

KRAFFTSMEN TO START '29 WITH TWO HARD GAMES

Booked To Play Naperville
Tomorrow and N. U.
Saturday

COACH INVADERS ALMA MATER

(Picture on back page)
Tomorrow and Saturday our crafty Krafftsmen will take action in two cage conflicts; one in Naperville and the other in our windy city. The Saturday game will be played against Northwestern University at the McKinlock Campus at 122nd Field Artillery at 2:30 P.M.

Krafft Is Personally Involved

Of all the games that are scheduled this season, none perhaps will be of a more personal concern to Coach Krafft than the impending game with Naperville College which will take place on the Naperville floor tomorrow evening.

Alumnus vs. Alma Mater

Coach Krafft places a peculiar value on winning that game and the motive of his desires can be explained by the fact that Naperville has in its shelf a record indicating that Mr. W. C. Krafft is an alumnus of that school. This being the case our mentor will naturally be bent on making a little impression on his alma-mater and nothing could be more decisive than a win over that school.

Naperville, like many of the other schools, has been given space on Krafft's vengeance list and tomorrow's conflict will determine whether they are recorded in black or red ink.

Odds Against Armour

Judging from the season's record of the two teams, there is but little doubt that Naperville stands out as the most prestigious. They have victories over Hope College of Michigan and Aurora College, and have several of last year's performers in their line-up to carry them through for more victories. Yet since they have not faced Armour before gaining this distinction, they'll be obliged to limit themselves to a few whispers when it comes to talking about the acquirement of more prestige after Friday's engagement.

Armour Prospers by Past Experience

Armour's first two contests bore but little fruit, but the fruit that did spring forth was knowledge. That knowledge then was utilized to an advantage in the Chicago Normal game. Although the cagemen dropped that encounter they had annexed more knowledge plus experience. Slowly they are breaking down the barrier that kept them from winning games and a change of results is expected to occur as a result of their consistent strife.

One thing, perhaps that can be attributed to Armour's inauspicious start is the fact that they've merely sought to win a game rather than to develop a sense of greediness to win.

Indications point out that they have adopted this sense of avariciousness and all that is necessary now is a few point collecting devices.

Krafft in Need of Keen-Eyed Cagers

This matter of collecting points has been quite problematical and Krafft's only solution is that two of his cagemen must develop more skill in the art of basket shooting or he must set out and find a duet that already are well inclined in that line of work.

The Chicago Normal game gave every indication of this necessity when the local outfit was nosed out after establishing a seven point lead.

Armour's Ablest Five to Start

From time to time different players took the stand on the hardwood, but among Krafft's choicest selection is Augustine and Manz at the guard positions, Tell at center, and Simpson and Carlson at forwards. This quintet of hustlers will be placed to start the game and win it if possible. Ott, Rossing, and Rutkowski will be among those that will await the gong which will send them in the mixup when Coach Krafft makes changes in the lineup.

Info Posted On Civil Service Examinations

Examination qualifications for service in the United States government have been posted on the departmental bulletin boards and the bulletin board of the Main Building. Applications will be accepted from senior students subject to their being able to furnish at the end of the college year proof of their graduation. This means that, under favorable conditions, a senior student may be examined and placed upon the employment list, certified, and appointed before he has completed his college year, and may report for duty immediately following his graduation if he so desires; the only condition in such a case being that the appointee furnish to the United States Civil Service Commission proof of graduation before reporting for duty.

\$2000 For Junior Grade

The present entrance salary for the junior grade of technical, professional, and scientific positions is \$2,000 a year. Promotion may be made to \$2,500 a year without change in assignment.

Examination in Two Parts

The examination for Junior Engineer will be rated on two parts: 50% on general physics, mathematics, and general engineering; and 50% on the optional subject. The optional subject will be one of the following classifications, subject to the choice of the applicant: (1) aeronautical, (2) agricultural, (3) chemical, (4) civil, (5) electrical, (6) mechanical, (7) mining, (8) naval architecture and marine engineering, and (9) structural steel and concrete.

File Before January 29

Application blanks may be obtained at the post-office and should be on file with the U. S. Civil Service Commission not later than January 22, 1929. The date for the assembling of the competitors will be stated on the admission cards, and will be about fifteen days after the close of the receipt of application.

For further information as to duties, residence, physical examination, seniority, etc., refer to the Civil Service Bulletins.

Old Arch Firm Takes Nedveds As Partners

Professor Rudolph James Nedved, '21, and Mrs. Elizabeth Kimball Nedved, '25, both graduates of the architectural department were recently made active partners in one of Chicago's oldest architectural firms. This firm was formerly known as Hamilton, Fellows, and Wilkinson, but is now rechristened as Hamilton, Fellows, and Nedved. L. E. Wilkinson has retired from the firm and will practice architecture in the east, specializing in churches.

Wins Travelling Scholarship

Professor Nedved graduated from Armour in '21 and travelled in Europe after winning the Chicago Travelling Scholarship. In London he met his future wife, Elizabeth Kimball, the daughter of Mr. and Mrs. Ernest Kimball of Glencoe. Upon returning to America in 1924, Professor Nedved became connected with Tallmadge and Watson, church architects; and later with Schmidt, Garden, and Erickson. Professor Nedved was president of the Architectural Sketch Club and also of the Architectural Exhibition League for two years.

Water Color Exhibits

While travelling in Europe, Mrs. Nedved made a great many water color sketches which she has exhibited in the International Water Color Show, the Chicago Artist's Exhibition, and the Chicago Architectural Exhibition.

Professor Nedved has been connected with the Architectural Course at Armour since 1924, and for the past three years, he and Mrs. Nedved have practiced their profession in the Marquette Building.

Greetings for the New Year

The Armour Institute of Technology is entering the New Year with enthusiasm, determination, and well-founded optimism. While we feel that we have accomplished much in educational progress, we start the New Year with the determination to improve and make this year better than the last. This can be achieved only by the co-operation of the young men who make up our student body. We are confident that the future will bring to the Institute such blessings as we feel that we deserve, and among them will be the fruits of the wonderfully loyal spirit so manifest among the students and alumni. With this spirit in mind, the faculty join me in expressing our hope that the New Year may be a happy and successful one for each of you.

Howard M. Raymond

Fraternity Contests Now Take Spotlight

Now that the little basketball warfare between inter-class contestants has been settled, John Gamble, '29, promoter of the coming event has "leased" the school gym for the next two weeks and will foster a scene which promises to be as dramatic or perhaps more so than the inter-class meet.

Inter-fraternity basketball will assume the spotlight in inter-school events between the dates of January 14 and the 24. Ten teams representing a like number of fraternities will feature in the hardwood classic in eight elimination contests plus the final between the leaders of the respective divisions, for a total of nine games.

Games Will Be Hotly Contested

This season finds that the ten teams making up the inter-fraternity roster feature neither a dark horse or a bright luminary as the case has been in the previous years. No doubt but what the nine games will all be closely contested and the margin of difference in any single game should not surpass the one figure mark.

Phi Pi's Champs Ten Years

Nine of the ten teams look forward to attaining distinction as 1929 champions while only one team seeks to retain the distinction of remaining class champions. That team is the Phi Pi Phi fraternity team. For the (Continued on page 3, col. 4)

Negro Prize Artist Dr. Gunsaulus' Friend

A Chicago Negro, Archibald J. Motley, Jr., 550 W. 60th St., who received his artistic education at the Art Institute partly through the help of the late Dr. Frank W. Gunsaulus of Armour Institute, has recently been awarded the 1928 gold medal and \$400 offered by the Harmon Foundation.

"The Octoroon Girl" is Motley's winning portrait and is now on exhibit in the Negro art showing at 500 Riverside Drive, New York.

In 1925 his "Mulatress" won the Logan prize in Chicago.

Motley was born in New Orleans October 7, 1891. His family moved to Chicago, where he attended school and graduated from Ingleside High School.

Odd jobs around the Art Institute paid for three years of his schooling there.

PHYSICS II. AT NIGHT SCHOOL

All those men who would be interested in taking Physics II in night school next semester see George Horras or D. T. Smith.

Next semester's programs have been posted in the display cases at the west side of the Main Building foyer. Any conflicts are to be reported to the Dean's Office immediately.

FINAL TOUCHES MADE AS JUNIOR HOP APPROACHES

Selling of Bids Is Now Keeping Committee In Trim

The Junior Class will open the social activities of the new year when they hold their Informal Dance on Friday, January 18, in the Dutch Room of the New Bismarck Hotel. The Chicago Rhythm Kings will furnish the music for the evening.

Chicago Rhythm Kings Popular

This orchestra has proved popular for its sideline of entertainment that is provided in conjunction with their musical features. Each player puts on a singing or dancing accompaniment during the course of the evening.

In Large Demand

Besides recording for the Brunswick records, the Chicago Rhythm Kings are kept busy furnishing music and entertainment for private parties and gatherings. A dance last Friday night at the Evanston Country Club was the most recent engagement.

Committee Progresses

Bob Serson and his committee are busy at the present time on the special entertainment features to be presented. Bids are available and may be obtained from a representative who is stationed in the north east corner of the library from one to two o'clock any day, or the bids may be bought from members of any of the class social committees.

25 Get Half-Price Tickets At Goodman

A theatre party of 25, or more, which is to attend the Goodman Memorial Theatre next week Friday to see the play called "Six Characters in Search of an Author" is being conducted under the direction of Professor Walter Hendricks of the English Department.

By special arrangement with the management, students included in this party will be offered a special price of 75c for tickets instead of the usual \$1.50.

The play to be witnessed is one written by the famous Italian dramatist Pirandello, and is advertised to be one of the most remarkable plays of the present century. The story concerns six characters from an unwritten drama who come to the theatre demanding that their play be staged. Throughout the play the author employs humor, irony, and pathos with masterly skill. The plot develops rapidly, culminating in a climax of unusual dramatic power.

The performance on January 18 is to be the first Chicago showing and is to be staged under the direction of Thomas Wood Stevens.

Students who desire to join this party should sign their names on a sheet provided for that purpose which is posted on the bulletin board in the foyer of the main building.

Coffin Foundation Awards Fellowships

The terms of the Charles A. Coffin Foundation established by the General Electric Company make provision for the award of five thousand dollars annually for fellowships to graduates of the universities, colleges, and technical schools of the United States who have shown, by the character of their work, that they could, with advantage, undertake or continue research work in educational institutions either in this country or abroad. The fields in which these fellowships are to be awarded are Electricity, Physics, and Physical Chemistry.

Minimum Fellowship Allowance of \$500.00

The Committee desires to make the awards to men who, without financial assistance, would be unable to devote themselves to research work. The fellowships will carry a minimum allowance of five hundred dollars. This allowance may be increased to meet the special needs of applicants to whom the Committee decides to award the Fellowships.

File Applications in Dean's Office

Candidates for the Charles A. Coffin Fellowships should file applications on forms provided for that purpose, and obtainable in the Dean's office. Applications will be welcomed from seniors desiring to do research (Continued on page 3, col. 3)

"Engineer" Out Again Last Week of Month

The second issue of the Armour Engineer will be ready for distribution during the last week of January according to the editors, L. F. Bernhard and M. B. Golber.

"Bureau of Standards" Featured

The feature article will be one entitled "Bureau of Standards" by H. G. Bontell. "Automobile Testing" will be the subject of an article by James C. Zeder, Chief Engineer of the Highland Park division of the Chrysler Corporation. Mr. Zeder describes special test equipment used in the testing of motor cars.

R. H. Earle, '17, will give the second installment of "Development of Hydraulic Turbines" which will treat of the Francis and Nagler turbines, the latter of which is used for small heads.

Two Student Articles

Two student articles will appear in this issue. There will be a resume of stage lighting by F. H. Juergensen, E.E., '29, and M. B. Golber, M.E., '29, will give a description of the various methods of color photography.

Students are again reminded that the "Lost and Found" headquarters is in the Dean's Office. At the present time there are several unclaimed articles that are awaiting their rightful owners.

\$25 CASH AWAITS POCKET OF SOME ARMOUR STUDENT

\$100 More in Prospect For
Winner of I. C. Essay
Contest

WRITE ON "R. R. FUTURE"

Cash prizes totaling \$125 will be open to competition by undergraduate students of Armour Institute of Technology in an essay contest which has just been announced by L. A. Downs, president of the Illinois Central System. This contest, which calls for essays of between 600 and 1,000 words on "The Future of the Railroads," will close February 28.

\$25 For Best From Armour

A prize of \$25 is offered for the best essay from Armour Institute of Technology. The winner of this prize will in addition be eligible for a system-wide award of \$100, the contestants for which will be the winners from the various colleges and universities on the Illinois Central System in which similar local contests are now in progress.

Must Be Typewritten

The essays are to be submitted by mail to L. A. Downs, president, Illinois Central System, Chicago, Ill. They are to be typewritten, double-spaced, on white paper of letterhead size (8 1/2 by 11 inches), and the name and address of the author and the name of the college or university represented are to be shown on the upper left-hand corner of the first page. The essays are to be submitted flat or folded—not rolled.

I. C. Officers Act as Judges

The judges will be the following officers of the Illinois Central System: G. J. Bunting, vice-president, accounting and treasury departments; F. L. Thompson, vice-president, Chicago terminal improvement and valuation departments; R. V. Fletcher, general counsel. The Illinois Central System reserves the right to retain for its own use all prize-winning essays.

To Test Value of Advertising

The purpose of this contest, according to President Downs, is to make a test of student interest in the educational advertisements on railway topics which the Illinois Central System has been placing in student publications on its lines for several years. Copies of preceding years' advertisements will be furnished those desiring them upon request addressed to President Downs.

Christmas Concert Is Phenomenal Success

The Musical Clubs topped the student activities for the year 1928 when they gave their Christmas Concert on Thursday, December 20. The varied entertainment lasted for two hours following clamorous applause for the various musical organizations.

Rezac's Last Appearance as Leader

This program marked the last appearance of George A. Rezac as leader of the band and orchestra. He has conducted the former for four years and has made it "one of the peppiest organizations in school," to use his own words.

Rezac's xylophone solos literally "brought the house down" and evidently furnished a form of entertainment which found no saturation point in the audience.

Glee Club Entertains

Dr. Protheroe conducted the Glee Club, made up of the Institute's local talent, and presented two of his own compositions among the offerings. These were "To Beth'lem We'll Go" and "The Song of the Marching Men."

Roland Spencer, '30, sang two solos to the accompaniment of Dr. Protheroe.

"Stresses and Strains" under the leadership of Edward M. Craig, '31 played some popular numbers after which the assembly disbanded and great demand for more music.

ARMOUR TECH NEWS

Student Publication of the ARMOUR INSTITUTE OF TECHNOLOGY



CHICAGO, ILLINOIS

Published Weekly During the College Year

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MANHOOD, NOT SCHOLARSHIP, IS THE FIRST AIM OF EDUCATION. Ernest Thompson Seton.

A Plea

At the head of this column a revised list of the members of the staff of the NEWS appears. This new arrangement represents a reorganization of the staff to work more efficiently than has heretofore been the case.

We wish, at the beginning of the new year, to make a plea to students of any class for their help in producing this weekly newspaper. Anyone in the school is eligible.

We offer no remuneration for anyone. All we offer is a lot of good experience, a little personal glorification, and the thrill you get out of seeing your write-up in print.

Balanced Concentration

Concentration depends entirely upon the individual. Two persons, in having to do the same amount of so-called brain work, may employ radically different degrees of concentration and yet the same result be reached by both parties at the same time.

Very few of us have the natural quality of unerringly analyzing a situation. To overcome this, we must concentrate our thoughts upon the subject in order to facilitate the correct solution.

It is necessary that this balanced effort be maintained, not only in scholastic effort but in all walks of life. When in school, equilibrium is automatically provided by the work that is "required" in and out of class.

THE SLIPSTICK

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

9

Well, it's now 1929 and to start the new season out right we are presenting a new and much more fascinating form of poetry, known as the build-your-own verse. Here goes:

Every little wind that blows
.....expose,
.....hose.
.....breeze
.....sees
.....knees.

Musta Been a Fraternity Man

Beggar: Give me a little money for a cup of coffee, willya?

College Man: Money? I haven't any money. (Fumbling in his pockets, he suddenly finds some.) Migosh, I must have somebody else's suit on.

As we hinted before, and as you may have derived for yourself, a new year has arrived, and, as most new years do, furnishes the colyum with some swell space filler.

Let us first shed a tear for the sad case of the drawing student who can make better eights than nines. Next take the still sadder case of the freshman who has made resolutions to do his homework on time.

Leap year, too, is gone, and the fellows again must take the initiative. Oh, those horrible proposals, and you haven't a Murad along to acquire that nonchalant attitude, nor a Chesterfield to fill you with courage, and tho the ads don't mention it, hot air. Stop—it's too sad to continue.

PEDESTRIAN—One who gets in the way of an automobile.

This Futuristic Staff

Dicke: Don't you think my mustache becoming? Her: It may be coming but it's not here yet. —Freddie.

With all those evenings free over the vacation, we hope that the students have participated in those delightful sitting up exercises. Mmm and how.

The United States provides a profitable market for Canadian raw material. Chicago Journal of Commerce. Raw! It simply cuts your tonsils right off. —C.R.H.

Listen here, C.R.H., you musta had the mild brand. The stuff we had was so strong that if dropped on a 'coon coat it burned off all the hair and just left the lining, and you had a top coat left.

Santa Claus made us the present of a nice new Scotch story. A Scot, badly crippled, fell in a street undergoing repairs, and saw that he was going to be crushed by the steam roller. With extreme presence of mind, he rolled over on his side so that his suit would be pressed for the funeral.

Prof. Leigh tells the one about the blind boy who could see his father only 'cause he was apparent. —Freddie.

And Get Paid For It!

Lives of stars, prove to us,
In the sheets we've scanned,
We, too, could have been the berries,
Had we smoked another brand.

May we extend a rising vote of thanks to those equivocating professors, who just wouldn't give any homework over the vacation, but handed out a quiz the first day back.

Put Out the Lamp, Diogenes!

Believe it or not, Rudolf P. refused to answer to his own name in General Lit, because he had answered to another by mistake. —F.B.A.

—and so I went to bed at ten o'clock New Year's Eve. This doesn't need a caption; it's a joke in itself.

Corridor Gossip

What ya goin' to do now?
Nothin'. What are you doin'?
Nothin'.
Aw, well, let's go to class.

The Lowdown on a Private Interview

Inquiring Reporter: Why don't you print some fast ones now and then in your column?

Us: We have to make some concession to the decent element in the college once in a while.

It: Oh, let him wait!

All seemed strange. Queer hieroglyphics adorned the walls, and a droning voice intoned mysterious, exotic phrases, that were dimly heard and meant nought. Horrible odors eddied into the room. . . loud noises started and stopped with violent contrast to the prevailing quiet.

Book Reviews

By JOEL M. JACOBSON, '29

The Logic of Modern Physics (Macmillan)

By P. W. BRIDGMAN

Mr. P. W. Bridgman, professor of mathematics and natural history at Harvard University, in this discussion of the basis of modern physical theory, shows very clearly, even to one who does not understand all the subject matter, that it is time that a complete revision in our fundamental concepts and definitions be made if physical theory is to keep pace with experimental fact.

Though the average reader has no particular use for these theories, it is of interest to know what they are and the suggestions as to their eventual use. Let us examine, for instance, the familiar concept of length. We can define a physical fact only by the operations we must go through in order to discover it.

Another interesting idea which the operational concept brings up is that of the "meaningless question." Any question about nature which cannot be answered in terms of operations has no meaning.

1. May time have a beginning or an end?
2. May space or time be discontinuous?
3. Is the sensation which I call blue really the same as that which my neighbor calls blue?

4. Is a universe possible in which 2 plus 2 does not equal 4?
"Jorgenson": By Tristram Tupper
The style in which this story is written is such that the book might well be called "The Epic of Civil Engineering."

The style in which this story is written is such that the book might well be called "The Epic of Civil Engineering." To Tupper, the Engineer is a visionary, able to feel the emotions of his materials, men, steel, concrete; he is a practical, well trained, efficient worker; he is human, like all of us, and just as likely to err.

MISFITS IN COLLEGE

By A. O. BOWDEN
In the October "Journal of Education"

You are a misfit if you cannot let yourself be hypnotized occasionally by books.

You are a misfit if you do not or cannot learn in college to stay alone and acquire the ability to instruct yourself to criticize your own thinking. All instruction is individual.

You are a misfit if you do not learn to play in some wholesome way, to play with ideas, to play in your imagination and refrain from letting your own accomplishment end in your fancy.

You are a misfit if you do not learn to love work, to plan your study, your day, your leisure.

You are a misfit in college if you cannot learn to be alone, to examine your ideas and ideals.

You are a misfit in college if you cannot learn in college to take defeat unflinchingly, but never give up.

If you understand your teachers and know your place, if you can carry your part of the responsible tasks imposed upon you, if you can cooperate and work harmoniously with your college mates, if you can live up to the best and most accepted moral standards even in the face of temptations, you are fit for a place in college life.

CARD OF THANKS

I wish to express the sincere thanks of my mother and family for the kindness and sympathy of friends at the Armour Institute during our recent bereavement. C. C. FRAE.

The Inquiring Reporter

Question: Did you make any New Year's resolutions?

James E. Wack, '29, E.E.: No, I never make resolutions.

Stanley "Dough" Livingston, '99, C.O.D.: I resolved to get the dough, tell with the students.

Charles Mitchell, '32, M.E.: I did not make any because I always break them all anyhow. I think it is better not to make any than to make some that you can't keep.

L. P. Brown, '29, E.E.: I resolved not to wear a collegiate hat. I resolved to bring the Engineer out on time. I resolved not to take Moreton seriously next semester.

Z. T. Lencki, '30, M.E.: I didn't make any because, like Winnie Winkle, I'd break them anyway. I'll be honest with myself.

V. P. Peterson, '29, E.E.: I resolved not to wear a Delt tie. I have no other resolutions of importance.

R. L. Young, '30, Ch.E.: I made some before New Year's. They have to do with something outside of school and are of a nature which I cannot disclose; she might not like it. I intend to keep the three of them for at least one year.

Frank Oster, our renowned custodian, announces that expenses must be curtailed even when the drying of hands is concerned. A new type of paper towel is being used in the wash-rooms. It is claimed that one towel of the new type will suffice to dry the hands thoroughly.

Advertisement for Henry C. Lytton & Sons featuring Black Pony and Natural Black Galloway Fur Coats. Price reduced to \$37.50. For any outdoor sport or any winter wear. Fine, all wool, padded linings. Durable and odorless. 50, 52, 54 inches long. Large roll collar. \$85 Gray Galloway Reduced to \$42.50. Raccoon Coats, \$500, \$650, \$750.

Do You Collect Air Mail Stamps? You're An Aerophilatelist

Value of First-Flight Covers Enhanced By Demand

The hobby of collecting air mail stamps and covers is rapidly growing in popularity and threatens to win more enthusiasts than the old philately, in which stamps of all kinds were sought for.

Each time that a new city is added to our wonderful air mail system, the Government provides the postmaster of the newcomer with a special first-flight cancellation which is applied to all letters mailed the first day. The collecting of these first-flight, or first-day covers, with their official cachets, has developed into one of the most popular branches of present-day philately. The Government has done a great deal for the hobby by varying the style, size and color of the cancels, so as to make them especially attractive.

Previous to 1926, the existing air mail lines (the Transcontinental between New York and San Francisco and the Overnight Service between New York and Chicago) were operated directly by the Post Office Department under authority of, and with an appropriation by Congress. The Post Office Department, by the Air Mail Act passed in 1925, was authorized to contract with private capital for the carrying of mails via the air. These contracts were to be let by public competitive bidding as is the custom in practically all Government work, and in the carrying of the ordinary mails. The act also provided assistance to these contractors such as the lighting of airways, etc., which work was to be entrusted to the Department of Commerce at Washington.

Acting under this authority the Post Office Department immediately called for bids on a number of contemplated routes, the first two routes being placed in service simultaneously on Feb. 6, 1926.

From the above, the term "Contract Air Mail" will be readily understood. In addition to this, for purposes of designation, each route as awarded has been given a number, starting with 1. These routes are familiarly referred to as C. A. M. No. 1, etc., and this designation is also carried out in Department correspondence, orders, etc.

From the beginning, the Post Office Department at Washington has recognized the inauguration of each route by providing a special cancellation on cachet, appropriately worded to express the significance of the event. This cachet is furnished for use on the first trip of such route only, and thus makes the cover or letter of historical interest and significance.

To collect the Air Mail covers intelligently, several "tools" are necessary, one of which is to join an Air Mail Society. Some of the most enthusiastic believers in the hobby of aerophilately have organized a society in Chicago.

Here is what they are doing. Members are supplied with advance information of special flights, dedications, and official flights if they so desire. At every meeting one of the members gives a lecture on the first flight over a different U. S. air mail route, telling any interesting facts that careful research offers. These talks are duplicated and every member receives a copy for his files, thereby gradually accumulating a history of the first flights in the U. S. A sales department is maintained for members through which they may buy covers they need or dispose of any duplicates.

The headquarters of the National Air Mail Society, as the organization is called, are in the Capitol Building, at 159 N. State St., Room 1623.

12,000 completed and balanced Chemical Equations Classified for ready reference. At HALF regular PRICE in the ARMOUR TECH BOOKSTORE

You Are Always Welcome at the Silver Gray Restaurant 3102 So. Wentworth Ave. Special Service for Students

Here's Student Who Earns Way By Acting

Varied are the part time positions held by Armour students, but Louis Polan, sophomore chemical, lays claim to the most unusual, and probably the most lucrative of them all. He holds down a character part in George Jessel's current production, "The War Song."

"Lou's" present job was obtained largely through chance. Previous to this time he was working on the managing staff of the Garrick Theater. The superintendent of "The War Song," during one of his visits to the Garrick, saw Lou and asked him to try out for the part of a doughboy in his show. The tryout revealed Lou's natural ability, and he was given a part immediately.

The show is soon to go on tour, but Lou is undecided as yet whether or not he will go with it. "I realize that I am passing up an opportunity, but I believe that I will come out ahead in the end by finishing my four years at Armour," he declared.

Art Institute Curator Of Prints Dies of Flu

William McCullom McKee, curator of prints at the Chicago Art Institute who died Saturday night at his mother's home in Pittsburgh, was buried there Monday afternoon.

Mr. McKee had gone east to spend the Christmas holidays with his mother and contracted the flu soon after reaching Pittsburgh. Pneumonia developed, causing his death. His mother, Mrs. James McKee, also was stricken by the flu and is reported to be still seriously ill.

Mr. McKee was born in Pittsburgh, educated at the University of Pittsburgh, and became affiliated with the staff of the Carnegie library there upon his graduation. He later travelled extensively in Europe, studying the collections in continental museums. On his return from abroad, he became curator of prints at the Cleveland Art museum, leaving there to assume the same post with the Art Institute seven years ago. Mr. McKee was known as one of the most popular bachelors in Chicago society. He was 44 years old and a member of the Arts Club.

NOTED GERMAN SCIENTIST DESIGNS COAL DUST ENGINE

Rudolf Pawlikowski, of the Kosmos engine works at Goerlitz, Germany, and collaborator with Dr. Diesel who introduced the Diesel engine to the world in 1897, has designed a new type of engine called the "dust engine" or "rupamotor." This engine, which runs on pulverized coal instead of fuel oil, has been successfully operated since 1916. The operating cost is less than that of any other engine. Mr. Pawlikowski thinks it is very probable that this engine will be used in automobiles sometime in the future.

Junior: Can you typewrite?
Senior: Yes, I use the biblical system.
Junior: What's that?
Senior: Seek and ye shall find.
—A.J.

Lee De Forest Made Early Wireless Tests From A.I.T. To Lakota

Upon visiting the attic of the Institute, which is only attainable by means of a small stairway from the fifth floor, one discovers that it is used as a store-room for chemical supplies. Like all attics, possessing opportunities for mysterious discoveries, this one is not devoid of this item. One's attention is attracted by a rod hanging from the ceiling from which are suspended four balls, from about four to eight inches in diameter. There appearance is not very indicative of the history which goes with them.

In 1900, when wireless telegraphy was in its infancy, these spheres were used for wireless communication experiments conducted between the Institute and the Lakota Hotel, on 31st and Michigan Ave., by a man who has made the great progress of radio possible through his invention. This person, who later discovered the radio vacuum tube, was Lee De Forest.

De Forest moved to the Armour Flats in 1900, where he roomed with a good friend and grub-staker. Like all good engineers, the problem which confronted him most was that of finance. He was a past-master of the art of economics. The electrical faculty of the Institute gave him every practical facility in its power to enable him to carry on his experiments with the electrolytic detector and wireless receiving system on which he was then working. Particularly interested in his experiments was the late Professor Clarence E. Freeman, to whom De Forest acted as laboratory assistant. Professor Clarence E. Freeman was a brother of the present head of the Electrical Engineering Department, Professor Ernest H. Freeman.

After many months of enduring hardships and confronting many obstacles, one may imagine his anticipation when, standing in the rain on top of the Lakota Hotel, he anxiously listened in the telephone receivers for the prearranged signal. Upon hearing the signal, De Forest, an ardent lover of the opera, exclaimed that the sound of the signal was the sweetest music heard by man. This experiment started De Forest, who now is recognized as a pioneer and leader in the field of wireless telegraphy and telephony, on the path to many inventions in that line, finally leading to the perfection of the audion tube which made him world famous. His intensely human recountal of success attained by pluck and tenacity of will are admired by every engineer and prove invigorating to the student who looks into the future and sees only stern toil ahead.

Coffin Foundation Awards Fellowships

(Continued from page 1)
work as a part of the requirements for an advanced degree as well as graduates of universities, colleges, and technical schools, but any award to a senior will be conditioned upon his graduation.
Applications should be brought in to the Dean's office in time to be forwarded to Schenectady before Mar. 1. The Dean's office will send the names of the two men who in the opinion of the faculty are best qualified to receive the award.

Carnegie Professor Develops New Process

A new process for the making of wrought iron, the invention of Professor Aston, head of the Metallurgy Department of Carnegie Tech, has recently been patented by the A. M. Byers Company of Pittsburgh. The Aston Process, as it is known, has been many years in preparation and was sponsored during that time by the present controllers. The Byers Company, it has been said, is to erect a ten-million dollar plant to exploit their newly acquired patent.

ENROLLMENT AT WISCONSIN ESTABLISHES NEW RECORD

University of Wisconsin reports a larger enrollment this year than in any former year in the history of the institution. The total number of students is 9,042, according to figures announced recently by Miss A. B. Kirch, university statistician. The college of letters and sciences has 6,681 students; the college of engineering has 962, and the college of agriculture has 705 students. The review further discloses that men outnumbered women 5,641 to 3,401.

Fraternity Contests Now Take Spotlight

(Continued from page 1)
last ten years no team has been able to defeat the Phi Pi Phis and as a result the champions have in their possession three trophies, each of which was earned by process of holding the inter-fraternity championship for three consecutive years. Besides this collection of trophies they have established a foothold in the fourth trophy which is up for this season's competition.

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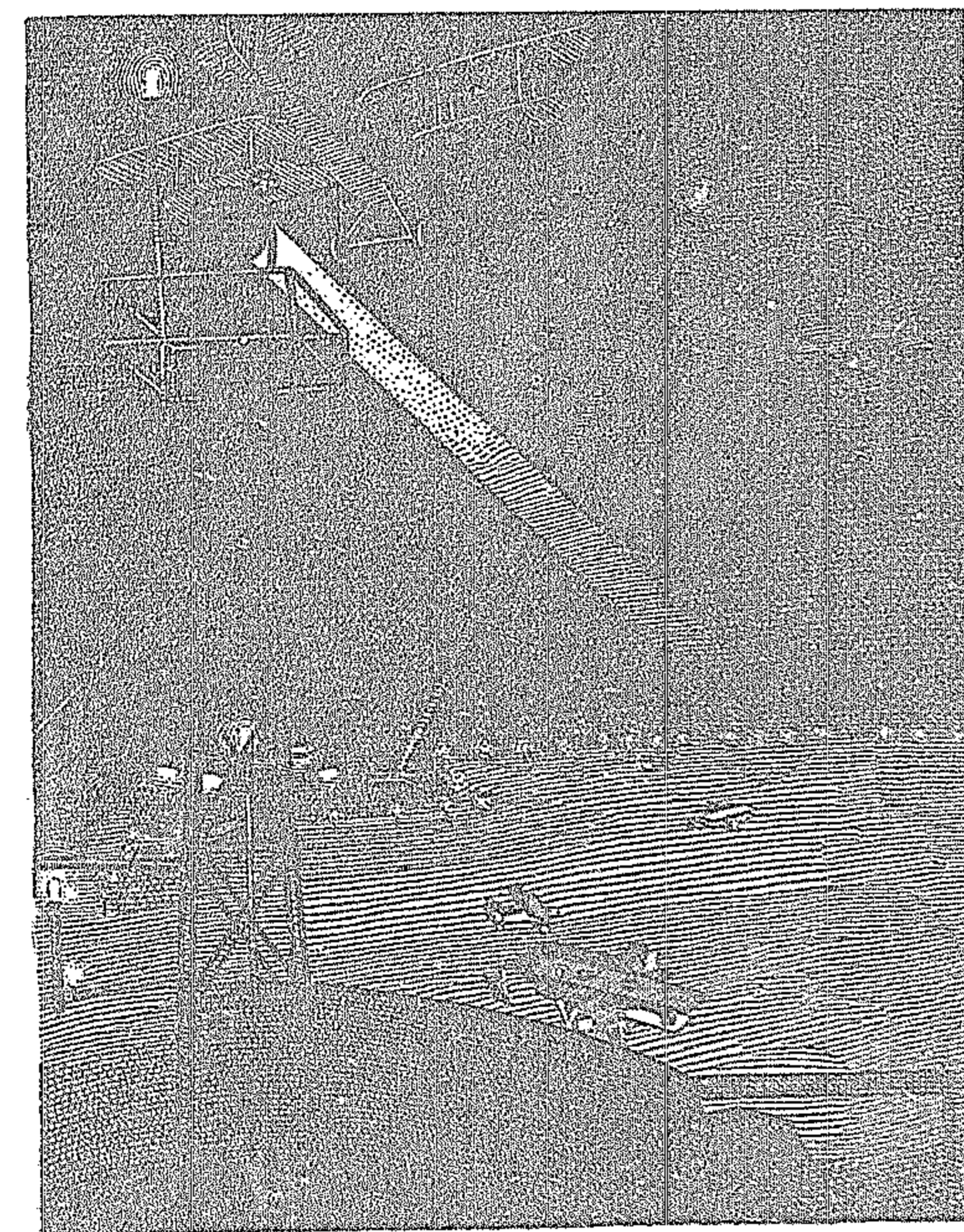
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SANTA HARD ON CAGEMEN; GIVES GAME TO NORMAL

Yet Team Gathered More Points Than They Expected

Misfortune again dogged the path of Coach Krafft's cagemen. On Thursday, Dec. 20, our engineers were administered the season's third setback when they dropped a 25-22 encounter to the Chicago Normal College at the Armory Gym.

Normal Trails in Second Half

It was a rather heartbraking tilt to sacrifice to the visitors for the Armourites were the proud possessors of a 19-12 lead when only eleven minutes of playing time remained. Yet despite their unflinching spirit and team work, slowly and steadily their margin over the school teachers decreased in dimensions until Armour was forced to relinquish the lead.

N. C. Minus A.I.T. Equals 3

The score in the fourth quarter was 19-12. The score in the fourth quarter was 19-12. The score in the fourth quarter was 19-12. The score in the fourth quarter was 19-12. The score in the fourth quarter was 19-12.

Armour Loses No Prestige in Defeat

Figuring on the basis of the pregame prophecies, Armour can at least claim a moral victory. Chicago Normal's veteran line-up consisting of last year's conquerors of the Northern Illinois League championship entered the fracas with a grim determination to way-lay the engineers by a lop sided score—and few doubted the school teachers' ability to succeed in fulfilling their desires.

Thus they not only prevented Chicago Normal from presenting them with an insignificant score, but they nearly conquered them instead. This being the case our cagemen have occasioned but little worry over the final results of that game. The main object in advancing, is to show improvement and the gold and black hardwood performers were no failures from that standpoint of view.

Farber, Bangert Star for Teachers

The bulk of Normal's attack was handled by Farber and Bangert. These aggressive basketballers featured in the fracas in floor work and scoring.

Bangert, reputed as being one of the foremost athletes in the college lived up to his reputation by contributing 3 points and aiding others to score. Besides utilizing his keen cage eye he was constantly in the thick of the mix-ups. Farber like Bangert assumed an important roll in the game. He led the team with four field goals.

Manz, Tell Menace Chicago Normal

There were but seven men in Armour's lineup, Simpson, Carlson, Rutkowski, Rossing, Ott, Manz, and Tell. Captain Johnny Manz and Bill Tell rivalled Farber and Bangert to the most noticeable extent. This duo of Armour cagemen led the team's scoring attack by ringing up some sixteen points. They were consistent with their attacks and cleverly executed many of the passing plays.

Simpson and Carlson, too, were by no means backward with their aggressiveness. Chicago Normal felt the sting of their onrush and always

BASKET COACH



WILLIAM C. KRAFFT

found them to be a pair of "buttskies." Simpson later suffered a minor injury and was replaced by Ott who carried on the good work.

As relief center, Rossing proved to be a good find to fill Tell's shoes when the latter gasped for breath on the sidelines. Rossing showed good form at the pivot position and served as a good reinforcer in the lineup. Rutkowski, paired up with Johnny Manz at the guard position, served as a good mate for the captain and promises to be as important in the next voyage. Lineup:

Armour	FG.	F.T.	P.
Simpson, rf.	0	1	3
Ott, rf.	0	0	1
Carlson, lg.	1	0	2
Tell, c.	3	1	3
Rossing, c.	1	0	1
Rutkowski, rg.	0	1	3
Manz, lg.	3	3	3
	8	6	16

Chicago Normal	FG.	F.T.	P.
Fralich, rf.	0	1	1
Bangert, rf.	1	2	1
Farber, lf.	4	2	1
Kupicenet, c.	1	0	4
Singer, rg.	2	1	2
Lind, lg.	0	0	0
O'Neil, lg.	0	3	3
	8	9	12

Score: Armour 22, Chicago Normal 25.

ILLINI STUDENTS PROMOTE BETTER SPORTSMANSHIP

Whether or not the booing and hissing carried on by certain un-sportsmanlike Illini students, during Big Ten basketball games should continue, was decided by a mass meeting of the students. The objective of this gathering was to arrive at a code whereby better sportsmanship might be shown toward officials and their opponents.

Father (exasperated): William, just what is the height of your ambition?

Willie: Since it interests you, Dad, I think she's a little over five feet.

—A. J.

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Jennings Ranks Fifth In City's Singles List, Is Second In Doubles

George Jennings, the w. k. Armour Tech net star, has been listed fifth in the Chicago City Tennis Ranking for Singles play, according to a rating published by the Ranking Committee of the Chicago Tennis Association.

Sixth Time For Lott

George Lott tops the list for the sixth successive year. Although Lott did not compete in the city and state outdoor tournaments, he returned to win easily in the indoor championships a short time ago, and so established his supremacy among local players.

It will be recalled that Jennings lost to Lott in three hard fought sets in the finals of the city indoor tournaments.

In the men's Doubles, Jennings is named second along with Ralph Rice, while J. Harris and Ellis Klingeman hold the first ranking.

The order of ranking in the singles is as follows:

- (1) George Lott, Jr.
- (2) Emmet Pare
- (3) Leroy Weir
- (4) George O'Connell
- (5) George Jennings, Jr.
- (6) Charles Lejeck
- (7) Elliss Klingeman
- (8) Jack Harris
- (9) Leo Lajack
- (10) A. Kaiser

Who Said the Scotch Aren't Liberal? Phizz: Did you hear about the big party that Walt Healy, Izzie Klein, and Clem MacDonald threw the other night?

Ick: No, what happened? Phizz: Oh, it seems each one had to bring something to the party, so Healy brought the wine, and Klein brought the glasses.

Ick: Yes, and what did Mac bring? Phizz: Oh, he brought his brother!

Armour Pugs Begin & Meet Schedule Monday

On January 14, the Armour pugilists will open their schedule of eight meets in a contest with the West Side Prep School to be held in the home gym. Extensive preparations have been made by the candidates for the team in view of competing in the first meet, and according to Coach Garbett and Manager Briggs the keen competition makes the choice difficult as to those who should represent the engineers in the initial fray.

The men who have shown up the best to date are: Capt. Larkin, Buehling, Jammer, Whitfield, Briggs, Bryant, Nelson, Hallen, Goodheart, Landstrom, and Svardloff.

INTERFRATERNITY BASKETBALL SCHEDULE

Games Start January 14, 5:00 P. M.

- (1) Rho Delta Rho
- (2) Phi Kappa Sigma
- (3) Beta Psi
- (4) Kappa Delta Tau
- (5) Theta Xi
- (6) Delta Tau Delta
- (7) Phi Pi Phi
- (8) Sigma Alpha Mu
- (9) Triangle

Groups (1) and (4) play Monday, Jan. 14 at 5:00 P. M.

Groups (2) and (6) play Tuesday, Jan. 15 at 5:00 P. M.

Winners of groups (1) and (4) play (2) and (5) respectively, Jan. 21.

Semi-finalists in each bracket play Jan. 23.

Final game will be played on Jan. 24.

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