



BASKETBALL SEASON OPENS

SENIOR INFORMAL AT PALMER HOUSE WELL ATTENDED

Profit to Be Used For Banquet Next Semester

SHOAN SOCIAL CHAIRMAN

Much enthusiasm was forthcoming as "Waddy" Wadsworth's "Smart Set Orchestra" made sweet noises at the Senior Dance held last Friday night in the Red Lacquer Room of the Palmer House. A large crowd attended this school dance, first of the year, also the last dance to be given by the class of '30.

Under the direction of Ray Shoan, '30, Senior Social Chairman, the affair was run smoothly and efficiently. The chaperones were Doctor and Mrs. Howard M. Raymond, Dean and Mrs. Claude I. Palmer, Professor and Mrs. Arthur H. Carpenter, and Professor and Mrs. Henry T. Heald. Attractive programs were given to all those present.

While figures are not yet available, it is not expected that the affair will show a loss. Any profit on the dance will be applied to the giving of the Senior Banquet to be held next semester.

The members of the Senior Social Committee are:

- Ray Shoan, '30, Chairman
- Eugene Short, '30
- Harley Mullins, '30
- George Heller, '30
- A. J. Frost, '30.

Senior Surveyors Confined Indoors

Snow and cold weather have forced the senior electricals and mechanicals taking surveying to confine their work to the classroom. Probably no more outside work will be done until next spring.

Fire Protects Attend Petroleum Convention

The Junior F. P. E.'s attended the lectures of the American Petroleum Institute Convention at the Hotel Stevens last Thursday afternoon. These lectures were considered by Professor Schommer as excellent substitutes for regular laboratory practice.

There were three different lectures held at this time between which the students could choose. First a "Business Session of the Division of Development and Production Engineering," second a discussion of "Refinery Technology—Gum," and third a lecture on "Corrosion of Equipment."

In the lecture on Corrosion, papers were read discussing the electrolytic and chemical actions causing corrosion, also the merits of various methods of protection. This lecture was especially interesting, as the topic is now under consideration in two of the F. P. E. courses.

In the other sessions, papers of equal importance were read and discussed.

A meeting of the A. S. M. E. was held last Thursday in Science Hall. Talks were given by Charles Link, '31, and Fred Munch, '31, on subjects relating to the Mechanical engineering field.

H. Stebbins, president of the society, announces that talks on technical subjects by Juniors of the mechanical department are always welcome at the A. S. M. E. meeting.

Annual Christmas Program to Be Presented on December 19

PARENTS AND FRIENDS INVITED TO ATTEND

A.I.E.E. Attend 3 Day District Convention

The District Meeting of the American Institute of Electrical Engineers was held this year under the auspices of the Great Lakes District, with its headquarters at the Drake Hotel, December 2 to 4. The senior electricals from Armour attended all three days. The juniors were present one day.

The outstanding features of this convention were technical sessions on communication developments, power plants, transmission and distribution, and research and development. Student meetings, inspection trips and a dinner-dance also added to the interests.

The inspection trips were well attended by Armour students. The trips were made in busses to the following points of interest: Crawford Avenue Generating Station, the new Chicago Civic Opera, the Illinois Steel Mills, the Western Electric factory and the Longbeach automatic telegram exchange.

Tuesday evening witnessed a dinner-dance in the ballroom of the Drake Hotel.

At the students' session, Tuesday morning, a paper was presented by Clement J. McDonald, E. E., '29, on "Electrical Equipment Aboard Modern Steam Liners."

The convention concluded Wednesday, the senior electricals returning to their classes on the following day after a week's absence.

Teach Honored at A.M.S. Meeting

The paper submitted by Professor V. B. Teach of the Mathematics Department at the meeting of the American Mathematical Society November 30, 1929, proved to be of more importance than was at first recognized. Besides taking extra time for discussion at the meeting, Professor J. Bliss of the University of Chicago is planning to use parts of the paper in his work for the rest of the year. Professor Bliss is generally recognized as one of the three or four great mathematicians of the world.

The paper is the result of research in the field of "Calculus of Variations" which to the average student does not mean very much, but the Calculus of Variations is the finding of maximum and minimum functions involving definite integrals.

One of the practical applications of the theory is in the manufacturing field. Manufacturing plants employ groups of mathematicians, familiar with this theory and others, to calculate the maximum output at a minimum cost for their machines. The mathematicians decide how often the machine should be adjusted, their rate of output, and many other things of importance connected with this field.

The results of Professor Teach's research will help these men and many others.

Frosh Badly Burned in Foundry Monday

James W. Juvinal, '33, E.E., was badly burned about the hands while pouring a casting in the foundry Monday, November 25. He was taken to the Mercy Hospital but is now back at school and is improving rapidly.

The Glee Club and the combined Symphony Orchestra will join to present the annual Christmas concert on Thursday morning, December 19, at 10:30 o'clock in Assembly Hall. This is the outstanding musical program of the semester at Armour Tech.

Frank J. Aste, '30, leader of the Combined Symphony Orchestra in its second public appearance promises a pleasing Christmas program as its part of the assembly. One feature will be a piano solo by Emmett Higgins, '30.

The Glee Club will sing one of Doctor Daniel Protheroe's own compositions as well as several other numbers.

It is suggested that students have their parents and friends attend this event. The final program will be published in the next issue of the News.

Junior Informal Plans Complete

The Junior Dance, first of the social events of the Juniors', will be held January 24 at the Illinois Women's Athletic Club.

Berlyn G. McLaughlin, social chairman of the class of '31, has secured the services of Harold Leonard and his Opera Club orchestra.

Bids are \$2.50 and will be ready for distribution the latter part of this week.

Honorary Musical Pledges Five Men

Pi Nu Epsilon, honorary musical fraternity announces the pledging of five men. The pledges are:

- Richard R. Eddy, '31
- Jerome H. Kovaric, '30
- Thomas B. O'Connor, '31
- William A. Schrader, '31
- Robert N. Wilson, '31

The Armour branch of the A. S. M. E. will hold a smoker at the Theta Xi house Thursday evening, December 12. H. Faulstich, '30, who is in charge of the arrangements, promises eats, smokes, and entertainment. Several members of the faculty are expected to attend.

Any men interested in working in the editorial department of the Engineer should apply for positions through a member of the present staff.

CALENDAR

TUESDAY, DEC. 10

4:30 Alumni-Varsity Basketball Game at Armory
Honor "A" Alumni Banquet at Delta Tau Delta House
8:00 Swimming Meet at Y. M. C. A. College

WEDNESDAY, DEC. 11

5:00 Meeting of Trackmen in Room H

THURSDAY, DEC. 12

A. S. M. E. Smoker at Theta Xi House
Armour vs. U. of C. at Bartlett Gym

THURSDAY, DEC. 19

ANNUAL CHRISTMAS CONCERT

Honor "A" Alumni Banquet Tonight

A dinner for all alumni wearers of the "A" will be given tonight by the Honor "A" Society at the Delta Tau Delta fraternity house, 3155 S. Michigan Avenue, following the Alumni-Varsity basketball game. This dinner is an annual affair, being part of an "Athletic Alumni Reunion" for this day, sponsored by the Honor "A" Society, according to Vernon Sturm, '30, president.

The gathering will first witness the basketball game at the Eighth Regiment Armory, 35th and Giles. Immediately after the game, the crowd will assemble at the dinner. During the evening, several short talks will be made by the different coaches, and by alumni. Professor John J. Schommer also will make the presentation of "A" watch charms to a few men who will be taken into active membership of the Honor "A" Society at that time. After dinner, smokes and cards will entertain the guests.

The secretary of the society, C. J. Robin, '32, has sent out letters to 165 of its alumni members. The many responses already received cause the society to anticipate a large turnout, far exceeding that of last year.

J. E. Tarman Wins Schmier-Chemiker

John E. Tarman, '30, Ch. E., of greatest and most enthusiastic promoter of the "Schmier-Chemiker" Medal was paid in his own coin, or painted with his own brush if you prefer, when, at a recent meeting of the Senior Chemical class, he was chosen to wear the coveted trophy.

The occasion for this exhibition of poetic justice was dramatic in the extreme. Mr. Tarman called the meeting and announced to the class that he had had a new medal prepared, and the time was ripe for the presentation. Nominations were then made and someone suddenly remembered that the aforementioned Tarman had permitted a kettle of soap to boil over creating a considerable mess in the Industrial Laboratory, and Tarman was immediately nominated. When the vote was taken, the class was found to be unanimously in favor of Tarman. Although his extreme modesty prompted him to refuse the honor, his objections were promptly overruled. John J. Zolad, '30, made the award.

The 1930 edition of the Schmier-Chemiker Medal is made to represent a donkey's head in futuristic style and is awarded to the Senior Chemical, who in the estimation of the class, performs an exceptionally sloppy piece of work in one of the laboratories.

Stork Visits Home of Professor Grafton

Professor and Mrs. E. C. Grafton announce the birth of a daughter, Virginia Carlyle, on November 21. Professor Grafton has been an instructor in the Civil Engineering department since September.

F.P.E.S. Hears Talk on Sales Methods

Mr. Ormsby of the Rockwood Sprinkler Company addressed the Fire Protection Society last Friday in Room H on "Sales Methods." Mr. Ormsby told of the various methods employed by sprinkler engineers in selling equipment for automatic sprinkler protection.

VARSITY BEGINS SCHEDULE IN GAME WITH ALUMNI TONIGHT ON ARMORY FLOOR

Armour Squad To Face University of Chicago at Bartlett Gym Thursday

"Y" COLLEGE AND CHICAGO NORMAL NEXT

Today marks the opening of the current basketball season when the Armour Tech squad plays host to the Alumni on the Armory floor at 7:30 o'clock. The game will be played at the Eighth Regiment Armory, 35th Street and Giles Avenue, a few blocks east of Michigan

avenue. This first game is usually more or less of a sure thing for the varsity, but an upset may be in the offing. The Alumni usually present a team of individual stars with no definite system to follow in teamwork. Then again the former stars are often in sad condition, and a few minutes of hard, fast play mean a weakening of their team. On the other hand the varsity will present a team which has been practicing for five weeks. The men are in fairly good condition, and their teamwork is slowly but surely becoming more polished.

Students Average One Flunk Slip

Last week four hundred and forty-two of Armour's eight hundred thirty-nine students received "flunk" notices, eight hundred and forty-four of these joyful reminders being given out. Figures indicate that approximately one notice was given out for each student in the school and that the average number of notices received by each student who was given any was about one and nine-tenths.

A comparison with last year's figures shows a slight increase in the number of notices given. Last year there were eight hundred and thirty-two students in the school of whom four hundred and thirty-three received a total of seven hundred and eighty-five notices. The average number of notices per student in school was only ninety-five hundredths of one, and the average number for each student receiving any was one and eight-tenths.

According to the Office of the Deans, the fact that a student has received one or two "flunk" notices is no indication that he will fail in those subjects. Neither is it a blot on his scholastic record. A "flunk" notice merely is an indication that the student's "standing at the present time is below passing grade," and advises him to "give this matter" his "immediate attention."

No permanent record is kept of notices received by individuals so that a course passed after receiving a notice is just as creditable as one passed without one.

A.I.E.E. Listens to Radio Engineer

The Armour Branch of A. I. E. E. held a meeting in the Physics Lecture Room, Friday, December 6. Mr. P. F. Wareing, engineer in charge of the transmission experimental laboratories, of the Universal Wireless Communication Company, spoke on "Some Engineering Problems of the Universal Wireless." He outlined difficulties the new company has to overcome and presented the scheme of the plan which that company will put into operation when they inaugurate their continental communication with a chain of twenty stations scattered throughout the United States.

Radio transmitting tubes, which the company manufactures for their use, were passed around for inspection. They were of fifty watts, kilowatt and ten kilowatt capacity.

Eta Kappa Nu, honorary electrical fraternity will hold its informal initiation on Thursday, December 12, in their rooms. The formal initiation will be held on the following Tuesday.

Coach Krafft will probably present a variety of lineups against the opposition. The opening quintet will probably be Simpson and Roessing, forwards, Robin, center, and Rutkowski and Bruni, guards. For replacements Krafft will have Ott, Teil, Sandstedt, Miran, Quinn and Rowley. These eleven men will probably form the tech squad, although Krafft has not decided definitely as yet.

The alumni will be represented by "Vic" Hoefler, "Bill" Downes, "Cal" Johnson, Brockmann, Augustine, and Goodheart.

The University of Chicago will take on the Armour squad Thursday in a practice game at Bartlett Gym. Chicago's team is more or less of a mystery this year, so this practice game may show its strength. The varsity will meet a much stronger quintet in Chicago than in the Alumni. Still, there is a good chance of an Armour victory, with a little support from the students.

These first few games mean a whole lot to an untried team such as Armour has this year. Wins in the first few games, namely Alumni, "Y" College and Chicago Normal will give the squad the confidence it needs. Support of the students, a thing which has been sadly lacking, will go a long way toward bringing about those victories.

Order First Group Senior Class Jackets

An order for seventy-five Senior jackets was sent in to Loren and Miller company last week, and yesterday a representative from that organization visited the institute to take measurements for the coats. According to Bob Johnston, chairman of the committee in charge of getting the jackets, the delivery should be made before the Christmas holidays.

The coats are to be black, with the A. I. T. Monogram on one pocket and the class numerals on the other. The brilliant braid that was featured on last year's jackets is noticeably absent from the garments this year.

Architects Inspect New Opera Building

About 50 of the Senior and Junior architects held an inspection trip to the Chicago Civic Opera House last Thursday afternoon. Messrs. August C. Wilmanus, Assistant Professor of Architectural Construction, and Walter L. Suter, Instructor in Architectural Design, were the representatives of the faculty.

The interesting features of the excursion were the visits to both the theatres, behind stage, and also the lighting systems.

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BASKETBALL

With the blowing of the starting whistle tonight at the Varsity-Alumni basketball game, the 1929-30 college season officially opens for Armour. For the past four weeks Coach Kraft and his men have labored diligently to build up a team that will come through the season in a victorious manner.

A long and difficult schedule has been arranged, calling for fifteen games, seven of which are away from home. It is no easy task which confronts the team. However, a spirit of grim determination pervades the squad this year, a spirit which means that every game will be a battle from start to finish. Last year, several games were lost by heart-breaking margins of one, two, or three points. These losses were due to one, and only one, thing—lack of student support. That desperate last minute rally, put forth at the stimulus of a crowd of cheering students, was lacking. How can a team feel like putting forth its best efforts when the student body does not even care enough to attend the games?

This year Armour is going to have a fighting team, a hard-playing team, one which will furnish thrills a-plenty. Their success is going to depend upon the support they receive. Let's all be out there on the side lines backing the team at each and every game. Now is the time to start. Tonight is the first game; be at the Armour at four-thirty o'clock.

FLUNK NOTICE

Some people become discouraged when things look dark for them, others settle down to fight harder. Those that are easily discouraged lose out, those that keep plugging away win. Last week the mid-semester distribution of "flunk" notices was performed. Students took these little slips, read them, and reacted, each according to his own nature. One said, "Good gosh, lookit all these subjects I'm flunking in. I'll be on probation next semester if I flunk those. In a bad way. What will my folks think?"

However, another said, "Doggone, lookit all those subjects I'm flunking in. This won't do. I bet I can pass all of them or maybe all but one if only I work a little harder. Anyway I'm going to pass or bust a leg trying."

Maybe the second man will not pass all his work, but he will probably pass most of it. It is a "cinch" that the first man will not pass his work; at least if he continues with his present attitude. Don't be like the "good gosh" man, be like the "doggone" man. There are nine weeks left to raise the old average. An engineer is never a quitter.

THE SLIPSTICK

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

THE PSALM OF RADIO

Radio is my hobby! I shall want no other.
It maketh me to stay home at night,
It leadeth me into much trouble.
It draweth on my purse—
I go into paths of debt for its name's sake.
Yea, though I understand it perfectly, it will not oscillate.

The different kinds of notes—they comfort me;
Yet it will not work in the presence of mine enemies.
I anoint the coils with shellac,
But the tube spilleth over.
Surely the radio bug won't follow me all the days of my life,
For if it does I will dwell in the House of Poverty forever!

SLIPSTICK

If you never saw that kind of dancing,—it's collegiate.

Clerk: "Did you get any of those moths with those moth-balls?"
Mrs. Doe: "No, I tried for five hours, but I couldn't hit one."

Garlic Too

Joe says, "eating onions is the secret of long life;" but we wonder how it could be kept a secret.

Tourist: I want accommodations for a trip around the world.
Clerk: Yes sir. One way?

Now Is That Nice

Frank: You know that Chester is a nice lad.
Wallace: How come? I don't think so. I saw him treating his girl friend as I wouldn't treat a dog.
Frank: I don't believe it. What was he doing?
Wallace: Kissing her.

The recent trip of the Radio Class to the Majestic plant was very instructive (or destructive). More interest was shown in the operators than the operation.

Or Any Drug Store

Autoist: "Where do you get auto parts around here?"
Native: "At the railroad crossing."

"Oh, mamma," said little Ophelia, "I saw the funniest thing when I was coming home. There was a man sitting on the sidewalk talking to a banana skin."
JOE.

A filing cabinet is a place where letters can't be located.

Freshman: "Where have you been?"
Soph: "In the hospital getting censored."
Freshman: "Censored? What do you mean?"
Soph: "Oh, I had several important parts cut out."
H. W. H.

This is the season for naming an All American Football Team. Why not Notre Dame?

DEC. 2ND

School was resumed after a welcomed vacation during which everybody caught up on reports, problems and sleep. Flunk notices were out; were you disappointed by not getting one. Another session of Congress opened; who cares?

Par Four

Lawyer: "He claims his wife was intractable, your honor, so he beat her into subjection with a golf club."
Judge: "In how many strokes?"

"It is as hard to satirize well a man of distinguished vices, as to praise well a man of distinguished virtues."
—Swift

Jones: "Sorry, old man, that my hen got loose and scratched up your garden."
Smith: "That's all right; my dog ate your hen."
Jones: "Fine! I just ran over your dog and killed him."

The difference between luxury and a necessity is twelve payments.

We were taken quite seriously about our Funny Fraternity. Now we want a name for it. We welcome R. S. F. this week. In the future three hits make you a member—Wasn't the snow delightfully damp?
K. K.

Polly: "The photographers never do me justice."
Molly: "You want mercy, not justice, dear." Joe.

They usually have butlers in a mystery play so that the audience will have somebody to suspect.

"What hit you, a steam roller?"
"No. My wife wired from Hot Springs, saying she'd lost half her weight in a month and wanted to stay longer. I told her to stay another month."
R. G. P.

Penny gum machines were invented so that tight-wads could gamble.

Did your radiator freeze up last week? It won't be long till New Year's Eve. Do your shopping early.
K. K.



Professor Charles Austin Tibbals

(A Biographical Sketch)

BY P. EMIL SEIDELMAN, '31

Charles Austin Tibbals, Professor of Analytical Chemistry, was born in Brooklyn, New York, on July 23, 1881. He received his early training at private schools and his high school education at the Public High School of Warwick, N. Y. For the three years following his graduation he attended Columbia University School of Mines, where his athletic participation consisted of track and lacrosse.

In 1902, he went to the University of Wisconsin, as an Assistant in Chemistry, where he remained six years. While at this college he received his B. S. degree in 1904, his Masters in 1906, and his Doctors degree in 1908.

Prof. Tibbals came to the Institute in 1908 as an Assistant Professor of Chemistry. He was promoted to an Associate in 1910, and to Pro-

fessor of Analytical Chemistry in 1928.

In 1908, he married Miriam Reed of Madison, Wisconsin. They have two children, one son, who is now attending Howe Military Academy, and one daughter, who is a Junior at Lake Forest.

During the late war he served for one year as Captain, Ordnance Department, U. S. A. engaged in research on high explosives and projectile loading.

Prof. Tibbals besides giving instructions in the mystery of acids, also includes a detailed account of the lob and back hand. His ability in this latter direction is aided by the fact that he is coach of the Armour tennis team.

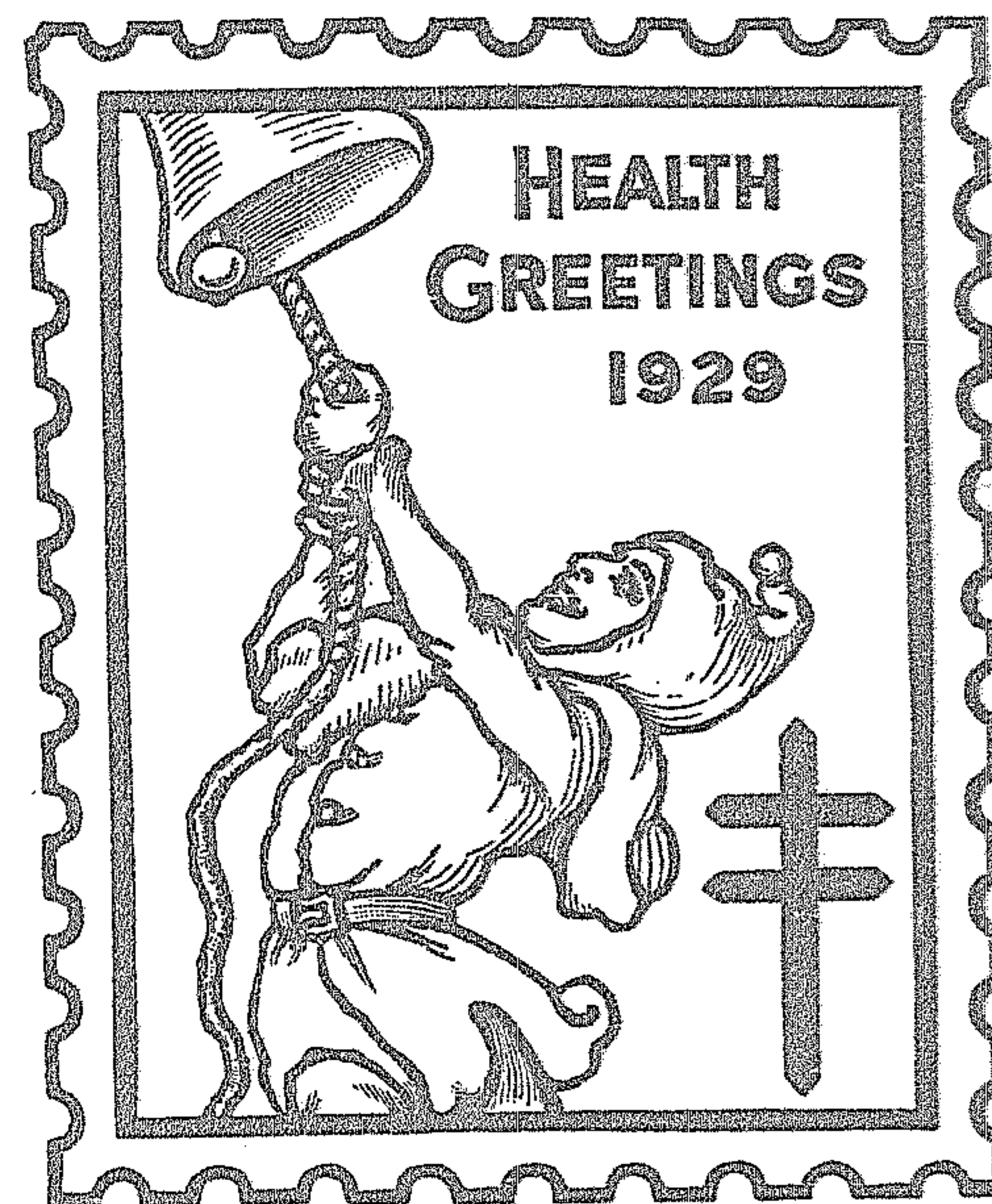
Prof. Tibbals is an Officer of the

Organized Reserve, a Fellow of the American Association for the Advancement of Science, a member of the American Chemical Society, The University Club of Chicago, and the University of Wisconsin Club of Chicago. He is also on the staff of Underwriters Laboratories, acting as a Special Chemist.

Prof. Tibbals is the author of numerous papers connected with the Chemistry of Fire Protection and Fire Prevention. Also, with E. D. Gill, the author of a textbook of Quantitative Analysis.

His chief recreations are golf, tennis, fishing and camping.

A wedding is where the groom begins kissing the bride and the other fellows stop.



Telephony knows no barriers

Telephone lines must cross natural barriers. This means construction methods must be flexible, readily varied to peculiar local conditions.

Special problems arise, too, in telephone laboratory, factory and central office. How to protect poles from insect attack? How

to develop more compact equipment for use in manholes? How to assure a sufficient number of trained operators? How to build long distance business?

It takes resourcefulness to find the answers, to surmount the barriers. There is no stereotyped way.

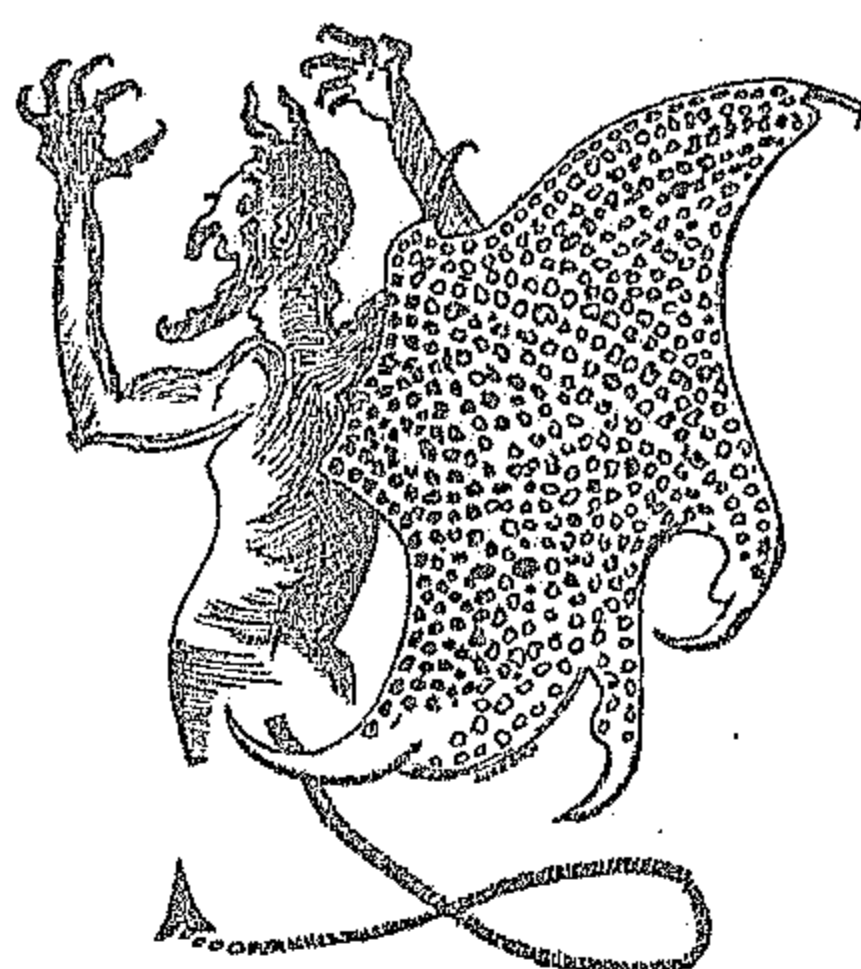
BELL SYSTEM

A nation-wide system of inter-connecting telephones



"OUR PIONEERING WORK HAS JUST BEGUN"

REVIEWS



THE WAY TO ECBEN

By James Branch Cabell

Robt. M. McBride & Co., Oct. 1929

James Branch Cabell is one of the few contemporary writers that is actually distinctive; he has no ties with any one group of stylists, but has his own original virtues. In all of his long list of past works, one cannot find a book that might be listed as of a common nature; the man produces nothing but these fantastic, allegorical, perplexing tales.

Cabell never sets out to write a humdrum tale of life, but rather to create in the exotic world of his origination such characters that will in the course of their appearance before us, tell their story, act out their life, and then leave us to piece out the riddle. Whether or not one understands the second meaning behind the book, and this holds true for any of his works, the delightful adventures, the careful prose and the occasional poetry must please. To those who have read "Jurgen" or "The Silver Stallion" this book needs no further introduction.

To retell the "comedieta of a gentlemen" would spoil the reading, and to give my views of the allegory would cause only dissatisfaction among the readers; let me limit this to a discussion of the book merely as a piece of writing.

Cabell shows two of his outstanding traits most predominantly in this book; the first being his euphonic names, and the second his stray epigrams. Among the names we find such as Rorn, Ulf, Alfgar, Pen Loeygr, Kog, and Uwardowa; surely these unusual sounding terms must appeal, and if you are well read, remind you of Lord Dunsany.

As a sample of the terse and witty remarks made at random thru the tale, I quote, "Loyalty is a fine jewel; yet many that wear it die beggars." In this day it could be appropriately carved in some public buildings, for it has many followers.

Another attractive feature of this book is the host of illustrations by Frank C. Pape. Pen and ink seems to perform wonders under Mr. Pape's guidance; a crude copy of one of his fantastic creations is hereby reproduced. Even if the book is not read, a mere perusal will attract anyone with a hankering for eccentric sketches.

In a colophon, Cabell gives his views upon writing and especially as applicable to a man past fifty. From this, one gathers that this is to be the last work of Cabell, and so must sadly take leave of Don Manuel and Poictesme, where so many delightful hours in the past have been spent.

ALUMNI NEWS

George Libanoff, C. E., '29, is connected with the Bureau of Valuation of the Department of Commerce at Washington, D. C.

Fred Natella, C. E., '28, informs us that he is now working for the government in the United States Coast and Geodetic Survey department. Fred has charge of a sixty-foot launch and six men. His official title, he tells us is Deck Officer of the Coast and Geodetic Survey department. In the course of his duties, he recently visited Yale, Harvard, and West Point. His work covers a wide field, and, on a moment's notice he might be sent anywhere in the United States or any of its possessions.

And then there's the Scotchman who took the girl with scalp trouble to a masquerade ball and used her dandruff for confetti.

Former Professor Writes to Civils

A letter recently received from Professor James R. Griffith, formerly Assistant Professor of Hydraulic and Sanitary Engineering at Armour, tells of his new work as head of the Department of Civil Engineering, Oregon State College, Corvallis, Oregon. He also enclosed a copy of an article by him published in a fall number of "The Highway Magazine."

After reading in the Armour Tech News of the rumpus in "Civil-Alley," he says "So the war-fare in Civil Alley is over. Am just wondering what James Rose will do about his pipe. The smokers will be hard hit, especially in cold weather. "I miss, in a good way, all the confusion and racket of the civil drafting room. As I look out of my window at the coast range two miles away and think of the wild animal life present there, I cannot help but compare it to the view I used to have from my window at Armour. I still remember the lone tree waving in the breeze.

"Give my very best regards to all the boys in the Senior Civil class. Were I there I suppose I would have to worry them through 'Highways,' much to their disgust as well as mine. My successor has my entire sympathy. Don't make it too hard for him."

He also states that he has a good looking stenographer, a good sized office to himself, a drafting room, and a private recitation room, used only by his own students.

Oswald, '16, Writes on Short-Wave Telephony

A. A. Oswald, E. E., '16, radio research engineer with the Western Electric Company, at 163 West Street, New York City, is the author of an article on "The Story of Short-Wave Transoceanic Telephony" published in a reprint from the "Bell Laboratories Record" by the Western Electric Company. Mr. Oswald is one of the engineers in charge of the development of short-wave radio transmitters and receivers.

According to Mr. Oswald's article this development work has been in progress for the last five years. Stations have been built at Houlton, Maine; Netcong, New Jersey; Lawrenceville, New Jersey; Rocky Point, Long Island; Cupar, Scotland; and Rugby and Baldock, England. The efficiency with which this work has progressed is a monument to engineering cooperation.

As a result of this work commercial communication service was opened on June 1, 1929 by a call from Cleveland, Ohio, to London, England.

Professor Krehbiel Selected as Judge

Mr. Albert H. Krehbiel, Associate Professor of Freehand Drawing and Water Color, was chosen to be one of the three judges of the drawings at the Annual Exhibition of the St. Louis Artist Guild held last Saturday.

A prominent physician of Japan states that after examining the eyelashes of 7,000 school children that the lashes of unhealthy children are longer and prettier but the healthy child has short ones.

A bachelor is a guy who never had an automobile when he was young.

Library Announces Several Additions

The Library has recently received three engineering publications recommended by the "Engineering News-Record," a McGraw-Hill periodical. They should be of particular interest to civil engineers and architects.

Of these, the first is written by Professor F. B. Seely of the University of Illinois, assisted by Professor R. V. James of the University of Oklahoma. The title is "Plaster-Model Method of Determining Stresses Applied to Curved Beams." The second is "Suspended Matter in the Colorado River 1925-1928," by C. S. Howard. Third is "The Universe Around Us," by Sir James Jeans.

Among the other publications listed by the "Engineering News-Record" are two which are also recommended by the Deans' Office as booklets which students would do well to get.

"The Structural Design of the Pantheon in Rome" by Dr. Gilberto Bagnani, published by the Atlas Portland Cement Company, 25 Broadway, N. Y. C., is a beautifully illustrated pamphlet which should be interesting to everyone.

The second booklet is recommended to civils particularly as it is on "The Superiority of the Steel Bridge." It is published by the American Institute of Steel Construction, 200 Madison Ave., New York City.

These two booklets may be obtained by writing to their publishers.

Plays Given in Armour Mission

Two plays were presented in the Assembly Hall Friday night by the Ladies' Aid Society of the Armour Mission. The plays were "Not a Man in a House" and "A Borrowed Luncheon," a short comical sketch. All the parts were taken by members of the society.

The society also gave its annual bazaar Friday. This has been given every year for the past twenty years and for the last nineteen has been directed by Mrs. George L. Scherger, the president.

The proceeds of this bazaar are used to give the children of the mission a summer vacation at Camp Gray, Saugatuck, Mich.

Rochester Students Classify 'Blind Dates'

The men students of Rochester University, believing that much time is wasted by the socially-minded student on blind dates, have evolved a code for classifying the names of all the girls in the telephone directory.

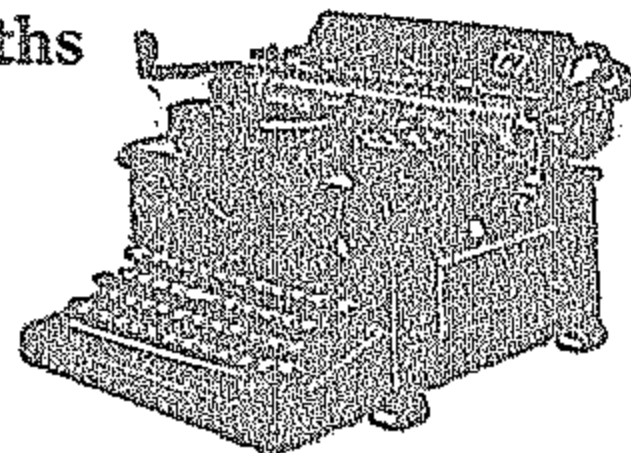
No student should be condemned to a dull evening with the co-eds classified in the following manner: A, average; B, beautiful; K, kisses; L, liberal; M, mercenary; P, pippin; R, rough; T, tells; V, vivacious; X, expensive; and Y, unknown quantity.

Many more girls would study domestic science if they had not observed that women who can cook generally have to.—Boston Telegram.

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FRATERNITY NOTES

DELTA TAU DELTA
The Fledges are holding their annual "Pledge Dance" on Friday, December 13, 1929 and will be very appropriately called a "Friday the 13th Dance." Work is being done decorating the house in accordance with the "13th."

James M. McAlear, x'31, visited the Chapter for a few days last week. He is now working in Prairie du Chien, Wisconsin, having fully recovered from his recent illness.

SIGMA KAPPA DELTA
Sigma Kappa Delta is holding its annual Christmas Party on Saturday, December 21, 1929.

PHI KAPPA SIGMA
Phi Kappa Sigma announce the pledging of Harold A. Reich, '30. An alumni smoker will be held at the Chapter house Friday, December 13, 1929.

THETA XI
An alumni smoker will be given at the Chapter house tomorrow night at 8:00 o'clock.

A dinner and dance will be given at the house next Sunday, December 15. Dinner will be served at one o'clock. Victrola and radio music will be the order of the syn-copation for the afternoon.

Theta Xi held formal initiation for the following men last Saturday afternoon at the Chapter house:

- Frank LaGrady, Jr., '32
- Russell E. Long, '32
- Myron G. Lukey, '31
- Orland R. Murphy, '31
- John E. Taylor, '32

Eighty-five per cent of the automobiles stolen in the United States last year were recovered. Only fifteen per cent had any luck at all.

All Steel Highways Predicted in Future

Highways made of one single strip of steel welded together and extending from coast to coast were predicted for the future by Bennett Chappel, vice-president of the American Rolling Mill company, addressing the annual convention of the International Acetylene association.

Then there is the one about the Scotchman who was invited to a party and was told each guest was to bring something, so he brought his relatives.

Telescopic power ten times as great as that given by the 100-inch reflecting telescope of the Mt. Wilson Observatory, now the largest in the world, will be at the disposal of astronomers when the 200-inch reflector of the California Institute of Technology is completed. It will penetrate three times as far into space as the 100-inch and bring into view a globular region of space thirty times the volume of that reached by present day telescopes.

"Well, I'll be," said the hole in the ground as water began to seep in at the bottom. And, well, it was.

Inquiring Reporter

Question: Are you going to attend the Alumni-Varsity Basketball game Tuesday night?

- S. Morris, Arch., '33. Yes.
- E. D. Anderson, C. E., '32. Yes.
- H. Pappageorge, Arch., '32. Yes.
- J. O'Hara, M. E., '33. Yes.
- W. Hornberger, C. E., '32. No.
- C. Foster, E. E., '33. Yes.
- O. Eskonen, C. E., '32. No.
- F. S. Katz, Ch. E., '30. Yes.
- F. S. Beale, E. E., '33. No.
- J. De Orto, M. E., '32. Yes.
- W. L. Filmer, E. E., '30. No.
- F. H. Bigelow, E. E., '30. No.
- A. M. Ream, Ch. E., '33. No.
- R. L. Young, Ch. E., '30. No.
- J. W. Baur, Arch., '32. No.
- L. Cosme, C. E., '32. Yes.
- E. G. Magnuson, F. P. E., '32. No.
- J. W. Johnson, F. P. E., '32. Yes.
- L. A. Meuller, C. E., '32. No.
- F. Coletto, Arch., '30. No.
- W. Lussenhep, Ch. E., '31. No.
- G. J. Heller, M. E., '30. No.

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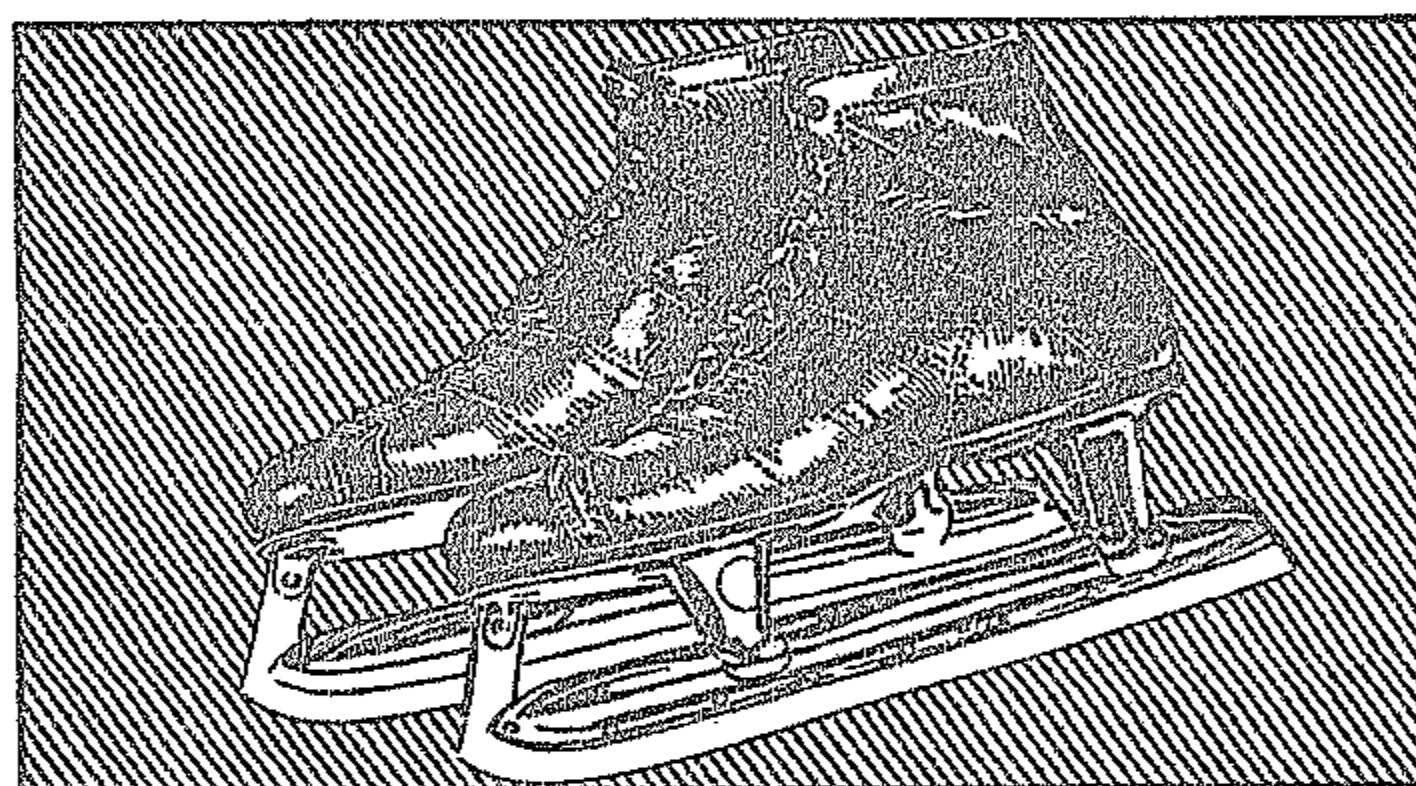
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FROSH NOSE OUT SOPHS IN FIRST INTERCLASS TILT

Gain 8-6 Lead in Last Few Minutes of Play

WILL PLAY JUNIORS

Last Wednesday evening the Freshmen edged out an 8-6 win over the Sophomores in the first inter-class cage tilt. This victory keeps the Freshmen in the race for the class championship honors which will be staked when they meet the Juniors.

The defeat handed the Sophomores was an upset to the participants in this year's contest inasmuch as the class of '32 was conceded a favorable chance of winning the inter-class title. The forthcoming tilt with the Juniors will bring more light on the subject.

If the Freshmen can repeat against the Juniors, Armour can rest assured that it has a promising Varsity aggregation in store. The work of Gustafson, Stabovitz, and Escarraz was especially outstanding.

Game Moves Slowly

The Freshmen-Sophomore game, however, was a slow progressing contest. Each team played cautious basketball, stressing the defensive phase above everything else. The score 8-6 evidences that neither team lost patience with its defensive tactics. Comparatively few long shots were attempted while none of the short toss-ups were made at any great risk. It was not until the final two-minutes of play that the Sophomores became rampant in their attempts to cage any points, but their efforts were of no avail.

At the end of the first half the score stood 4-0 in favor of the Sophomores. Carlson and Beal placed the two baskets for the leading team. The Sophomores were forced to relinquish this lead in the third quarter, but again assumed the lead only to be nosed out in the final minutes of play. Ellis' basket followed by Gustafson's free throw brought the count to 4-3. Stabovitz's foul shot then deadlocked the score at 4. Stalzer broke the knot and placed the Sophomores in a 6-4 lead with a basket in the closing seconds of the third quarter. This incidentally was the last time that the Sophomores enjoyed the lead.

The Freshmen retaliated with a marker that brought the score to another tie which was broken when Stabovitz sunk the winning basket.

Carlson, Leichtenberg, MacLennan and Stalzer performed ably for their team but lacked the scoring punch that was needed to reverse the outcome of the game.

Following is the box-score:

Freshmen		B. F. T. P.	
Ellis, rf	.....	1	0 0
Marks, f	.....	0	0 1
Stabovitz, c	.....	2	1 1
Pearson, rg	.....	0	0 0
Cosme, lg	.....	0	0 0
Gustafson, rf	.....	0	1 1
Escarraz, lf	.....	0	0 0
Ireland, rf	.....	0	0 0
		3	2 3
Sophomores		B. F. T. P.	
Billings, rf	.....	0	0 1
Stalzer, lf	.....	1	0 0
Leichtenberg, c	.....	0	0 0
MacLennan, rg	.....	0	0 2
Carlson, lg	.....	1	0 1
Lind, rf	.....	0	0 0
Beal, lf	.....	1	0 0
		3	0 4

Referee—Vernon Sturm.

An Oregon man has not shaved for 78 years. What a bum team he must have bet on.

"There's bars in them hills," sez the old farmer.

"But our little Nell isn't affeered of bars, she's got a bicycle and she can handle bars."

The average motorist in the United States spent 293 dollars last year in the operating and up-keep of his car.

Armour Swimmers to Meet Y. M. C. A.

The Armour swimming team is to engage in its first meet tonight when it opposes one of the strongest teams in the Middle West, the South Chicago Y. M. C. A. That this "Y" is so well known in swimming circles is easily accounted for when we make a casual investigation of its swimmers. There is Captain Dean Garrison, former Hyde Park High School star in the free-style event and recently a Chicago Athletic Association swimming team member. Then there is "Dutch" Van Twin, for two years National Athletic Federation champion in the 100 yard breast stroke splash. "Dutch" in addition to holding the national record in this event also has a flock of other records, some being in the free style events. Their team also claims "Swede" Erickson who, during his career at Tilden Tech High was the National Interscholastic champion in the 220 yard free style. These three champs form the nucleus of the team which Armour will try to defeat.

Captain Fred Strauch, '30, and Manager Vander Velde, '30, think their team is in good shape to meet some other water-dogs. Edwin Knox, '31, among others, is stepping along nicely in the short sprints and Jack Cavanagh shoots along at a fair clip in the 220 yard breast stroke. Also hitting it up in this event is ex-Captain Walter Trognitz, '30.

The South Chicago Y. M. C. A. is located at 3039 East 91st street. The swimmers are asked to be there at about 8 p. m. and should bring suits in case they will be needed. Admission for spectators will be free.

John Schommer in Great Demand

Prof. Schommer has been kept on the jump all week end and sees no sign of break in sight. Last Thursday evening he spoke at the banquet held preliminary to the Big Ten Meeting. Friday he addressed the Conference with a thorough discussion on the interpretation of rules. About 150 coaches and faculty members of the Big Ten were present at the meeting.

The University Club at Chicago was the next place to hear Prof. Schommer speak. This was on Saturday.

Yesterday he refereed the Northwestern game at Evanston. Due to the fact that the University of Iowa was banned at the conference held last week, the basketball schedule which is usually made out in the spring for the following season has not as yet been formulated. This leaves Armour's capable "whistle-tooter" in the dark as to what games he will referee this season.

Gristle Grows to Bone in Research Test Tubes

Cambridge, Eng.—A most amazing case of living tissue being grown outside the animal body is the growth of the embryo gristle or cartilage into bone. This remarkable transformation has been accomplished by Miss Honor B. Fell, working at the Strangeways Research Laboratory here.

When the proper conditions of nourishment and temperature are maintained, isolated cells from animal embryos have been seen to grow and develop in the test tube just as if they were still in the animal body. Miss Fell, using a technique similar to one devised by the late Mr. Strangeway, has thus cultivated tiny pieces of gristle from six-day old embryos of fowl. During cultivation, they increased more than three times their original length and developed along practically normal lines.

Besides growing, these test tube cultivations have actually manufactured a substance called phosphatase, an enzyme, which is of immense interest to biochemists.

There will be no room for stow-aways on the new \$200 mail order automobile to be on the market soon.—Russellville, Ark. Courier Democrat.

JUNIORS WIN FROM SENIORS IN OVERTIME PERIOD, 16-15

Setterburg Leads in Scoring With Seven Points

MEET FROSH NEXT

The Juniors in a nip-and-tuck battle from the tip off until the final whistle of an overtime period outwrestled the Seniors by a one point margin, the final score being 18 to 17, in the Inter-Class basketball tournament. Both squads were so evenly matched, the wits of the Seniors against the skill and speed of the Juniors that not once during the game was there more than a three point lead.

There were no outstanding players, but each player gave all he had in the perfection of a fast passing game. Setterburg of the Junior squad led the scoring list with seven points to his credit. Serson, a Senior, was next with six points.

FIRST QUARTER

After the tip off both teams took it slow for a few minutes, each feeling out the other's weaknesses. The Seniors then opened up with Serson sinking a long shot from the center of the floor. Setterburg quickly retaliated with a basket for the Juniors. Again each of these men sank a basket and Stehno sank a free throw. Hurley quickly evened the score by sinking one from the free throw line. Another free toss by Rowley gave the Seniors a one point lead as the quarter closed. Score: Seniors 6; Juniors 5.

SECOND QUARTER

The scoring was cut down considerably in the second quarter, Rowley sinking only one free throw to another basket by Setterburg and two generosity shots by Rutkowski and Pepe. This made the Senior rooting section very mild and meek during the halves. Score: Juniors 9; Seniors 7.

THIRD QUARTER

The Seniors were held to a single basket by Hurley while the Juniors added a basket by Kutteruf and a free toss by Pepe to their score. This silenced the Seniors entirely while the Juniors gave vent to their feelings. Score: Juniors 12; Seniors 9.

FOURTH QUARTER

The fourth year squad again went on a scoring spree, Rowley, Hurley and Olson each scoring a basket. The Juniors managed to tie the score when Johnson sank one and Setterburg made a free throw. Score: Seniors 15; Juniors 15.

OVERTIME

In the first minute of this period Serson sank one from close in under the cage. This made the Juniors snap into it and Stehno sank a long shot. A personal on Rutkowski by Serson put the Juniors ahead by an 18 to 17 score. The final whistle blew without any further scoring by either team.

Final Score: Juniors 18; Seniors 17.

LINEUP

SENIORS	JUNIORS
Quinby.....RF	Rutkowski
Rowley.....LF	Stehno
Serson.....C	Setterburg
Hurley.....RG	Erland
Fee.....LG	Johnson
Sub—Ross for Quinby, Pepe for Erland, Kutteruf for Johnson, Schirmer for Stehno, Olson for Serson, Serson for Fee, Ross for Serson.	

Action of the dean's office at the University of Michigan in sending student spies to fraternity dances to look for traces of liquor has aroused a flare of indignation from the student body which does not promise to subside for some time, according to the University of Washington Daily.

TECH SHORTS

Tech Varsity

The other evening we watched the Varsity practice at the Armory. Except for several minor casualties the Varsity is about ready to open their schedule.

Krafft has a game scheduled with the University of Chicago for Thursday at the Bartlett gym. This will be a practice game and promises to be a good one.

Too Bad, Don't Walk

Captain Simpson has a rather bad foot. His right foot has a slight infection at the bottom which makes it painful for him to walk.

In the evening scrimmage Tell played center with Rossing and Robin in the forward positions while Rutkowski and Miran played the guard positions.

A "Nosey" Guard

When Miran appeared on the floor with his football nose guard he looked like he had a very large nose. After several minutes play "Von" discarded the offensive protector because it impaired his breathing.

Interclass

Basketball started with a bang around Tech last week. Two of the interclass games were played to officially open the season.

Thrills seems to be the keynote of most games played in Armour's 45x45 gym. On Wednesday the Frosh trounced the "cocky" Sophs. Thursday saw the Juniors take the bacon from the fourth-year men.

Freshmen 8—Sophomores 6

The Freshman-Sophomore contest ended with the score, Frosh 8; Sophs, 6. The Sophs gathered most of their points in the early part of the game and then proceeded to illustrate the famous "lay down". While the red shirts were resting, Gustafson rallied his green team to the extent of 8 points, enough to cop the contest. Stabovitz, with his captain, carried the brunt of the Freshman attack.

No Frosting Left

Many games have been played in Tech gym, but it remained for the Junior-Senior clash to present the climax for genuine thrillers. In their annual basketball game last Thursday the Juniors "took all the frosting off the Senior cake."

Oh, What a Game

After 40 minutes of hectic battling the score stood at 15 all. A five minute overtime period was played and five points resulted. The Juniors got three while the Seniors got only two of these. Final score was 18 to 17 in favor of the class of '31.

The Juniors missed 16 free throws, certainly enough to win any game.

The Ref and His Cigars

When the game was called it was noticed that one, Otto Kuhn was in the referee's position. Otto did a very creditable job in conducting the game for very few kicks were noticed in the audience of some 50 loyal rooters. Maybe, for his good work he will receive the cigars which the class of '29 promised him last year.

What the Seniors Had

President Serson of the Seniors was in the center position with Fee and Hurley as forwards in the '30 team. Quinby, Rowley, Ross and Olson acted in the guard positions. This combination was not strong enough to overcome the long range shooting of Setterburg and the Junior forwards, however. Rowley threatened to end the contest several times in the final minutes but his shooting was erratic. He had a chance for two

Track Captain to Be Elected Tomorrow

All trackmen bidding for berths with this season's indoor track team are requested to respond to the first call which will be issued tomorrow.

The assemblage for prospective candidates and letter men will be held in Room H of the main building at 5 p. m. The meeting will provide for the election of the 1930 captain.

Coach A. A. Stagg, Jr. will be present to give his views on the indoor track sport and will seek to get acquainted with the men who aspire to make the team. Other matters pertaining to the forth coming meets will be entered into the discussion.

Many of last year's performers have graduated leaving a number of vacancies yet unfilled, so tryouts will be given to the new men.

points on free throws but both went wide of their intended mark.

A Good Man

Rutkowski, who is slated for a guard position on the Varsity, played his usual brilliant game. But for his free throw at the last moment of the game another overtime period would have had to be called. "Rut" literally won the game in that one single shot.

What the Juniors Had

The supporting cast in the Junior victory was Johnson, Erland, Stehno, Pepe, Kutteruf and Schirmer.

Draus, Micuccio and Holt were at hand but their services were not required.

A Slim Margin

At no time during the game did more than three points separate the two teams. Oh, what a game that was.

With his Armour tie, black and yellow, "Vern" Sturm assisted in the operations on Thursday. He did some fine work in refereeing the Frosh-Soph game on Wednesday.

The "Dope" Later

As we go to press the championship game between the Juniors and the Freshmen is being played. We shall have the "dope" for this column next week.

Possibly Schommer will come through with that article he promised us several weeks ago. He might give us the inside on this Iowa reinstatement case.

Alumni vs. Tech

Tonight the Alumni and the Varsity mix in the first scheduled game of the year. "Vic" Hofer and "Bill" Downes will probably be around to get their annual basketball practice.

A Start Anyway

A track captain is to be elected tomorrow. It looks as though Paul

WELDON ANNOUNCES FRATERNITY BASKET BALL SCHEDULE

Teams to Play One Practice Tilt Each

PI PHI'S HAVE TWO LEGS OF TROPHY

B. J. Weldon, manager of the interfraternity basketball tournament, has drawn up the practice and playing schedule for the ten Armour fraternities who will contest each other for the social fraternity championship of the school.

According to the schedule each team will be given one practice date. The Rho Delta Rho's will uncap the proceedings with a practice session on December 11. Four other teams will take the floor before the Christmas Holidays, while the remaining five will take their turns after the vacation period.

The Phi Pi Phi fraternity again looms up as the favorite this year, although their prospects are somewhat less promising. They have held the school championship for eleven consecutive years, winning thereby three trophies which are offered for permanent possession to the fraternity that wins the contest for three consecutive years.

The Phi Pi Phi's have two legs in the fourth trophy that is up for this year's competition.

All games will be played in the school gymnasium. Managers of the teams are requested to note that the basketball paraphernalia will be issued by Coach Krafft at noon on the day that their respective practice schedules are as follows:

- Rho Delta Rho—Dec. 11, 1929.
- Phi Pi Phi—Dec. 12, 1929.
- Sigma Kappa Delta—Dec. 16, 1929.
- Triangle—Dec. 18, 1929.
- Beta Psi—Dec. 19, 1929.
- Phi Kappa Sigma—Jan. 6, 1930.
- Theta Xi—Jan. 8, 1930.
- Delta Tau Delta—Jan. 9, 1930.
- Kappa Delta Tau—Jan. 13, 1930.
- Sigma Alpha Mu—Jan. 15, 1930.

and Sturm are the logical candidates for this job.

Now that interclass basketball is over we look to the interfraternity games to provide their usual surprises.

A. H. J.

Students under 18 years of age at the University of Omaha will be arrested if they are found on the streets of the city after 8 p. m., in accordance with the resolution of the W. C. T. U. of that city.

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