo-electric counter, and electromagnetic forces are a few of the many exhibits on display in the main laboratory, second floor, Main building. Television, the electro-cardiograph, and the neon oscillator and stroboscope will be featured in the junior electrical laboratory, also located on the second floor. The lie detector will be on display in the electrical lecture room.

Exhibit in Physics Lab.

The physics laboratory, first entrance, Chapin Hall, will feature as its exhibits, the discharge of electricity through gases at low pressures, music from an interrupted light beam, experiments on liquid air, and short radio waves. About twenty experiments will be performed by the students, and in addition an illustration will be given of Newton's Laws of Motion.

Additional physics experiments will be demonstrated in science hall, third floor in Main building. Demonstrations there are based on the transmission of sound over a beam of light, radio waves along wires, and various other experiments, including the rotating magnetic field.

Library Displays Rare Books

In the Library, which is located on the first floor of the Main Building, will be shown the rare books owned by the Institute.

An exhibit of architectural drawings is presented in the foyer of the Main building. The exhibit, consisting of those drawings compiled by Armour's architectural students, will contain a freshman composition plate, two freshman sketches, a sophomore project of a "Church and Church School," two junior projects consisting of a "Dean's Residence" and a "Suburban Bank," and a senior project portraying a "Synagogue." Work in archaeology will be represented by a "Persian Mosque," and an interior design is submitted in the form of a "Florist's Shop."

Lighting of Fair to Be Subject of Talk

Next Sunday on the Armour Institute radio program, Mr. D'Arcy Ryan will describe how the unique exterior lighting effects at A Century of Progress Exposition are achieved. Mr. Ryan is chief of the department of exterior illumination at the Exposition and has instituted many new ideas in order to get the desired effects.

In the basement of the Administration building an experimental lighting laboratory is constantly trying out new ideas in lighting engineering. In his talk, Mr. Ryan will explain how these unusual lighting effects are attained by the use of moving lights, and many other ingenious devices which have never before been used.

Last Sunday, Mr. Victor E. Marx, editor of the magazine "Baker's Helper" and vice-president of the American Society of Baking Engineers, presented a talk entitled "The Engineering in A Loaf of Bread."

He explained how the increased use of baked goods has brought about many important developments in the baking industry. Research men connected with the milk and milling industries have made many important contributions to the baking field.

Fraternity Notes

TRIANGLE

Kappa Phi Gamma of Northwestern University has been granted a charter as a chapter of Triangle Fraternity. The formal initiation of the chapter will take place in the fall.

On Saturday evening, May 27, the Armour Chapter will celebrate the tenth anniversary of its founding.

Triangle is planning to have a large group present at the Junior Prom. To date about six of the alumni have sent in for bids, which will bring the total number present to about fifteen. Arrangements are being made for the Senior Farewell Party at the chapter house.

Bud Windbigler, '31 is living at the house while working in the City.

BETA PSI

Following in the footsteps of his brother Emmet, who graduates this June, Harold Cordes, Arch. '36 was pledged to Beta chapter at a ceremony held last Friday.

Saturday, May 27, has been chosen as the evening for the annual Senior Farewell dance. It is expected that a large crowd of alumni will be on hand to help make this dance the best of the year.

Last Thursday afternoon witnessed the first meeting of the newly organized Mothers' Club.

DELTA TAU DELTA

Last Wednesday evening the annual May 10th or Founder's Day party commemorating the granting of the charter was held at the house. The entertainment and refreshments were excellent and many of the alumni were present. L. P. Brown came in from his home in Michigan to attend the party.

Last Sunday the May meeting of the Mother's Club was held. This meeting was especially successful inasmuch as it was the last meeting of the year and was held on Mother's Day.

PHI KAPPA SIGMA

The annual chapter picnic will be held at the Indiana State Dunes park next Sunday, May 21. We hope that the prolonged Spring rains will be over by that time.

Archie Evans who was with us till last fall writes from Randolph Field, Texas, reporting fine progress in both the aeronautical work and baseball with the army flyers.

PHI PI PHI

The annual Farewell Party given in honor of the departing seniors will be held at the Chapter House on May 27. A large crowd of actives and alumni will be on hand to give the seniors a big sendoff.

The baseball team is out for its tenth consecutive championship. The stellar pitching of Pfum and a hard

hitting team is expected to bring home the bacon.

Ray Stellar, Tom Sullivan, and Perry Hall visited the Chapter House last Tuesday.

RHO DELTA RHO

Brother Ira Krawitz has written the skit for the fraternity Circus Day Stunt and has already chosen the participants. Ira was also the author of last year's stunt.

The baseball game with Sigma Kappa Delta scheduled for last Thursday was postponed until Friday, May 12 at 6:30 p. m.

SIGMA KAPPA DELTA

Plans were discussed at the last meeting for the activities during Junior Week. We have been practicing for the fraternity sing, and hope to make a good showing. Members of the track team are rounding into shape in anticipation of Interfraternity track. A relay team also has been organized. Plans for a stunt for the pageant are under way. The pledges will give a radio dance on Saturday, May 20.

Brother Don Landwer, ex-'34 visited the house last week. Don expects to work this summer as a guide at the World's Fair.

The baseball team won its second round game against Phi Kappa Sigma. The team played good ball after a rather shaky start.

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Satisfy

.. all you
could
ask for!



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words...

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Chesterfield's way of blending and cross-blending fine Turkish and Domestic tobaccos brings out better flavor and aroma.

They Satisfy!

Chesterfield

the cigarette that's **MILDER**
the cigarette that **TASTES BETTER**

HAWK TRACK SQUAD SECOND IN ELMHURST INVITATIONAL MEET

North Central at Head of Scoring

TEAM	STANDING
North Central	53 1/2
ARMOUR TECH	30
Loyola	28 3/4
Elmhurst	22
Lake Forest	22

In a mad scramble for points, the Elmhurst Intercollegiate Invitational Meet ended with North Central College of Naperville in first place with Armour Tech second. Each team took two firsts but North Central figured in nearly every event to run up its total.

Nelson High Point Man
George Nelson nosed out Deiber of North Central for high point honors by scoring ten and three-quarters points, the latter having ten points to his credit. Bejeck, freshman high jumper, won the high jump at 5 ft. 8 in., to take one of the two Armour first places. Nelson took the other in the low hurdles and probably broke the Armour record in that event.

One of the hardest fought races was the half mile, in which Captain Sademan took second place, with Culver, North Central star, falling in third. The mile relay was also hotly contested, and the finish brought up the stands, when the Elmhurst anchor man nosed out his North Central opponent at the tape. Armour was third in this event.

Meet Is Success
Other point winners for Armour were Roberts, with fourth places in the discuss and javelin throws; Frateschi, who took third in the shot put; and Callen, fifth in the two mile. The Tech relay team was composed of Nelson, Pattison, Neal and Sademan, each of whom ran his quarter mile well. The entire squad may compete in the Sears "Y" Invitational next Saturday.

After the meet, a meeting was held, and George Nelson was elected captain for next season. Nick Kuehn was elected to the managership. Congratulations, men.

SUMMARIES
100 Yr. Dash—Won by Colletti, Loyola, second, Deiber, North Central; third, Frateschi, Elmhurst; fourth, Bloch, Morton; fifth, Thompson, North Central. Time—09.0.
120 Yd. High Hurdles—Won by Godfrey, North Central; second, Olander, Wheaton; third, Bade, Lake Forest; fourth, Tass, Wheaton; fifth, Nelson, Armour. Time—15.9.
1/4 Mile Run—Won by Bissinger, Loyola; second, Haag, North Central; third, Wolf, Elmhurst; fourth, Zanier, Lake Forest; fifth, Reinert, Wheaton. Time—4.07.
1/4 Mile Run—Won by Shuett, Elmhurst; second, Spring, Lake Forest; third, Marquardt, North Central; fourth, Quantock, North Central; fifth, Ronin, Loyola. Time—62.4.
220 Yd. Low Hurdles—Won by Nelson, Armour; second, Liebermann, Loyola; third, Nordin, Lake Forest; fourth, DeTuerck, Elmhurst; fifth, Dittman, North Central. Time—26.1.
220 Yd. Dash—Won by Deiber, North Central; second, Colletti, Loyola; third, Bloch, Morton; fourth, Spring, Lake Forest; fifth, DeTuerck, Elmhurst. Time—21.8.
880 Yd. Run—Won by Menden, LaGrange; second, Sademan, Armour; third, Culver, North Central; fourth, Wolf, Elmhurst; fifth, Ronin, Loyola. Time—2.02.
Two Mile Run—Won by Sneebberger, Morton; second, Haag, North Central; third, Worner, North Central; fourth, Bissinger, Loyola; fifth, Callen, Armour. Time—10:22.2.
Five Yards—Won by O'Hara, LaGrange; second, Ring, Thornton; third, Rusch, North Central; tied for fourth, Kaiser, Elmhurst; Garvey, Loyola; and Swanson, Morton. Height—11 ft.
High Jump—Won by Bejeck, Armour; tied for second, Nelson, Armour; Miller, North Central; and Lawrence, Wheaton; tied for third, Canterbury, Loyola and Crank, Loyola. Height—5 ft. 8 in.
Javelin Throw—Won by Oran, Wheaton; tied for second, Lantz, North Central and Zajicek, Thornton; fourth, Roberts, Armour; fifth, Vokac, Morton. Distance—163 ft. 6 in.
Shot Put—Won by Zajicek, Thornton; second, Goodman, Lake Forest; third, Frateschi, Armour; fourth, Yaseen, Thornton; fifth, Nolte, North Central. Distance—40 ft. 5 in.
Broad Jump—Won by Drausche, Elmhurst; second, Lawrence, Wheaton; third, Crank, Loyola; fourth, Bade, Lake Forest; fifth, Nelson, Armour. Distance—24 ft. 1 in.
Discuss Throw—Won by Roberts, Lake Forest; second, Thompson, North Central; third, Lincoln, Thornton; fourth, Roberts, Armour; fifth, Breutner, Elmhurst. Distance—118 ft. 4 1/2 in.
Mile Relay—Won by Elmhurst; second, North Central; third, Armour; fourth, Loyola; fifth, Morton. Time—3:30.

Baseball Team in Three Games This Week

Coach Krafft's baseball men have a chance this week to improve their standings in the Northern Intercollegiate conference race as they play Wheaton College tomorrow on the home field and Saturday meet Elmhurst at Elmhurst. The Armour team so far has been playing .500 ball in their league games, having defeated Wheaton and North Central and lost two games to Lake Forest, which team seems to have the "jinx sign" on the Tech nine this year.

Besides the two league contests scheduled for this week, there was a game scheduled with Michigan State Normal yesterday. These three tough games in one week give the Armour team a hard assignment, to say the least.

TECH SHORTS

Now is the time for all good Techhaws to come to the aid of their alma mammy. Junior Week is here and with the support of the entire student body, the event, or rather series of events, should be a fitting climax to a year of hard work. However, it would be a good idea for all who wish to exemplify their school spirit to use some discretion. There is always a chance of an unfortunate occurrence, and therefore, count one hundred before you jump into it, and keep a lookout for the other fellow.

The Tech track team put over the season with a surprise by winning second place in the Elmhurst Intercollegiate Invitational meet. North Central (gosh dang 'em) won the meet, with Loyola third and Elmhurst fourth. A trophy was given for each of the first three team places, and medals to three individual winners in every event.

The track team has just finished one of the best, if not the best, seasons of competition it has ever had. The Tech schedule contained more meets than that of any other middle-west collegiate squad. Not a little of this success was due to Coach Lonnie Stagg; Manager Maurice Erisman, quoted as the best manager the Tech squad has ever been in the hands of; and last but not least, Captain Elmer Sademan, who will be sorely missed upon graduation this June.

Tracksters Defeat Crane and Normal

Fourth Victory of Year for Tech Runners

The outdoor season for the 'Hawk trackmen, closed last week when Crane College and Chicago Normal finished second and third, respectively, in a triangular meet held on Ogden Field. This was the fourth victory of the season for the Tech men, who have lost only to Bradley Polytech, and to the U. of C. and North Central in a triangular meet.

SUMMARIES
100 yd. dash—Won by Dean, C.; second, Weis, N.; third, Concolino, A.; fourth, Rosen, A. Time 10.4.
1 mile run—Won by Hanson, A.; second, Fleisner, A.; third, Williams, A.; fourth, Callen, A. Time 5:13.6.
220 yd. dash—Won by Dean, C.; second, Weis, N.; third, Concolino, A.; fourth, Kreuzkamp, A. Time 24.8.
High hurdles—Won by Oberbeck, A.; second, Bejeck, A.; third, Rosen, A.; fourth, Rosenthal, C. Time 14.0.
440 yd. dash—Won by Neal, A.; second, Kenner, A.; third, Mitchell, C.; fourth, Sachs, C. Time 55.8.
Low hurdles—Won by Oberbeck, A.; second, Rosen, A.; third, Iritsch, C.; fourth, Rosenthal, C. Time 11.4.
880 yd. run—Won by Sademan, A.; second, Pattison, A.; third, Mitchell, C.; fourth, Fleck, A. Time 2:06.3.
High Jump—Won by Nelson, A.; second, Maravolo, N.; third, Kulpak, A.; fourth, Bejeck, A. Height 5'9".
Shot put—Won by Frateschi, A.; second, Roberts, A.; third, Kass, N.; fourth, Sweeney, N. Distance 37'9".
Discus—Won by Roberts, A.; second, Manly, A.; third, Kass, N.; fourth, Sweeney, N. Distance 111'10".
Broad jump—Won by Herstad, C.; second, Maravolo, N.; third, Nelson, A.; fourth, Bejeck, A. Distance 22'12".
Javelin—Won by Garbe, C.; second, E. Cordes, A.; third, Pfum, A.; fourth, H. Cordes, A. Distance 143'7".
Final Score—Armour 92; Crane 33; Normal 18.

Tech Tennis Men Vanquish DePaul

Despite the continued rains, which have handicapped the Armour Tech tennis team all spring, they managed to squeeze in between one shower and the next a tennis meet with the DePaul University squad last week on Wednesday afternoon. The matches were played at DePaul and consisted of three singles matches and two doubles matches.

After losing two of the three singles matches the Tech team rallied to take the two doubles matches and win the meet by three matches to two. Captain Streb figured prominently in Armour's victory by winning his singles contest from Nims of DePaul, 5-7, 6-3, 6-2, and pairing with Lammers in the doubles to defeat Nims and Barder, 3-6, 6-4, 6-2. The Tech team's other point was won by McDonough and Esbensen who defeated Lane and Fitzgerald, 6-4, 6-2.

Two Meets This Week
This week (weather permitting) the Tech tennis squad will play matches with George William's College on the Armour Courts, Tuesday; and journey to Lake Forest Thursday to play Lake Forest's tennis team.

SINGLES
Streb, Armour, defeated Nims, De Paul, 5-7, 6-3, 6-2. Barder, De Paul, defeated Armsbury, Armour, 6-0, 4-6, 6-3. Fitzgerald, De Paul, defeated Paine, Armour, 6-8, 7-5, 6-2.
DOUBLES
Streb and Lammers, Armour, defeated Nims and Barder, De Paul, 3-6, 6-4, 6-2. McDonough and Esbensen, Armour, defeated Lane and Fitzgerald, De Paul, 6-4, 6-2.

TECHAWKS DROP SECOND LEAGUE GAME OF SEASON

Lake Forest made it two straight over the Armour Tech nine by winning their second encounter of the season on Ogden Field last Wednesday. The Lake Foresters made five runs on four hits while the Techmen could only garner three runs on a total of nine hits. It was a tough game for "Lefty" Mayer to lose, since every run which the visitors scored came under the classification of "unearned."

Until the third inning the game was scoreless. In this inning Lake Forest accumulated three runs in a very lucky manner without the necessity of getting a single hit. After retiring the first two men to face him in the inning, Mayer suddenly seemed to lose control and wilted the next two batters and hit the third man to fill the bases. These three men scored when a pop up fell between Tad Omiecinski and Adamec. The next man finished the inning by flying out to Vic Omiecinski.

For the remaining five innings of the game the bats of the Kraffmen

did not function. Mayer got the only hit, a double over the right field fence.

Box Score													
Armour (3)	AB	R	H	PO	A	E		AB	R	H	PO	A	E
Reed, Jr.	4	0	0	0	0	0		4	0	0	0	0	0
Sommer, cf.	4	1	2	0	0	0		3	1	0	0	0	0
V. Omiecinski, ss.	3	1	1	3	0	1		3	0	1	9	2	0
T. Omiecinski, lb.	4	0	1	13	0	4		4	0	1	9	2	0
Lillia, 3b.	4	0	1	0	2	0		4	2	2	10	0	0
Adamec, rf.	3	1	1	3	0	0		1	0	0	0	0	0
Mayer, p.	3	0	2	0	12	0		4	1	0	0	0	0
Lukas, c.	4	0	0	7	2	1		4	0	0	0	3	0
Callahan, 2b.	4	0	1	1	2	0		4	0	2	11	0	0
Buchne, p.	1	0	0	0	0	0							
Totals	34	3	9	27	18	6							
Lake Forest (5)	AB	R	H	PO	A	E		AB	R	H	PO	A	E
Lake, Jr.	3	1	0	0	0	0		3	1	0	0	0	0
Collins, cf.	3	0	1	0	1	0		3	0	1	0	0	0
Parsons, c.	4	0	1	9	2	0		4	0	1	9	2	0
Fitzgerald, 3b.	4	1	0	1	2	0		4	2	2	10	0	0
Dohr, lb.	4	2	2	10	0	0		1	0	0	0	0	0
Katzenmiller, ss.	1	0	0	0	0	0		4	1	0	0	0	0
Barenman, rf.	4	1	1	3	0	0		4	0	0	0	3	0
Lutz, 2b.	4	0	0	0	3	0		4	0	2	11	0	0
Drakeman, p.	4	0	0	2	11	0							
Totals	31	5	4	27	20	0							
Lake Forest				063	020	000-5							
Armour				002	100	000-3							
Two-base hits—Sommer (2), T. Omiecinski, Mayer, and Parsons. Stolen bases—V. Omiecinski, Dohr, and Buchne. Errors—Mayer, 1; Callahan, 2; Drakeman, 2. Hit by pitcher—by Mayer, 1; by Drakeman, 2. Struck out by Mayer, 6; by Drakeman, 8. Umpire—Glick.													

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CUT ROPE
MADE WHOLE AGAIN

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FUNNY YOU SHOULD MENTION IT. I SAW A WONDERFUL MAGIC STUNT LAST NIGHT. FACT IS, I TOOK PART IN IT.

THE FAMOUS ROPE TRICK
ROPE ABOUT TO BE CUT

YOU NOW SEE, GENTLEMEN, THAT I HAVE CUT THE ROPE IN TWO.
O.K. IT'S CUT.

ROPE RESTORED
YOU SEE THAT IT'S LENGTH IS THE SAME AS BEFORE I CUT IT.

I NEVER DID FIGURE OUT HOW HE DID IT. HE SURE FOOLED ME!
IT'S SIMPLE IF YOU KNOW THE TRICK.

THE CUT ROPE FOOLER
MAGICIAN SHOWS HAND EMPTY—
BUT HAS SMALL LOOP OF ROPE CONCEALED BEHIND FIRST AND SECOND FINGERS OF LEFT HAND—
THIS IS THE LOOP THAT HE CUTS.

HOW ABOUT A SMOKE, DOC?
NOT ONE OF THOSE. I LIKE MY VOICE

AREN'T THEY THE MIDWEST CIGARETTES?
NO... JUST THE FLATTEST. CAMELS ARE MILD, AND THEY TASTE GOOD, TOO. I PRESCRIBE A CAMEL FOR YOU.

YOU'RE THE DOCTOR.

M-M-M, WHAT A SMOKE! IT'S ME FOR CAMELS FROM NOW ON.

YOU'LL LIKE THOSE COSTLIER TOBACCOS MORE AND MORE ALL THE TIME.

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