



## JUNIOR INFORMAL FRIDAY NIGHT

### Armour Five Plays N. U. Tonight

#### TECH BASKETBALL TEAM TO PLAY MCKINLOCK CAMPUS FOR SECOND TIME IN SEASON

Hope A. I. T. Squad Will Repeat First Victory  
At 8th Regiment Armory Tonight

GAME BEGINS AT 4:00 P. M.

Tech basketball team will play Northwestern of McKinlock tonight at the Armour floor at the 8th Regiment Armory. Located at 35th and Giles Ave. The game will begin promptly at 4:00 P. M.

Armour has chalked up a victory over Northwestern once this season. The score of this hair raiser was 24-22. In this game Tech amassed an 11 point lead when both guards were removed on fouls. Northwestern scored 10 points to come within one point of a tying score when Rowley's basket forged the way to a Tech victory.

Coach Krafft will start the same combination that he has used in the last few games.

#### Probable Lineup

Robin, r.f.  
Simpson, l.f.  
Rossing, c.  
Miran, g.  
Rutkowski, g.  
Rowley, g.

With victories over Chicago Normal, Wheaton and Northwestern, Tech basketballers have shown their ability in high class competition. A 40-29 loss at the hands of Augustana has not dampened the spirit of the black and gold squad. Constant improvement has cheered Coach Krafft.

Several casualties have been noticed last week. Robin suffered an injured shoulder in the practice sessions while Tell is still recuperating from a swollen optic. These men will probably be ready for battle on Tuesday.

Thursday Armour will meet Chicago Normal at their gymnasium at 68th and Normal Blvd. Tech has registered a victory over Normal once this year. Two victories from last year swell the total to three straight.

#### Australian Visits Armour on Tour

Armour Institute had a most interesting visitor last Tuesday in the person of Professor L. E. H. Reichstein, Head of the Engineering Department, Gordon Institute of Technology, Geelong, Australia. Professor Reichstein is on a tour inspecting the engineering colleges in the United States, Canada, and Europe. He entered Canada by way of Vancouver, stopped at Winnipeg and at the University of Minnesota, and then came to Armour.

Dean Penn conducted Professor Reichstein through the school. He displayed particular interest in the Mechanical and Electrical Engineering Departments.

From Armour Professor Reichstein went to the University of Illinois and from there intended to go through the eastern states, stopping at several schools, and then going on to Europe.

Gordon Institute is largely a general technical school, its engineering department having only about one hundred students.

Walter Healy, C. E., '29 visited school Thursday. He is now engaged in building construction for the Stoltz Construction Company of Chicago.

#### New Officers for the Campus Club

The Campus Club held the election of officers last Monday for the coming semester.

The following is a list of those winning the election:

President, J. H. Strandberg, '31; Vice-President, Jack Cavanaugh, '32; Secretary-Treasurer, W. S. Guyot, '31.

The Executive Secretary will be appointed by Mr. Allison and Professor Mangold.

#### FLASK AND BEAKER GIVES BANQUET AT UNION LEAGUE CLUB

Raymond, Deans,  
Faculty Members,  
Guests at Dinner

#### BOYNTON TOASTMASTER

President Raymond, Deans Penn and Palmer and seven members of the faculty were the guests of Flask and Beaker at an initiation banquet given last Wednesday at the Union League Club. The faculty members present were the Professors McCormack, Freud, Tibbals, Gill, Carpenter, Schommer, and Ullock.

After the dinner, Arthur Martin, president of Phi Lambda Upsilon, and Charles Morris, president of Flask and Beaker introduced the initiates of their respective societies. Professor McCormack, head of the department of Chemical Engineering, then presented Jack Cavanaugh, '32 with a certificate of membership in the American Chemical Society. This award being given annually by Flask and Beaker to the member of the Freshman chemical class having the highest scholastic average.

Morris then introduced E. Percy Boynton as toastmaster, who, in turn, presented Dr. Raymond, who gave a resume on the history of Armour Institute. Short talks by the Deans and the members of the faculty followed.

John Schommer, after telling several typical Schommerian jokes, plunged headlong into the task of giving his views on engineering education. "Either because the value of the engineer is not appreciated," he said.

#### Mr. E. J. Underwood Addresses F. P. E. S.

The regular bi-weekly meeting of the F. P. E. S. was held Friday morning at 9:30 in room H, of main building. Mr. E. J. Underwood of the Continental Insurance Co. was the speaker for the hour.

Mr. Underwood is the special Agent for the State of Illinois, and his work and duties were the subjects of his talk.

The meeting was well attended, it being necessary to bring in several extra chairs.

#### MUSICAL TALENT BROUGHT OUT IN WINTER CONCERT

Leaders in Scholarship  
Get Handbook  
Awards

#### ASTE LEADS ORCHESTRA

The annual winter concert was enthusiastically received by the whole student body at the assembly held Thursday morning, January 16, at 10:00 o'clock in Assembly Hall. The demand for encores, and long periods of applauding forced the program to be continued well into the lunch hour.

Before the concert, Professor Schommer spoke to the students on the lack of support given the basketball team. The attendance has dropped from two or three hundred in the past, to nothing at present. He said that the team needed the school spirit as exemplified by cheering, in order to do its best.

#### Raymond Speaks

Following Professor Schommer, President Raymond spoke on the Tau Beta Pi and Pi Tau Sigma honorary fraternities. Jack Cavanaugh, '32, received a "Handbook on Chemistry and Physics" from the former fraternity as a reward for having the highest scholarship record of any freshman last year. Harold Davis, '32, was rewarded with a copy to "Kent's Handbook" for having the highest average among the freshman mechanicals.

Professor Leigh gave a brief talk on the musical organizations at Armour. He expressed a hope that the cultural side of the school as shown by the annual concert should be further developed.

The concert was opened by the orchestra, under the direction of Frank Aste, '30. They presented the "Aida March" and the "Melody in F," to a very receptive audience. The Glee Club, led and accompanied by Doctor Daniel Protheroe, followed with three selections, "Prayer of Thanksgiving," "Eldorado," composed by Doctor Protheroe himself, and "Winter Song."

#### Solos Presented

The outstanding surprise of the concert was the discovery of the three talented soloists who presented special numbers. The work of Emmett Higgins, George Burhop, Frank LeGrady, Jr., and the Novelties Quintet, was unusually excellent, and as such was rewarded by much applause from the students.

(Continued on page 4)

#### CALENDAR

Tuesday, Jan. 21

Armour vs. Northwestern of McKinlock at 8th Regiment Armory, 4:00 P. M.  
Chemical and F. P. E. Inspection Trip.

Thursday, Jan. 23

Evening School Registration.  
Basketball, Armour vs. Chi. Normal at 68th and Normal Blvd.

F. P. E. Inspection Trip to Whiting, Ill.  
A. I. E. E. Meeting, Physical Lec. Room, 10:30.

Friday, Jan. 24

Evening School Registration.  
Junior Dance, Blackstone Hotel.  
Finals Interfraternity Basketball Tournament.  
A. C. S. Meeting at City Club of Chicago.

Saturday, Jan. 25

Boxing, Armour vs. Lincoln-Belmont "Y".

#### SOCIAL CHAIRMAN



BERLYN McLAUGHLIN

#### Former Student Killed in Plane

It is with deep regret, that Armour learned of the death of Ensign John D. Clark, a former student, on Thursday, January 7. He was killed, when the Loening 2-place amphibian, powered with a 450 H. P. engine, in which he was flying, fell 1,500 feet into San Diego Bay and was completely demolished.

#### On Check Flight

Ensign Clark was accompanying Lieutenant Eugene F. Burkett, U. S. N. on a trip to Otay Mesa to be checked on ability to make carrier landings before the cruise of the fleet. The team was composed of the amphibian flown by Lieutenant Burkett and Ensign Clark and another sea-going plane piloted by Ensign Nelson.

When Lieutenant Burkett and Ensign Clark failed to appear at the appointed time in Otay Mesa, Ensign Nelson flew back over the San Diego Bay region in search of them. He located the other plane flying in unnatural circles over San Diego Bay. Due to the fact that both planes were to report immediately after carrying out their instructions, the antics of the fatal plane seemed to indicate that it was in distress. After a long, glide that ended in a spiral, the plane fell into a spin from which it never recovered.

#### Plane Faulty

Lieutenant Burkett had just completed the third Alaskan Aerial Survey and knew Loening amphibians thoroughly. Overconfidence of the pilot in his ability to bring the plane out of the spin is probably the reason for their not jumping. The accident is credited by officials to the failure of the plane.

(Continued on page 4)

#### Bootleggers Take Woodshop Shellac

Ever since the meeting of the Wednesday Woodshop class two weeks ago, a bottle of white shellac has been missing from the shelf that it has occupied since the beginning of the semester. Mr. Peterson, instructor in woodworking, has been investigating its disappearance. He says the shellac was diluted with good "old time" grain alcohol. However, it isn't so much the shellac that he is so anxious to have returned as it is the bottle, for the students have to use an old glass, which is very inconvenient. Hereafter Mr. Peterson intends to use wood alcohol for the dilution of the shellac, thus insuring the safety of its container.

#### TWO HUNDRED FIFTY COUPLES EXPECTED TO ATTEND JUNIOR DANCE AT BLACKSTONE HOTEL

Patrons and Patronesses to Include Dr. and Mrs. Raymond, Dean and Mrs. Penn, and Dean and Mrs. Palmer

#### FRESHMEN ELIGIBLE TO ATTEND

With but four days left before the Junior Dance, January 24th, the Juniors have unleashed a late ticket selling drive that promises to fill the dance floor to its limit. There are still some bids to be had but the full quota of 250 couples will be in attendance when Harold Leonard's Opera Club orchestra syncopates the first number in the Crystal Ballroom of the Blackstone Hotel. A special attempt has been

made to get the Freshmen to attend, following the custom that a successful class dance should be attended by the entire school. It was found that many Freshmen mistakenly believed that they were not eligible to attend the dances given by the other classes.

The Crystal Ballroom of the Blackstone offers splendid surroundings and the usual enthusiasm is expected. The patrons and patronesses are President and Mrs. Howard M. Raymond, Dean and Mrs. Claude I. Palmer, Dean and Mrs. John C. Penn, Professor and Mrs. Henry T. Heald, and Mr. and Mrs. Grover F. Sexton.

Berlyn (Mac) McLaughlin, '31, Junior Social Chairman, announces that tickets may be secured from the Social Committee of W. Miran, R. Timmermans, F. James, and C. Robin. He further states that in addition tickets may be secured from the following:

K. Langhammer, J. Bruni, F. S. Austin, A. Reglein, O. R. Steinert, I. Berger, D. Iverson, T. Woods, F. B. Attwood, L. Billings and E. Westenberg.

A member of the social committee will be at the desk in the lobby of the main building all day Friday to check up on the bids. All men selling bids should report there sometime during the day.

#### Seniors Sole Authors of Armour Engineer

The latest issue of the *Armour Engineer* has as its cover a very attractive picture, an artist's conception of one of the new Navy dirigibles flying over the national capitol at Washington. The dirigible pictured is the ZRS-4 which, when completed, will rival the Germans' "Graf Zeppelin."

The details of the new "ships of the air" are given in an interesting article on the ZRS-4 and its sister ship the ZRS-5 by F. H. Bigelow '30. The other articles that comprise this issue are also written by students and are as follows:—

"The Fire Hazard of Film" by David T. Smith '30, "The Roasting of Metallurgical Ores" by Vernon A. Sturm '30, "Remote Control by Radio" by Walter Filmer '30, and "The Electrodeposition of Rubber" by Julius Lichtenstein '30.

Not only were all the articles in this issue written by students but they were all written by members of the Senior Class.

#### Construction Class Sees Terra Cotta Made

The Sophomore General Construction class consisting of about 40 students under the direction of Assistant Professor Wilmanns held an inspection trip to the Northwestern Terra Cotta Company last Wednesday afternoon. The students were shown the complete cycle of the manufacture of Terra Cotta, from the drafting room to the finished products. Some of the most interesting features were the spraying of the color on the blocks by pressure sprays and also the large ovens, over 400 feet long which take from one to two days to cool.

#### LAST YEAR'S CYCLE GETS HIGH RATING FROM PRESS CLUB

Numerous Points Count  
in Grading School  
Publications

#### HINDMAN WAS EDITOR

"All-American Honor Rating — Superior" is the rating given last year's Cycle, by the National Scholastic Press Association, the association of publications to which the Cycle belongs, in a notice received by P. E. Heath, present Editor-in-Chief. Each year, college, university, and high school annuals are submitted to this association for grading on a basis of quality.

The rating given the edition of the Cycle of 1929, under the editorship of Boyden W. Hindman, was as high as any given. To make this rating the year book scored a total of 925 out of a possible 1000 points.

The different things taken into consideration in grading the annuals were: plan of book and its theme, administration and instruction, senior section and classes, activities, organizations, special sections, editing and make-up, mechanical considerations, and financial status.

According to Heath, this year's edition of the Cycle will be bigger and better than ever, and will be distributed on Circus day, in the last week of May. The staff is now busily engaged in preparing the material for the publication.

#### Professor Carpenter Will Teach Geology

Due to the crowded condition of the Civil Engineering Department, Professor Carpenter, assistant professor of metallurgy, has taken over the tutelage of Geology. There is no doubt that Professor Carpenter is a very capable man for this position as he has had many years experience as a Geologist and Mining Engineer; he has also taken part in several Geological Expeditions. This course has, in the past, been conducted by Dean Penn.

#### NIGHT SCHOOL

Registration for the second semester of the Evening School is scheduled for January 23 and 24. Classes will not begin until January 27.



# Armour Tech News

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Published Weekly During the College Year

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## EDITORIAL (?)

When "ye ed" is sitting at his desk, trying to think of something brilliant and profound, at the same time applicable to school life, the thoughts just won't thump. If the editorial column showed the thoughts of the editor in chronological order, instead of his thoughts after they are worked over, corrected, and revised, why it might read something like this:

Chicago sure has one (deleted) of a climate; snow, wind, more snow, more wind, and so on till it looks like Alaska. Wish I was back in Kentucky where it is reasonably warm. Those new senior jackets are nice and warm though, for a jacket. Surprisingly so. If they had a pocket for a slide rule, they would be better. Senior jacket and a pair of corduroys, that's what the well dressed (?) senior will wear. Speaking of dress, some of the Seniors have been wearing derbies—nice looking but cold on the ears.

Funny so many people took exception to Sachs' letter to the Letter Box last week. Thought everyone understood the Letter Box was a place where those students not connected with the News could air their views and grievances. Such expressions should be taken for what they are worth. Reckon we'll have to run a head on the box saying "The views expressed in this column are those of the one whose name is signed at the bottom. The views of this paper will always be expressed on page 2, column 1."

(Indicating lapse of time while looking out window at snow.)

The basketball team had a cold time on their trip out to Augustana. That N. U.-Armour game tonight ought to be a beamer. We beat them last time 24-22. Hope there is a big crowd. It is an absolute disgrace to the school the way the team is supported. A mere handful of rooters at the Armory gym at a game, the same ten or fifteen back the team at each game. There ought to be eight hundred and fifteen instead. If we had a bum team it would be different, but we have a peach of a team, one of the best college teams in the middle west. Look at the win and loss record. Our team is the kind that is on its toes fighting every minute. For real thrills and speed, our Armour games are just about as good as they make them. It is a shame the fellows at school won't come to the games. They are paying for them, why don't they attend? What's the matter? It is too much to expect the team to keep up their fine spirit and playing if the school doesn't back them. A disheartened team is soon no team at all. We've got to get out and at least attend a few games.

## :: "THE SLIPSTICK" ::

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

### Toot Toot

There was a young lady named Sue  
Who wanted to catch the 2:02;  
Said the trainman, don't hurry  
Or flurry or worry;  
It's a minute or 2222.

—Phil J.

Not much excitement last week, except that Abe, Jr. Elec. lost his struggling mustache to some of his classmates. These future barbers have sent the warning to two or more of their number whose upper lip adornments have passed the struggling stage, and are already quite fuzzy.

### Political Science Report # 45.67

#### THE SIEGE OF ROMEO

Rome was captured in 1623 $\frac{3}{4}$  by Juliet, the commander of the Lithauscovite forces. Romeo was, as you will remember, built on seven hells by the makers of Lux, guaranteed not to injure the finest fabrics. Juliet then went about vamping Plato, who had just completed his ten weeks' course in violin playing in five weeks. As he was not satisfied with the course he sent to the corporation to return the stamps which he had sent as first payment on the fiddle. But the company then asked if he would be interested in lessons on the soprano sousaphone, to which he replied that that was the last straw and that he would send his dogs. Before he had time to remove his blue oxfords, the representative fled. And that, dear children, is how the Revolution ended.

—The Bongineer.

#### SOUNDS SCOTCH

If two could live as cheaply as one, some men would become bigamists in order to live for nothing.

First He: "See that girl? Her face is her fortune."  
Second He: "Yeah, and it runs into a nice figure."

A half-hearted kick is worse than none. Throw your whole sole into it.

"Sir! I'll have you know there's blue blood in my veins."  
"I hope you are taking something for it."

#### Wired Wireless

A man spending the winter in Florida telegraphed his wife for his "shorts" in this way:  
S. O. S. B. V. D. P. D. Q.

—A. L.

The girl who expects to be married only once has no ambition.

Then there was the Scotchman who bought a car because the clutch was thrown in.

#### About This Time of The Year, Too

A certain student asked the Prof. what was meant by the "pursuit of knowledge." He said it referred to the blokes trying to catch up with the rest of the class.

—Phil J.

Nowadays, whatever is not worth saying is taken to some popular song writer and set to music.

—R. S. F.

Due to the fact that we can't spell "psitocosis?" (parrot fever) there will be no remarks about it.

Lady: I don't want any trout. I don't like the looks of them.

Butcher: "If it's looks you want, lady, why don't you try goldfish?"

#### Smart Boys That's Why They Are Seniors

We try to make it a practice of refraining from using the student's name; however, in order that due credit may be given to such rare wit, we will make an exception.

F. Zimmerman, after having come in out of the cold, remarked about his glasses being steamed. Right away Mr. Baker suggests windshield wipers (smart boy). Mr. Stier, rifle team manager (adv.) remarks that there is plenty of vacuum there to run one. Filmer gets complimentary by saying that Zim's personal magnetism could run an electric one. Smart boys these electricals; we give them credit. Probably they will need lots of it.

We are aptly informed by Joe that soup is nothing but hash loosened up a bit.

#### WHAT SHALL IT BE CHEMISTERS?

She: "If you were my husband, I'd give you poison."  
He: "If you were my wife, I'd take it."

—Phil J.

"What gives a funnier feeling than riding on a flat tire with a skid chain on it?"

She was so dumb that she wonders how electric light poles grew in a straight line.

—Chester.

We notice that the Packard and the Studebaker people are still using Federal Street for a proving ground. It's our opinion that if they can get a car to run smooth there, it'll run like a charm anywhere.

Being of optimistic nature we shall not mention the calamities of February 3rd, 4th and 5th.



## Asst. Professor Harry Howe Bentley

(A Biographical Sketch)

BY HARRY P. RICHTER, '32

Harry Howe Bentley, Assistant Professor of Architectural Design, was born in 1883, in Oskaloosa, Iowa. He graduated from high school in 1901, and then attended Penn College for one year. He received his B. S. degree in architecture in 1908 from the Massachusetts Institute of Technology. During the following two years, he worked in the offices of Howard Shaw, Chicago, and Samuel W. Mead, Boston, Massachusetts.

In 1911, Professor Bentley studied and travelled in Europe. He took a bicycle trip through Scotland, England, Holland, Belgium and France, spending the Winter in Italy.

From 1912 to 1923, he received practical experience in the offices of Schmidt, Garden and Martin; Coolidge and Hodgdon; and Edgar

Martin, State Architect.

In 1923 and 1924, he traveled and studied extensively throughout Europe. He cycled two months around Oxford and in Cotswolds. He was also about a year in France, staying in Paris, Provence, and Savoy. Since 1924, he has practiced architecture independently in Chicago and specializes in residential work.

In September, 1925, Professor Bentley became Assistant Professor of Architectural Design on the Armour faculty. He is now the Sophomore critic of Architectural Design.

Professor Bentley's water color sketches have been exhibited in the Chicago Architectural Exhibition, and at the New York Water Color Club show. Last Spring he won the first prize of one thousand dollars for a house design in the Chicago Builders Exposition competition. While with Schmidt, Garden and Martin, he created the design for the Centennial Memorial Building in the State Capitol Group at Springfield, Illinois.

He is a member of the Chicago City Club, Cliff Dwellers Club, and the American Institute of Architects. He was secretary of the Chicago Chapter of the American Institute of Architects in 1927. His hobbies are chess, bridge and golf.

## D. S. Dickey, Freshman, Made Master Builder

Diamond S. Dickey, Freshman Mechanical Engineering student was installed last Thursday evening as master builder of the Avalon Park Chapter, Order of Builders, No. 104. The installation was held at the Avalon Park community hall, 81st street and Dante avenue with dancing, cards, and refreshments following.

"The Oosterbann, Mitterwainers and Ukelbergs, whose names harried

## Davies Develops Valuable Formula

Lynn E. Davies, Assistant Professor of Experimental Engineering is leaving Chicago January 23 to attend a meeting of the American Society of Heating and Ventilating Engineers to be held at the Benjamin Franklin Hotel at Philadelphia, on Wednesday, January 29. Professor Davies will present his discoveries concerning ventilation under the title, "The Measurement of the Flow of Air Through Registers and Grilles."

All of Professor Davies work was done at Armour Institute during the past year and the results obtained were of such accuracy as to be adopted by the Chicago Ventilating Contractors' Employment Association as a standard. The adoption of Professor Davies formula has ironed out the controversy with the Board of Health, as it permits an accurate test of the ventilators.

The work, first started personally by Professor Davies for the A. S. H. V. E., was done at Armour Institute laboratories under the Institute's supervision. Professor Davies used the anemometer as always, but by careful research found the formula necessary for the measurement of air which has come to be called the Davies formula.

In connection with the meeting in Philadelphia, will also be an exhibit at which Professor Davies will display working models of his apparatus as well as pictures of Armour Institute and its laboratories. Professor Davies will probably return home on the first or second of February.

headline writers and radio announcers, have gone, but the Big Ten has plenty of unique names to replace them.

# The ARMOUR TECH NEWS

## Contains

First: Live accounts of all Tech athletics.

Second: All announcements of Deans' and President's offices.

Third: Complete report of social events, assemblies, organizations and other extra curricula activities.

Fourth: Constructive editorials, flashing humor section, reviews, biographies and other special features.

Fifth: Current alumni news and notes.

Subscribe Now  
for  
Next Semester

(See page four for subscription blank)



## Professors' Salary Raised at M.I.T. by Increasing Tuition

From the Massachusetts Institute of Technology newspaper, the "Tech," we find that the tuition there has been raised from \$400 dollars to \$500 a year to take effect in the fall of 1931. This is the second time within three years that the tuition rate has been increased at that school.

"This action, which has been under discussion for some time, was taken for the purpose of helping to meet the increased costs of education. The annual operating expenses at the Institute, which in common with other engineering colleges, must maintain expensive technical equipment for instruction, last year amounted to more than \$850 for each student, compared with the tuition of \$400.

"In 1881 when Technology was but 26 years old the tuition fee was \$200. . . . In 1906 it was increased to \$250 a year, and in 1919 to \$300 a year. In 1927 it was increased to \$400 a year."

The increased funds available will be used for the necessary expenses and also for providing a higher salary schedule for the instructing staff. It was stated that the Institute loses a great many men because of its inability to pay them attractive salaries.

A similar situation prevails at Armour, according to President Raymond and the Deans. The ratio is about the same as far as tuition and cost per student per year is concerned. The school spends \$530 on each student each year, while the tuition remains at \$250 a year. At Armour Institute, the tuition has risen steadily. From 1894 to 1896 the tuition was \$60, the expenses of the school being borne almost entirely by the Armour family. In 1896 the tuition was raised to \$75, in 1902 to \$120 dollars, in 1909 to \$125, in 1913 to \$150, in 1915 to \$175 dollars, in 1919 to \$180, in 1920 to \$200, and in 1925 to the present rate of \$250 a year.

President Samuel W. Stratton, of the Mass. Inst. of Tech., in commenting on the increased rate of tuition stated that "The men we have on the Faculty have stayed with us through loyalty more than anything else, considering that they could make much more outside, and the Corporation feels that they should get a salary commensurate with that paid other workers in the same field."

## Design Contest

Closes Jan. 27

The Collaborative Competition sponsored by the Association of the Alumni of the American Academy in Rome closes on January 27th.

This year, the competition consists of the design of the "Interior of a Sanctuary" for the body of the late President Woodrow Wilson which is now temporarily buried in Washington. "A group of his friends desire to erect for him and his family a final resting place that shall typify what this man represented to them—a great sociologist and idealist who labored and devoted his life to the furtherance of international peace and tolerance."

The competition is open to any group of students in schools of art or ateliers, or to anyone employed in offices or studios. Each team consists of an architect, an artist, and a sculptor. This year Armour is represented by M. R. Dobberman and R. R. Falconer, senior architects. The other members of the two teams consist of students from the Art Institute.

A first place will be awarded, but there will be no monetary prize. Last year H. Turk, '29, and A. Crizovsky, '29, received a First and Second Mention respectively. The problem then consisted of designing and making a model of the "Interior of a Salon on the Largest Ship Afloat." The contest was won by Euston of Yale, a finalist in the 21st Paris Prize Competition.

The registrar of the University of Washington reports that 83 per cent of the men attending that institution are working their way through college or at least paying part of their own expenses.

## PROF. EARL REED HEADS COMMITTEE ON WAR MEMORIAL

### Designs To Be Exhibited In Art Galleries Elsewhere

#### SHOW RISING INTEREST

The War Memorial Designs which have been exhibited at the Art Institute and Burnham Library for the past month will now be taken on tour to art galleries and architectural leagues in New York, Indianapolis, St. Louis and other cities.

Professor Earl H. Reed, Jr., technical adviser to the war memorial committee, states that "not in years has an architectural competition brought out so much notable and noble effort." The designs show a heartening tendency to express today rather than antiquity.

The estimates of the cost of putting into granite and marble of the prize winning design of the firm of Gugler and Bailey of New York City range from two million to five million dollars. The raising of the funds will be by veterans of the world war and by the community as a whole.

The most notable of the 114 designs submitted will be ultimately issued in book form "because" as the eminent architect John Mead Howells put it, "they are a vital contribution to American architecture."

The island on which the memorial will be erected will lie four hundred feet from the shore line of Grant Park and directly opposite the Buckingham fountain.

The island will be connected to Grant Park by means of causeways which may for convenience be described as extensions of Van Buren and Harrison streets. They will lead to the side of the memorial facing the east.

The columns or piers of the Chicago memorial will be 96 feet high. The total height of the structure from the water level will be the equivalent of an 18-story office building. The piers will be surrounded by two rows of trees.

## FLASK AND BEAKER GIVES BANQUET AT UNION LEAGUE CLUB

(Continued from page 1)

ciated, or the engineers are not well enough organized," he said, "the engineering profession is one of the poorest paying professions today. Therefore, use engineering only as a stepping stone to greater things. After graduation, don't stop studying. Take up such courses as public speaking and political economy, and broaden your viewpoint and education if you want to get into the big money."

Dr. Raymond gave several instances of alumni and former students who had broadened their viewpoint, and had made good by doing so.

Professor McCormack then arose to answer some of Schommer's assertions. He said, "If the desire for money is what I have created in my students by my teaching, then I have failed in my purpose. If you men get jobs in which you are interested, make a fair salary, and are happy, I will term you successful. Success is not to be measured by the salary an individual can draw."

The toastmaster then announced that a card room was available and the most pretentious banquet ever given by the chemicals was a memory.

A male beauty contest will feature the University of Missouri campus in the near future, announces the "Missouri Student." Those in charge are not asking for entrants, but have appointed a secret committee of ten to hunt for the best looking men so that the modest ones will be given a chance for fame.

Oxford and Cambridge, both of which have university air squadrons, are planning a series of annual dual aeronautical contests.

## Prof. Richardson Verifies Theory by Experiments

At a meeting of the American Physical Society which was in session with the American Association for the Advancement of Science and Associated Societies, held in Des Moines, Iowa on December 31, Professor D. E. Richardson, instructor in the Electrical Engineering Department, gave a paper on "Resistance of an electrolytic conductor at various frequencies." The paper was a summary of Professor Richardson's thesis on "Experimental Verification of the Theoretical Skin-effect Equation, for an Electrolytic Conductor" which he prepared for his M. S. degree at the University of Chicago.

#### Resistance Varies With Frequency

The problem presented in the paper was that the resistance of a conductor, as defined by the ratio of electrical energy converted into heat and the square of the current, is a function of the frequency of the current because of the non-uniform current density throughout the cross-section of the conductor. Classical electrical theory offered an equation for this skin effect and this has been verified for metallic conductors for frequencies up to one megacycle. Professor Richardson,

## Will Inspect Terra Cotta Works Today

The Fire Protects and the Chemicals of the Junior Class will make an inspection trip through the Northwestern Terra Cotta Company this afternoon. Professor Bentley will be in charge.

C. M. Nelson, C. E., '26 returned to school Thursday for a short visit with the Civil Department. Nelson is now on the editorial staff of the Gillette Publishing Company, publishers of "Engineering and Contracting" and several other engineering periodicals.

Constantinople and Angora, Turkey, have just been connected by a telephone line.

son, using a calorimetric method, verified the equation for a particular case of electrolytic conduction (30% solution of H<sub>2</sub>SO<sub>4</sub> for frequencies up to eight megacycles (37 meters). The conclusion drawn up by Prof. Richardson was that the resistivity of this electrolytic conductor is independent of the frequency up to eight megacycles, since this assumption was made in the derivation of the equation. Measurements of the currents were made by comparing photometrically the intensities of two filaments, one carrying the high frequency currents, the other direct current.

## FRATERNITY NOTES

### BETA PSI

The annual Beta Psi Christmas dance held December 21st proved a huge success despite the bad weather. Several alumni were at the dance, the habit being too great to be away. Thursday January 16th following the meeting a smoker was held for the Alumni of the chapter who turned out in large numbers. Wm. Lange, E.E., who suffered an infected leg causing him to drop school spent Wednesday at the house.

### TRIANGLE

In starting off the new year's social activities, Triangle held a Radio Dance at the Chapter house on Friday January 17th.

The latest rage at the house is that of playing Pingpong. From sunrise to sunrise someone will be ping and ponging; really 'tis quite some game.

### THETA XI

Theta Xi announces the election of officers for next semester. The new officers are:

G. A. De Bolt, '31, President.  
W. A. Schirmer, '31, Secretary.  
W. E. Bauman, '32, Treasurer.  
P. Abramson, '32, Steward.  
K. D. Hansen, '32, House Mgr.

## A. I. Ch. E. Hear Talk on Heat Transfer

Last Tuesday, January 14th, the Armour Branch of the American Institute of Chemical Engineers heard a very interesting talk on "Heat Transfer" by Mr. E. W. Thiele of the Standard Oil Company, Whiting, Indiana. The scheduled speaker Mr. Walter G. Whitman, was unable to appear, so he sent his assistant, Mr. Thiele. After the lecture, the students brought up problems which they had encountered in their investigations on the subject and solutions were offered by Mr. Thiele. The meeting was characterized by its good attendance.

Pi Tau Sigma, honorary mechanical fraternity, held an election of officers Monday, Jan. 13 with the following results, H. Faulstich, Pres.; R. Johnston, Vice-Pres.; C. Voigtsch, Treas.; C. Link, Corr. Secty.; F. Strasseling, Rec. Secty.

### RHO DELTA RHO

Rho Delta Rho announces a sleighing party to be held at Palos Park, January 25.

### SIGMA KAPPA DELTA

Sigma Kappa Delta announces the pledging of Frank O'Connor, M.E., '31.

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# AUGUSTANA TAKES ARMOUR FOR A 40-29 SETBACK IN GAME AT ROCK ISLAND

Simpson and Jones High Point Men Displaying Real Cagework

## ROBIN INJURES SHOULDER

Augustana, conceded to be one of the two best cage teams in the Little Nineteen, defeated the traveling Tech squad by a 40-29 score Thursday night at Rock Island. A crowd of about five hundred watched a game in which the center jump was eliminated. After a point is scored the team scored upon puts the ball in play under its opponent's basket. This type of game makes for better basketball and will probably be adopted in a few years.

The first half started slowly with neither team taking any chances. After holding a 4-0 lead, Armour saw its five six-foot opponents draw up to a 10-10 tie with 15 minutes of the first half gone. In the next 5 minutes Augustana established its lead when two earned and two lucky shots went thru to give the home team a 22-11 edge at half time.

Armour's first substitution came at the start of the second half when Rowley replaced Robin who had been playing with one arm almost useless. Miran went to forward in Robin's place.

The second half turned out to be a nip and tuck battle with each team scoring 18 points. Armour began to shoot at long range. Three baskets by Rutkowski from mid-floor and two baskets each by Rossing and Simpson kept Armour in the running. Ott replaced Miran and immediately sank a pretty side shot.

Armour's long shots were matched by the shooting of Jones who dropped in four distant buckets. With about three minutes to go Augustana still held its 11 point lead, so both teams substituted freely. Augustana played eleven men and Armour nine.

Simpson again led Armour in scoring with 9 pointers, while Rossing collected 8 and Rutkowski 6. Jones, Thomas, Corry and Lindberg scored 38 of Augustana's markers, Jones leading with 13 points.

### LINEUP

Armour	B.	F.T.	P.
Simpson, f.	4	1	1
Robin, f.	1	1	2
Ott, f.	1	0	1
Sandsedt, f.	0	0	1
Bruni, f.	0	0	0
Rossing, c.	3	2	3
Miran, g.	0	1	1
Rowley, g.	0	0	0
Rutkowski, g.	3	0	1
	12	5	10

Augustana	B.	F.T.	P.
Thomas, f.	4	1	1
Knanishu, f.	0	0	0
Chelstrom, f.	1	0	1
Borden, f.	0	0	2
Corry, c.	4	2	0
Hansen, c.	0	0	1
Jones, g.	5	3	3
Rowe, g.	0	0	0
Herd, g.	0	0	1
Mason, g.	0	0	0
Lindberg, g.	3	0	1
	17	6	10

## Former Student Killed in Plane

(Continued from page 1)

to respond to the controls. After completion of his courses at Armour in 1928, John Clark was stationed at the Great Lakes Naval Training Station for six weeks, from which he was transferred to Pensacola, Florida, for a period of three months. He had been stationed on the West Coast since July 1 with the Air Craft Squadron Fleet at San Diego.

The funeral was held Monday, January 13, from the home of his father at 6162 Kenmore Avenue, Chicago. He was given a Masonic burial at Acacia by Dr. Preston Bradley. Ensign Clark is survived by his father and by his wife, having been married about a year ago.

## RAMBLING TECHS

Get 'Em Next Time  
Tech basketballers have now engaged in five battles emerging with three victories and a pair of defeats. The remainder of the schedule totals nine games of which two are return games with teams that have defeated the Krafftmen.

According to reports the Augustana contest should have resulted in a much closer score. Both teams fought hard for the break with the advantage going to Augustana. Still when we consider that Tech totaled 18 points in the final half it seems that the boys have finally found the basket with their shots.

### Valentines Day

February 14, Tech routers will have an excellent opportunity to give the six footers from Rock Island the once over. On that Friday, Augustana will travel to Chicago to meet Armour at our home floor at the Armory.

Krafft took eleven men to Rock Island last Thursday. Every man who made the trip with the exception of Coach Krafft and Manager Faustlich played in the game.

Rutkowski, backbone of Tech defense, has shown his ability as a basket shooter. His three baskets coupled with Simpson's and Rossing's three gave Armour new life in Thursday's game and threatened to upset the dope of an Augustana victory.

Injuries seem to be prevalent on the black and gold squad. Listed here are the current casualties: Robin, shoulder injury; Tell, thumb popped into eye; Rowley, slight attack of gripe; Simpson, a cold. Robin and Tell will probably play in Tuesday's game with McKinlock of Northwestern University.

### The Annual Basket Scrap

Interfraternity basketball began its series of surprises and upsets last Thursday when Triangle defeated Sigma Kappa Delta 26-19, in the opening game and Delta Tau Delta defeated Kappa Delta Tau 24-1 in the night-cap fray.

Triangle with Olsen playing a stellar game at guard and with Lind scoring the major portion of points eliminated the fast breaking S. K. D. boys in a game of thrills. Back hand shots and long angle shots seemed to be made with apparent ease. Delta Tau Delta had little trouble in beating the disorganized K. D. T. The latter did not score a single basket during the entire game.

The interfraternity champions will be named on Friday when the victors of the upper and lower brackets meet in the gym in a game scheduled to start at 5:15 P. M.

### Looks Good At Present

Stagg issued a call for trackmen several weeks ago and to date nearly 40 men have turned out. A large number of these are runners with a very few hurdlers and field performers. If you can hurdle or do any of the field events you are urged to try for a place on the team. There seems to be a large number of men out for the middle distance and long distance runs.

Coach Stagg announced that the tentative date for the annual interclass indoor track meet would be February 25.

### Waterdogs Intact Again

Tech swimmers have up to the present defeated two "Y" teams and have suffered a single loss. Things look bright for the future for Captain Strauch has sufficiently recovered from his injuries to take part in his special events.

Manager Short of the baseball team has been spending his odd moments arranging the Tech schedule for this year. In a short time we will print the results of his efforts in the form of the official baseball schedule for 1930.

A. H. J.

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## NEW TRACK MEN TRAIN REGULARLY AT BARTLETT GYM

Interclass Meet To Be First on Year's Schedule

### HURDLERS NEEDED

The track team, consisting of about forty men, is now working out regularly at Bartlett Gym under the direction of Coach A. A. Stagg. This season there are many promising Freshmen who will give the regulars of last year very much competition.

Time trials have been held daily for the past week in order to give the men an idea of where they stand and also to encourage them to work harder. All new men should not be discouraged because they do not make good the first few weeks.

The first meet, the Armour Interclass Meet, will probably be held on February 25th. All men who are expecting to enter this meet are urged to start practicing before the final exams begin.

The following is a list of the men who have reported and are now practicing for the indoor track team:—Captain D. J. Paul, V. Sturm, H. Fox, D. T. Smith, T. Podlipiec, J. J. Kara, D. Iverson, H. P. Richter, E. J. Cordes, F. M. James, R. Timmermans, J. E. Ransel, R. P. Doubt, A. Oberbeck, O. Barnett, E. Sademan, M. J. Einsman, A. H. Helmick, C. H. Jones, Wm. J. McKinney, H. L. James, Y. E. Weldy, R. Corpstein, A. Jens, E. Sorenson, K. Hirsch, A. Weston, and E. P. Lomasney.

## MUSICAL TALENT BROUGHT OUT IN WINTER CONCERT

(Continued from page 1)

Emmett Higgins gave a piano solo, "Liebestraum," followed by George Burhop who sang three baritone solos. Both men were heartily encouraged so that they responded with two more numbers. The "Hungry Five" of Armour next appeared with their tuneful offerings, which were rewarded with coins from the gallery as were the strolling musicians of times gone by. Frank LeGrady, Jr., '32, played a violin solo, "Meditation from Thais." The Glee club returned with four numbers and the orchestra played three numbers that closed the concert. The Armour Fight song was then sung, and the assembly dismissed.

In an informal address recently before the Association of Medical Colleges, President A. Lawrence Lowell, of Harvard University, declared he believed the average age of the college student should and will go down. "I believe the younger a boy is when he goes to college the less likely he is to be influenced by the immoral and harmful conditions he may find there," said President Lowell.

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## Triangle Defeats S.K.D. in Fraternity Feud 26 to 19

Delta Tau Delta Leave Kappa Delta Tau Behind 24-1

Triangle Fraternity met Sigma Kappa Delta in the opening clash of the Annual Interfraternity Basketball fued in the Tech gymnasium last Thursday night. Delta Tau Delta defeated the very much disorganized Kappa Delta Tau team in the night-cap contest on the same day.

Opening the fray with a fast breaking attack Triangle amassed enough points to hold a substantial lead over the more cautious S. K. D. players. Late in the third quarter an assault on the Triangle basket came within one point of a tie score, however, a time out period cooled off the Sigma Kaps to such an extent that they were unable to continue their run of good fortune.

Delta Tau Delta outplayed Kappa Delta Tau so greatly that the game seemed to lack the usual punch that interfraternity contests produce. The Deltas gathered 24 to their opponents one point. K. D. T. was forced to play men who, technically were removed from the game on fouls. Delt's generosity allowed them to play and finish the game. Pearson scored six baskets in this game.

### Lind High Scorer

Stanley Lind, captain of the Triangle squad was the outstanding player of the evening scoring 15 of his teams 26 points. The opening game started out rather slowly, both teams looking for the weak spots in the enemy defense. Zone defense plays were used almost entirely. Although the Sigma Kaps were the most formidable quintet and seemed to have possession of the ball most of the time they were held to a single free throw while the Triangles dropped two baskets in the opening period.

In the second quarter, Lind opened up and dropped the ball through for six points. Stehno and Kramer both managed to sink one with the half ending 11 to 6. Lind opened the third quarter by duplicating his act of the second period. Olson dropped one through without touching the hoop from three-fourths the length of the floor.

Stehno led his men to a last quarter rally when they came to within a single point of tying the score. Hopes of victory soon faded, however, when Lind continued his good shooting, bringing his team through the danger zone. The final whistle

## Essay Contest For 2nd Year Electricals

The Delta chapter of Eta Kappa Nu, Honorary Electrical Engineering Fraternity, will award a Standard Handbook for Electrical Engineers or its equivalent to the Sophomore Electrical who presents the best paper on some current electrical topic. The theme must be typewritten, contain between 3,000 and 5,000 words, and must be turned in to Prof. Richardson on or before April 15, 1930. The following seniors: F. Bigelow, N. Buehling, H. Steir and M. Tennyson are the judges. The themes will be judged on the merits of good English, subject matter, and neatness.

found the Triangles ahead with a seven point margin.

### FIRST GAME Triangle-26

	B.	Ft.	P.
Thomsen	1	1	1
Woods	2	0	2
Olson	1	0	1
Markman	0	0	4
Johnson	1	0	0
Lind	7	1	9
	12	2	8

### Sigma Kappa Delta-19

	B.	Ft.	P.
Ross	0	1	1
Kennedy	1	1	0
Kutteruf	2	0	1
Gibson	0	0	1
Kramer	1	0	2
Stehno	4	1	1
	8	3	6

### SECOND GAME Delta Tau Delta-24

	B.	Ft.	P.
Schodde	0	0	0
Beal	0	1	1
Holt	0	0	0
Pearson	6	2	0
Dorman	0	0	2
Barber	4	1	4
Griffin	0	0	0
Jackson	0	0	0
Holin	0	0	0
	10	4	7

### Kappa Delta Tau-1

	B.	Ft.	P.
Heller	0	0	4
Katz	0	1	4
Levin	0	0	0
Field	0	0	2
Tuchinsky	0	0	0
Rosenfeld	0	0	0
Portnoy	0	0	0
	0	1	10

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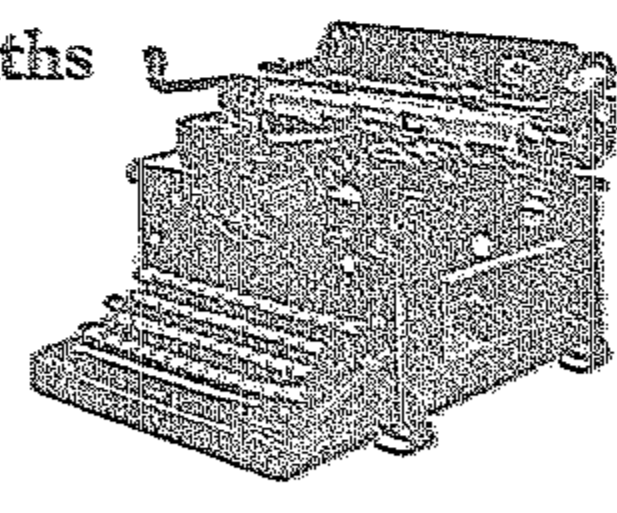
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