January 17, 1929

Armour Institute of Technology, Chicago, Illinois

Vol. II. No. 15.

#### TECH PLAYS DE KALB ON HOME FLOOR TONIGHT

#### Two Games For Week-End; Second Is With "Y" College

FAVORED TO WIN TODAY'S TILT

The Armour cagemen will again experience a busy week-end when they take to action in two momentum bearing conflicts. The first tilt will be staged at the Armory, 35th and Giles, tonight. DeKalb will serve as guests to the local cagemen. Take on "Y" College

The second tilt will take place at the "Y" College gym and none other than the well-reputed quintet of "Y's" will oppose the Krafftsmen.

There's many a slip 'twixt victory and defeat, as the cagemen learned thus far this season, but they are now determined that the bugaboo of defeat shall not cross their ambitious paths again during the remainder of the season. Now since the Armourites have broken the jinx that has hampered their progress since the Crane College game, they've resolved to turn a new chapter in the book of "Conquests and Flops" and concentrate on the chapters that pertain to the "conquest" idea.

#### Armour Has But One Victory

One victory among a string of defeats evidently proves that the cagemen have had tough going. They simply took the wrong path and as a result found themselves in a furious, rolling sea, and the question "When will we find our way out"? perplexed their minds. Armour, however, finally did find a little light by winning a game, from N. U. at McKinlock, but despite their earnestness, and determination to steer their lacerated vessel out of the rough waters entirely, they again must assume the role of "Jack, the Giant Killer" when they tackle DeKalb and Chicago "Y" Col-

DeKalb Has a Good Record DeKalb will, naturally, seek to add a few more knocks to the already weather-beaten gold and black vessel when they display their wares against | Professor Tallmadge the Armourites this evening. They have chalked up one good victory Aids Town Restoration over Hope College of Michigan and were far less generous in the other conflicts than Armour.

Kalb promise to put up a weighty Course, Fellow A. I. A. of Chicago, tussle. They have defeated Forest Park this season besides winning a few other games. Their victory over Forest Park in itself stamps them as being an exceptionally strong team for the game was played in Forest burg, Va., to its original form, ac-Park's gym where few teams ever succeed in outwitting their hosts.

# Night School Students

ter of night school will be on Thurs- madge is the only Chicagoan. day and Friday nights, January 17 and 18, according to information received from Professor Robert V. I.D.T. Man To Tell Of Perry, Director of Evening Classes. A record enrollment is expected, even exceeding that of this semester. Courses are offered in every department of Engineering and Architec- tative of the Illinois District Tele- quested that a search for him be in- Hendricks was going good by now ture. Tuition varies with the courses graph Company, will speak on "Elecoffered. Some changes in schedules trical Automatic Fire Alarm Signals have been made, among the chief of and How They Are Received at Cenwhich is the announcement that the tral Stations," before the regular ments, and the veil of mystery was the game for Phi Kappa Sigma. In-Architectural classes will be held at meeting of the Fire Protection En-lifted. the Art Institute instead of at the gineering Society to be held tomor-

#### ASSEMBLY YESTERDAY

the subject of the World's Fair to be | Sprinkler Alarm Systems. held in Chicago in 1933. Dr. Albert tion will bring to Chicago.

#### Junior Hop Chairman



ROBERT J. SERSON

#### 100 BIDS SOLD; DANCE SHOULD BE A SUCCESSID.

Bob Serson, the Junior Class Social Chairman, announces that over three hundred tickets for the Junior Dance have been distributed up to the present time. Of these there has been a cash sale of over a hundred bids to date, which portends a successful outcome for the first social their expenses, work during both the and two alternates will be selected event of the new year.

#### At New Bismarck Hotel

the New Bismarck Hotel. The orchestra which will furnish the music working during the Summer vacation is The Chicago Rhythm Kings, an organization of proven popularity and in large demand.

Tickets Still Available

Serson and his committee are bringing their drive to a close today and tomorrow. For those who have not yet obtained their bids, they are available from any member of the various class social committees.

Professor Thomas E. Tallmadge, The Chicago "Y" College, like De- to students in the Architectural and member of the local architectur- ness. al firm of Tallmadge & Watson, has been appointed a member of the commission of architects to advise on the restoration of the city of Williamscording to the Leaflet, published by the Chicago Chapter of the A. I. A.

Four million, five hundred thou-John D. Rockefeller, Jr., to rebuild To Register Jan. 17-18 and remodel the Virginia community back into its colonial atmosphere. Registration for the second semes- members, of whom Professor Tall- failed to find Bramson in Memphis two teams played the next of the

Armour Institute Buildings as before. row morning at 9:30 in the Physics Lecture Room.

This lecture will be the first of several to be given by Mr. O'Brian on Yesterday morning at 10:30 A. M., correlated subjects. The series will the first semester, 1928-29, has been Dr. Allen Albert addressed the stu- cover Automatic Alarm Systems, given out by the Deans' Office and is dent body at a general assembly on Watchmen's Supervisory Systems and published on page two of this issue.

Examinations will start on Saturday, Actual apparatus with which to January 26, and will continue is the assistant of Mr. Rufus Dawes, demonstrate the principle of opera- through Tuesday, January 29. chairman of the World's Fair com- tion of the automatic devices will be For handy reference the schedule mittee. He summarized the work be-shown by Mr. O'Brian in the course as published may be conveniently schedule should report them to the Chun has an older brother, William be left untreated. scribed the benefits that the exposi- cused from classes this hour to at- be posted on the bulletin board after that some manipulation can be made brother. Edmund H. Chun, who is showing the Shaefer method is one scribed the benefits that the exposi- cused from classes this hour to at- be posted on the bulletin board after that some manipulation can be made brother. Edmund H. Chun, who is showing the Shaefer method is one today. tend the meeting.

### Survey Shows 45% Work During Session

The Deans' office of the Armour Institute of Technology has completed a survey for the purpose of determining the percentage of students earning money to defray their expenses, in whole or in part, while attending college.

Returns were obtained from 814 students. The total registration for the semester is 831. The difference of 17 represents special students and students who left before the survey was started.

The survey shows:

Students who earn all their expenses..... 31 Students who earn part of their expenses by working during the Summer vacation and college session....340 41.8% Students who earn part of their expenses by working during the Summer vacation only .....352

Students who earn part of their expenses by working during the college session only E. Students who earn no part of their ex-

Presumably those who earn all of part of their expenses, either by approximately two weeks. or during the regular college session or both, is 730, or 89.7%.

expenses are connected with the in the preceding exercise. The com-Commonwealth Edison Company (as petitor selected will be required to substation operators) or with the II- take examinations at the direction of linois Bell Telephone Company.

#### Lost Arch. Returns; Couldn't Cash Checks

Leo Bramson, architectural student, who so mysteriously disappeared in the South last week, is back Rho and Phi Kappa Sigma in the gym Lecturer in History of Architecture on the job. The "vanishing" which marked the opening of inter-frater-

> and his bride, the former Anne Trav- score of 24-17. is, departed on their trip through the when it arrived. He had found an lovertime, neither of them scoring. stituted.

The schedule of examinations for

# Senior Architects In

The first preliminary exercise for SCHOOL the 22nd Paris Prize of the Society of Beaux-Arts Architects will be have entered the competition. Five competitors and two alternates will be selected from this exercise to enter the second preliminary exercise with twenty exempted competitors.

The first preliminary exercise requires the solution of a problem in elementary design, either exterior or interior, completely executed in training. twelve consecutive hours. The second preliminary will require the solution of a problem in planning a large building or group of buildings, completely executed in twenty-four consecutive hours. Eight competitors will be selected from this last exercise to enter the first stage of the finals.

The final exercise is divided into 43.2% two stages, (a) The exercise for the preliminary sketch, and (b) The final development and rendering of this sketch. The final preliminary sketch 0.9% is open only to the eight competitors selected in the second preliminary, and will require the solution of a ed to the point of a clear interpreta-Total, 814 100.0% tion in 36 consecutive hours.

From this exercise four finalists Summer vacation and the college ses- for the final competition, which will sion. The total number of students require the development and comwho work during the college session plete execution of the solution of the The Informal will take place to- is 378, or 46.5%. The total number problem presented in the final premorrow night in the Dutch Room of of students who are earning all or liminary sketch within a period of

> One competitor and one alternate will be selected in the final competition. The jury awarded \$150 to by Kenneth Sawyer Goodman. Most of those who earn all their each conscientiously executed design the Committee on the Paris Prize in (Continued on page 2, column 3)

### Overtime Periods Feature Fraternity Game

was featured in local papers for days nity basketball. It was a game of was due entirely to his own careless- thrills and spills, with two overtime periods before the Phi Kaps finally As he tells the story himself, he emerged victorious, winning by a

The score was 14-14 at the end of South with "hundreds in credit, but the game, which of course demanded | not a great deal in cash." They got an overtime. After two minutes of as far as Memphis, and there found the overtime period had elapsed it necessary to cash a check to obtain Ackerman of the Rho Delts sunk a some cash for current necessities. long shot giving his team the lead, sand dollars has been donated by Having failed to bring the proper but fate must have been against him identification, the banks refused to for on the next play he fouled Hurhonor Bramson's checks. He tele- ley of the Phi Kaps and the latter grahed home for some money, which sunk his two gift tosses, again mak-The commission consists of eight was immediately forwarded, but ing the score even at 16 apiece. The

obliging friend who took his note, and The second overtime period openabled him to proceed to Havana. ened with a bang. Hendricks got the The money in the mean while was re- jump, followed the ball up and talturned to his parents, who interpret-lied two points for the Phi Kaps. On Fire Alarm Systems ed the return of the money as only the next jump Williams of the Phi parents will. They notfied the police Kaps, not to be outdone by his team-H. L. O'Brian, Special Represen- that their son had vanished, and re- mate, sunk a beautiful long shot, but and on the next two jumps he scored Bramson, on arriving in Havana, two baskets bringing the second overinformed his parents of his move- time period to a close and winning

(Continued on page 4, column 2)

at 8:30, and the schedule continuing

throughout the day. Only two ex-

amination periods are posted for Sat-

to correct the difficulty.

EXAM. SCHEDULE PUBLISHED

urday.

# Beaux-Arts Contest RXTR

#### The game between the Rho Delta Mabel Sykes Awarded Senior Photo Contract

Mabel Sykes' Studios last Monday, er receiving his ensign's commission. very shortly.

It is imperative that the graduates adhere to the engagements assigned to them since the pictures must be ready in time to appear in the Cycle.

## Chum'25, Invents Radio

cently crashed into newspaper print tials of less than 4800 voits. In these when he made known his invention cases the current is sufficiently high of a new device which subjects radio to cause paralysis of the heart. The tubes to simultaneous electrical and only remedy is to call a physician mechanical tests, simulating the se- who will administer a certain fluid verest usage. Chun is a Radio Engi- to the heart in an effort to restore neer with the Arcturus Radio Com-| normal conditions. pany, manufacturers of A. C. Tubes.

The final examinations are two hours long each, the first beginning ed by an electrical cam, while at the ased. same time the tubes are turned on Students who find conflicts in the arrangement.

# ICIVIL'S AERONAUTICS OPTION IS REOUREMENTS

judged January 17, 1929. The sen- More Thorough Training To Be Given In Design for architectural students of Armour Theory; Leads To Month's Flying At Naval Base, 8 At Pensacola

#### "PRACTICAL FLYING" IS ON NEW CURRICULUM

The Aeronautical Option in the senior year of the Civil Engineering course has been remodeled so as to accommodate the Ground School requirements for the Naval Aviation

To Raise Requirements

This option covers the same subjects as the Ground School course being given to the night school students at the present time, and is, in addition, much more comprehensive with respect to theory, design, etc. Commencing next year, the Navy requirements will be raised to a standard commensurate with the new Civil Aeronautics Option, which condition will probably limit those who qualify to upperclassmen in engineering colleges, or to graduates. The night school course will be adjusted to include the new requirements.

#### THEATRE PARTY DATE CHANGED: NOW ON TUESDAY

Because of a conflict with the Junior Informal, the date for the theatre party to the Goodman Theatre has been changed from Friday night, January 18 to Tuesday night, Jan. uary 22. The play to be presented is "Six Characters in Search of an Author," Pirandelio's distinguished "Comedy in the Making." This is the first Chicago appearance of the work and is conceded to be one of the most brilliant plays of the century. It will be staged by Thomas Wood Stevens. The main play will be preceded by "The Game of Chess"

The party will be sponsored by Prof. Hendricks of the English department. This will give students a chance to see the regular performance at prices reduced one half. All those who have not signed the sheet on the bulletin board and wish to go may join the party by meeting them in front of the theatre entrance just before the start of the performance.

committee awarded the contract to is then the option of the student, aftaccording to an announcement by R. to stay a year with the fleet at \$2700 F. Stellar, '29, C. E., chairman. As per year. yet the terms of the contract have not been disclosed, but will be an Aviation training, is fifteen men to nounced by Stellar at a class meet- | be chosen from both day and night ing to be held tomorrow. The com- school classes. mittee is at work preparing lists of seniors and the dates they are to appear for a sitting. These lists will Dr. McNamara laks be posted on the main bulletin board

# Tube Testing Device

low a junior in the Civil Department, the north wall of the dynamo lab.

Night School Course Is One Semester The first semester Ground School

subjects will be given next semester at night school in conjunction with the regular second-term subjects. These will be taught on alternate nights, four nights a week of two hours each, making it possible to complete the full course in one semester and thus qualify for the training.

The second semester options in the Civil course are Meteorology, and Avigation, given by Professor J. R. Griffith; Airplane Design, taught by Professor M. B. Wells; Aeronautical Engines, by Professor D. C. Roesch; Practical Flying, by Professor Walter Hendricks, and by Professor Charles P. Holmes. The foregoing subjects are substituted for Public Utility Economics, Steam Power Plants, Bacteriology, and Advanced Structural Design, which are in the straight Civil Course.

Training Valued at \$40,000 The United States Government is estimated as investing from \$35,000 to \$40,000 in the training of each man chosen. This training includes one month of preliminary flying at the Great Lakes Naval Training Base. after which there will be eight months intensive training at Pensacola, with a compensation of \$84.00 per month.

Upon the completion of this trainling, it will be necessary to pass successfully an examination in order to The Senior Class photography receive the commission as ensign. It

The quota from Armour, for the

# First Aid To Semiors

Last Thursday thirty members of the Senior Electrical class listened to Dr. John F. McNamara, Institute physician, discuss the method of reviving persons apparently dead from electrical shock

Dr. McNamara divided all the cases of shocks into two groups. The Herbert H. Chun, '25, E. E., re- | first, he said, are those due to poten-

The other case, continued Doctor Tubes that pass the usual mechan- McNamara, was that of persons being ical and electrical inspection fre-shocked by potentials above 4800 quently go bad under the strain of volts. These are not so serious as shipment and rough electrical usage. only the respiratory system ceases to The mechanism designed by Chun function. In this case the Shaefer consists of a special test rack vibrat- method of artificial respiration is

Dr. McNamara then discussed elecand off by an automatic switching trical burns and their seriousness. stating that no electrical burn should

ing done by the committee and oth- of his lecture. Sophomore, junior, clipped out of the second page and Deans' Office or the instructor in Hoy Chun, who graduated in 1917 This talk was arranged at the reers interested in the work, and de- and senior Fire Protects will be ex- saved. However, the schedule will charge of the course immediately, so from the C. E. course, and a younger quest of Professor Snow. A placent

#### ARMOUR TECH NEWS

Student Publication of the ARMOUR INSTITUTE OF TECHNOLOGY CHICAGO, ILLINOIS Published Weekly During the College Year

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<u> </u>		
Vol. II.	JANUARY 17, 1929	

#### "Honoraries" or "Cliques"?

Nothing is more disgusting to a fair-minded person than "petty politics" or "favoritism." It is the essence of injustice. We find it practiced widely; it commonly occurs in business, and is a by-word among certain types of public men. We least expect to find such a practice prevalent in an honorary fraternity. However, no one can deny, not even the members themselves, that personal feelings, prejudices, and petty indifferences have played a leading part in the choice of the membership of the so-called honorary fraternities at Armour Tech.

That this fact is indisputable is witnessed by the following list. It is a list of Seniors, and their averages, constituting approximately the upper quarter of the Senior class. To illustrate our point, we have marked with an asterisk those men on the list who are members of Tau Beta Pi, national honorary engineering fraternity. We have chosen Tau Beta Pi for this purpose because membership in it is considered the highest honor that an engineering student can attain: Here is the list, and the asterisks:

1. Jacobson96.75	20. Zimmerman92.6
2. Hommes (*)95.4	21. Scully92.4
3. Kittler (*)95.3	22. Mohr92.4
4. Guenther (*)94.9	23. Yount92.2
5. Golber94.8	24. Dozois (*)92.1
6. Ewing (*)94.6	25. Farrell92.1
7. Michelson93.7	26. Johnson, R. E92.1
8. Jacob93.7	27. Juergensen (*)92.1
9. Lutz (*)93.6	28. Stabovitz (*)92.1
10. Goranson (*)93.4	29. Theede (*)92.1
11. Ong (*)93.2	30. Stellar (*)91.8
12. Manz (*)93.0	31. Setterberg91.6
13. Olson93.0	32. Smith, G. H91.6
14. Christiansen (*)92.9	33. Meyer (*)91.5
15. Nissen (*)92.8	34. McCloska91.1
16. Bernhard (*)92.7	35. McDonald90.8
17. Montgomery92.6	36. Forss90.3
18. Levin92.6	37. Lamb90.3
19. Barce92.6	38. Rezac90.3
No. or an analysis of the second seco	

Now it is our contention that, because personal prejudice and favoritism has entered in, the Armour Chapter of Tau Beta Pi no longer serves the purpose for which it Go Boom." was chartered, namely to bestow honor upon engineering students who deserve to be honored, and thereby promote engineering education. The above list shows just a scattering of the leading men of the class as members. Many have been held out because of their creed Still others, who have better scholastic standing than certain of the members, and a far better record of activities than most of the members, have, for some unaccountable | physics smiling. reason, failed to "make" Tau Bate.

It is Tau Beta Pi's business, and no one else's, as to whom it wants for its membership. But here is a phase of the question worth consideration. To encourage high scholarship at Armour, some system should exist whereby meritorious scholarship shall be recognized and honored. down in the profs.' lunchroom and ordered: Bacon and If Tau Beta Pi doesn't fill the bill, then some organiza-leggs; the eggs not too hard and the bacon not too crisp. tion or some system should be established which will.

What has been said about Tau Beta Pi at Armour ap- without too much ice. plies equally to the departmental honoraries. They have subjected themselves to the same criticism, and in so doing, have likewise threatened to undermine the respect

in which their keys have always been held. a member of several of the societies under discussion, is grading, or perhaps degrading physics reports that he endeavoring to take the viewpoint of an outsider, one forgot to meet his 8:80 class. who is neither a student nor a member, but a disinterested spectator who's only motive is to see justice done.

-J. H.

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

### Jes' Musim'

Guess I'm the sorta person likes ta foller fortune's game with the Armour Tech News for the Leastways, punchin' cows, I thought, was gettin' kinda last semester. Good evidence of the to put in proper form for the News. last June, have been testing cables

So I buckled on my fav'rite gun, an' saddled up my hoss not it is read. Everybody reads it. mour last spring and went into the Dec. 17 they started working in the Then flipped a coin, an' my path, I swore, would rest | Sometimes a little item on the inside upon the toss.

Lady Luck said south, I reckon, so I hit for the Rio noticed. However, the fact that they Grande.

I said, 'so long' to the ol' Bar X an' rode off acrost the lication,

sand. wasn't ridin' fer m' health, ner seekin' yaller gold Jist went off fer the kick thet comes from leavin' the down here.

common fold. drifted roun' from town ta town layin' drowsin' 'neath there is enough news existing around tha sun.

A takin' in the sights ta see an' havin' lots a fun. Met up with a greaser bandit—narful clumsy clod; Pulled a gun an' asked fer money; now he's layin'

neath tha sod. An' then there was thet hombre tried ta carve me with a knife--

He shouldn't done thet; now he's parted from this life. Yuh see, thet's how it's allus was—cause I'm a peaceful not conceive of a school with an en-

But somehow all this trouble jest couldn't pass me by. fully without a school paper. It cern) But down in ol' San Pedro came tha biggest jolt of all tainly should be continued. Without When a pair o' black eyes cast a look an' I simply the NEWS, few students would know hadda fall.

only seen her jest thet once-dunno if she thinks o' me, plishing. But thet smile got locked up in my heart, an' I went an' lost tha key.

---West-Ern-Er.

First Senior: Well, I guess I'll go to Economics today. Second Big Stiff: I'd better go with you. You'll prob-—Freddie.

It was scarcely half past ten when the rather fiercelooking father of the girl entered the parlor where the Semior Architects In timid student was holding forth. The father had his watch in his hand.

"Young man," he said brusquely, "do you know what time it is?"

"Y-yes s-s-sir." He scrambled to his feet. "I-I-I metry, Algebra, Analytics, Descripwas just going to leave."

After he had made his rapid exit, the father turned spective, Theory of Stresses, Conto the girl in surprise and said: "What's the matter with that fellow? My watch ran

down and I wanted to know the right time." Professor Wilcox threw his physics lecture class into a Scholarship.

roar by intoning in the simplest way, "Once there was a mechanics prof. with an idea-"

#### Eternity

Here's to our profs. Long may they live! Even as long as The assignments they give.

—A. J. Just a Dirty Story

Is your roommate dead? Local Brother: That's not crepe, that's his towel.

This reminds us of the time when we asked a chap if he had enjoyed his freshman period at college and he said that those were the happiest years of his life.

Visiting Brother: Why the black crepe on the door?

Acrobatic Mutton Diner: An order of lamb chops, and have the chops

—F.B.A. Waiter: Yes, sir. Which way?

COLLEGE PROFESSOR: A man paid to study sleeping conditions among students.

#### Line Forms to the Right

Professor: Frankly, madam, your son lacks brains. Mrs. Gotbucks: Get them for him immediately and send me the bill. Nothing shall stand in the way of my son's education. ---A. J.

Last Saturday night the new Cascade Tunnel was dedicated; and being a marvelous engineering feat, we had the program tuned in on the radio. Imagine our surprise when the first song on the program was "I Faw Down and

#### Try This at Home Tonight

Small Boy: Pop, I can do something you can't do. Father: Yes? What is it? Small Boy: Grow.

May we define a hypocrite as a fellow that walks into

First Financier: My office boy whistles when he works. Second Genius: Mine only whistles.

They tell this one on one of the new profs. He sat Buttered toast without too much butter and iced tea

The waitress smiled sweetly and asked "Is there any particular design that you want on the plates, sir?"

Speaking of the mythical absent-minded professors, In constructing this article, the writer, though himself last Thursday Prof. Colvert was taking such a joy in

> Ohhhh A week and three days—a week and three days. Ohhhh. —Al. Auerbach.

### The Inquiring Reporter

Question: What do you think of Letterbox: the Armour Tech News and do you think it should be continued next somester?

means. I have been very well pleased value of a publication is whether or page appears too insignificant to be are read proves the worth of the pub-

pretty good. They sure needed one

L. Gerstel, '29, E. E.: I don't think the school for a weekly. I think the students would look forward more to reading it if it were a semi-monthly. I look forward to reading it every Thursday morning myself, but when I do read it, I don't find enough of what I call real news.

Man J. Schinke, '32, E. E.: I canrollment of 800 functioning successwhat their school mates were accom-

B. R. Schofield, '29, E. E.: I think the Armour Tech News is a very good college newspaper. I think it should be continued.

C. R. Southwick, '30, E. E.: I think it's a fine paper. I know I learned a lot out of it that I wouldn't have known otherwise.

## Beaux-Arts Contest

(Continued from page 1) Mechanics, Plane and Spherical Geotive Geometry, Stereotomy, Perstruction, Freehand Drawing, Model- C ing, and General History, and after S successfully passing these examinations, will be awarded the Paris Prize

The Paris Prize Scholar will be sent abroad for two and a half years to pursue his architectural studies both in the "First Class" at the Ecole Nationale des Beaux-Arts in Paris, and in travel. He will be required to sail from this country on or about September 15, 1929, and to remain continuously abroad until April, 1932, and during this period will receive a purse of \$3,600 for his transportation and maintenance. During the period of his scholarship he will S be required to render at least ten 🗓 regular projets in the "First Class" | E of this Institution. On the termina- P tion of his scholarship and return to 3 this country, the Paris Prize scholar  $|\mathbf{E}|$ will be required to hold at the Beaux- E Arts Institute of Design Building, a public exhibition of his work presented at the Ecole Nationale des Beaux-Arts and sketches executed 8:30-10:20 during his travels.

The five final sets of drawings of the 21st Paris Prize Competition that | 10:30-12:20 of last year, will be exhibited at the Qualitative Chemistry ...... These drawings are being Quantitative Chem. (Soph. Ch.E.)..... held on exhibition throughout the United States and Canada.

#### SCHOOL CALENDAR

Thursday, Jan. 17:

Call for Indoor Track. Registration at Night School, 6:30 P. M.

Rifle Club Match with Crane

Varsity Basketball, DeKalb Normal at Armour. Friday, Jan. 18:

Senior Class Meeting, 10:30 A

Junior Dance at New Bismarck

Registration at Night School 6:30 P. M. Saturday, Jan. 19:

Varsity Basketball, Armour at Y-College.

Monday, Jan. 21: A. I. E. E. Meeting, 11:30 A.M. Interfraternity Basketball, 5:00 P. M.

Tuesday, Jan. 22: Physics Lab closes for semester. Theatre Party at Goodman Theatre, \$:00 P. M. Wednesday, Jan. 23:

Inter-Honorary Smoker at T. X. House. Interfraternity Basketball, Semi

#### LETTER-BOX

Professor J. C. Peebles: By all mine if they are commercially suit- use. able for use. Recently ran across

employ of the A. T. & T. Co. He Chicago Testroom for the A. T. & T. started in the Chicago Testroom, Co. They are, at present, trouble later attended the training course clerks, but will be advanced within a given by the company at Waukegan, few weeks to more responsible posiand is now working from 12 to 7 A. tions in connection with the testing C. J. Griffin, '30, E. E.: I think it's M. at Danville, Ill. He says "Howdy" and lining up of long lines telephone to the gang at A. I. T.

Frank J. Pischke, E. E., '28, has

been in the Chicago Testroom for about three months. He worked days until about a week age and is now working from 7 P. M. to 12 midnight. I am employed nights in the Long | He is regularly employed to measure Lines Dept. of the A. T. & T. Co. to some of the New York cables and to measure telephone circuits to deter-line them up suitable for commercial

M. J. A. Sweeney, and C. P. Scogthe following, which you might want | gin, both E. E., '30, who left school Edward Esiler, M. E., '31, left Ar- for the Ill. Bell Telephone Co. On circuits.

B. Dudley, E. E., '30.

#### FINAL EXAMINATIONS - FIRST SEMESTER 1928-1929

#### Saturday, January 26

8:30-10:20	INSTRUCTORS PLACE
Mechanics of Materials & Graphics  Applied Mechanics (Arch.)	
Electrical Measurements (Soph E.E.) Stresses in Framed Structures	Richardson D-Mission
Precision of Measurements	Doubt Colvert Gymnasium Thompson
Descriptive Geometry	Foster Seegrist Drafting Room, Sear 5th Fl., Main Bid

3	~~~	O O SI T TO STATE STATE STATE STATES
Monday, J	anuary 28	<b>4</b>
8:30-10:20		
College Algebra	•	
Review Algebra	Math. Instructors .	. Gymnasium
j		
Organic Chemistry (F.P.E.& Ch.E.)	Freud	D-Mission
Thermdynamics (Jr. E.E.)	Nachman	
Practical Astronomy	Penn	· ·
Chem. Engineering (Juniors only)	McCormack	
Specifications & Estimates		
0:30-12:20		- as agreem as a residual and state to daily distribution
Calculus I		
Calculus II	Moth Instructors	Cimnonism
Analytical Geometry	mann. madateurs	Cymnasium
A. C. Machinery	Was a so to be a pa	Dimin For Day
Applied Electro-Chemistry	Freeman	Ŧ
lerodynamics	Bentley	
leat Power Engineering (Sen.M.E.).	Wells	
:10-3:00	Geonardi	A-ween. Men.
Plane Trigonometry		
ane rigonomenty	Math Instruction	Cremanacium
applications of Trigonometry	Math. Instructors	Gymnasiem
sphucamons or regonomemy	<b>TT</b> 11 12 12 12 12 12 12 12 12 12 12 12 12	F - *
General Construction	Wilmanns	
Economics of Engin'ring (Sen.E.E.)	Freeman	
Strength of Materials (C.E.)	Phillips	
Machine Design (Junior E.E.)	Swineford & Winst	
Electricity (Senior F.P.E.)	Nash	
Physical Chemistry	Freud	C—Chapin Hall
3:10-5:00	* * * 0 %# * * * * * * * * * * * * * * * * * *	
Engineering Mechanics I & II	Leigh & Mangold	· <del>**</del> ·
Electric Power Plants	Snew	rnysics Lect.km.
Tuesday, Ja	anuary 29	

#### Colvert & Thompso:Gymnasium Physics (Arch) .....

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1:10-3:00

Higher Surveying .....

Physics I & II.....

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#### Swimmers Face Crane | Cable Manufacture In Opening Meet Of Schedule Wednesday

# Be Backbone of Team

The opening meet on the schedule of the swimming team will be with Crane Junior College next Wednesand three other letter men of last E. E. year, Strauch, McLane, Dittmer, are expected to keep the Crane men worried, while the new members of the team, Vander Velde, Filmer, McInerney, Brown, and Stempel, are expected to add to Armour's possibilities.

The meet is due to start at 3:30 .P. M. Zolad is manager of the organization.

#### Faculty Biographies Soon To Be Featured

Starting next issue, a series of short, informal biographies of memrun, a new one appearing every week.

The first article will be on Dr. H. M. Raymond, and is being prepared by T. J. Leardi, '29, C. E. A picture siderable, as much as four pounds of the man will appear with each ar-

The purpose of the articles is to provide the student with a more thorough acquaintance of the faculty speed. The designer is Vincent Burmembers, many of whom are nationally prominent in their respective man of this city. fields.

The issues next semester will appear as usual each Thursday morning. No issue will be brought out during examination week, but an issue will be published on the Monday of the first week of the new semester, which day falls on February 4. Second semester subscriptions will be received on that day, which is also Registration day.

#### Student Jobs In 1922 Different Than Today

The recent questionnaire filled out. by the students as to the amount of tuition and expenses earned brings to mind a similar questioning filled out by the student body in 1922. A total of 626 men answered the first questionnaire. The information was printed in the May, 1922, number of the Engineer, and appeared in the "College Notes" section.

Nineteen students recorded themselves as not being citizens of the United States. About one half of the students worked during the summer, the number of men performing work for which they received pay being 326. One stated that he paid an income tax. (Prohibition had been in effect some two years then.)

Among the various jobs held by students were dairy helpers, farmers, magicians, barbers, musicians, painters, oiler on lake boats, social workers, boiler maker, firemen, engineering, waiters, chauffeurs, bricklayers, radio operators, and various other jobs. One man was employed as a fire insurance inspector; today there are prbably 120 students employed in the summer in this work. There were more men listed as working as farmers during the summer than engineers. The leading profession was salesmanship, with 54; next came drafting with 41.

#### NOTICE

The last laboratory period in Physics for the semester will be Jan. 22, 1929, according to Prof. Doubt, head of the Physics laboratory department. All reports to be credited on this semester's work must be handed in on or before Thursday noon, January 24, 1929.

#### Stebbins, Zwart, Frost, New Campus Club Heads

Herbert H. Stebbins, '30, M. E., was elected president of the Campus Club at an election held last Friday. Maurice Zwart, '29, M. E., was made vice-president, while Alexander J. Frost, '30, M. E., became Secretary. These men will be officially installed next week.

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# On Screen For A.I.E.E.

A time-reel film showing the manufacture and installation of cables, Expect Four Lettermen To furnished by the Okonite Cable Company will be featured at the A. I. E. E. meeting in Science Hall Monday at 11:30 A. M.

Two student papers will also be day, January 16. Walter Trognitz, 29, E. E., and "Electrical Industrial vacated by J. E. Ransel, 30. Frank '30, who is captain of the mermen, Trucks," by Ernest Michelson, '29, Aste, '30, F. P. E., was elected to the

> semester all members are expected to merville, '30. be present to hear several important reports.

#### Improved Airplane Tested At Newark P. E., on January 11, 1929.

An interesting test of an original airplane design took place last Saturday at the Newark, N. J., municipal airport. The plane tested was a twenty passenger monoplane powered with two 650 H. P. Curtis engines. The two motors were paired under one cowling; and the cabin, 11 feet bers of the faculty and other men by 20 feet, is placed directly behind connected with the Institute will be them, the entire fuselage being built as a typical wing section of extreme chord, so as to minimize its drag. The lift of this type of body is conper square foot, so that the landing speed is reduced 12 percent. Two advantages were thus obtained, ample cabin space and low landing nelli, who was financed by Paul Chap-

> THE PLACE TO EAT TRIANON CAFE PLANOS BROS., Props.

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J. M. McAlear, '31, M. E., has just returned from a two weeks' confinement in the Mercy Hospital, where he has been ill with the flu. J. R. McLane, '31, Arch., is on the convalescent list after being ill with the

Delta Tau Delta

In recent elections: Harry Nissen, presented. These are "Electric Drives | '29, C. E., was elected to the office of for Automobiles," by Edward Gross, Recording Secretary, this office was office of Corresponding Secretary, As this is the last meeting of the this office was vacated by C. F. Som-

Phi Pi Phi

Phi Pi Phi wishes to announce the initiation of Edward Erland, '30, F

Thete Xi

Theta Xi will have an Alumni Smoker at the Chapter House Thursday night, January 24, 1929.

Rho Delta Rho

Rho Delta Rho inaugurated the new year with a dance at the Chapter House January 4, 1929. The house was decorated by the architects in a modernistic manner, flashes of color supplying the predominating effects.

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#### Taxing the Railroads

The railroads of the United States at present pay approximately a million dollars a day in taxes. In many parts of the country railway taxes form the principal support of local governments and make possible good schools, hard roads and many other public improvements which might otherwise be practically unobtainable.

Although railway taxes have increased nearly 300 per cent since 1911 and at present are approximately equal to railway dividends, the railroads have not taken the lead in complaining about tax burdens, because they realize that taxes have increased largely in other lines of business also. The railroads do claim, however, that it is inconsistent to expect reductions in railway rates while taxes and other expenses continue high. They point out further that if reductions in rates are enforced without accompanying reductions in taxes and other expenses, the only alternatives are bankruptcy for many railroads or a deterioration in the quality of railway service.

The railroads, in common with other businesses, must pay their taxes out of their current receipts. This means that every patron who buys a ticket or pays a freight bill is helping to pay railway taxes. Since taxes represent the expense of government, therefore, one of the sound ways to reduce railway rates is to reduce governmental expenses and, as a result, railway taxes.

Not all railway taxes are strictly comparable with taxes in other lines of business. Railroads which received grants of land from the government in pioneer days sometimes had to enter into unusual tax arrangements in return. Besides providing transportation required by the government at reduced rates, the Illinois Central System, for example, has to pay into the treasury of Illinois in perpetuity, in lieu of other taxes, 7 per cent of the gross earnings of its 705% miles of charter lines. This charter tax is now in excess of what ordinary taxes would be, and the railroad is, in effect, paying for the original land grant at high prices, with interest besides.

Constructive criticism and suggestions are invited.

> L. A. DOWNS, President, Illinois Central System.

CHICAGO, January 15, 1929.

(An essay contest for college and university students in Illinois Central System territory is now in progress. It will close February 28. For details write L. A. Downs, President, Illinois Central Sys-

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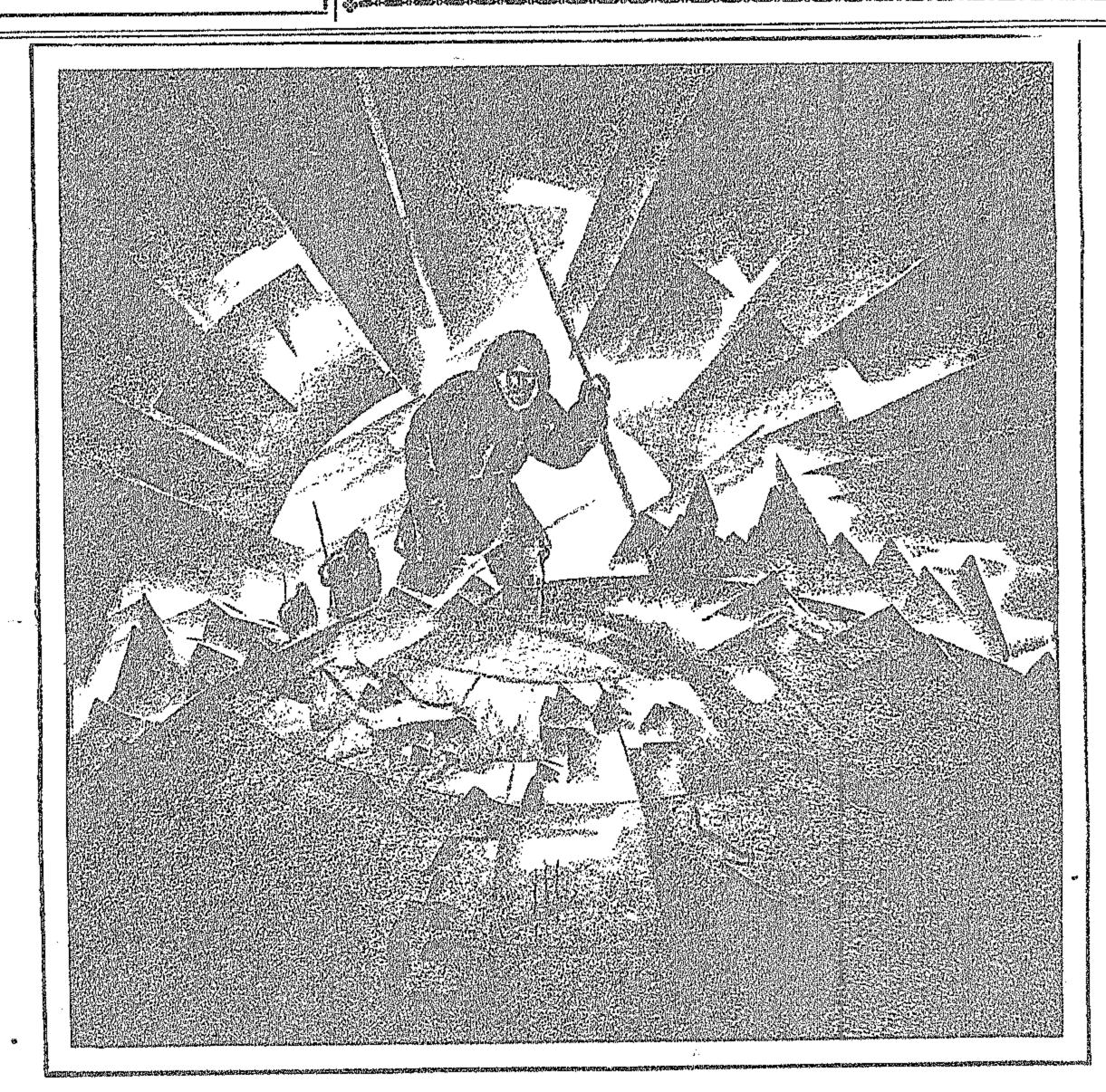
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#### TECH OUTPLAYS M'KINLOCK BY 27 TO 18 SCORE

#### Engineers Vanquish Foes, Game Shows Good Teamwork

cagemen defeated Northwestern University at the Mc-Kinlock Campus at 122nd Field Artillery Saturday afternoon by a score of 27-18 in a game that saw the score always close but without any doubt of Armour's superiority.

when Augustine dribbled through for a basket, until Robin sank a short shot just before the final gun, the Tech five held the advantage. At half time the Engineers held the long end of a 10-8 score. A counter attack during the second half by Manz, Simpson and Augustine again increased the Tech advantage, which never again was threatened.

Many Personals Made

Individual stars were lacking and many personals were made by the basketeers. Boyer and Kuehnert of N. U. and Rutkowski and Goodheart were forced to leave the game for undue roughness. The leave of the baskets against three shots through while Rossing and Carlson showed two Purple basketeers forced N. U. the hoop by Barber of the Delts. to play with four men in the final Fee, Pillatte, Serson, Shirmer, and ward position proved himself a cap- Central 36. minutes of the game.

First Half Close

Armour started the scoring when Rutkowski sank a long shot which nan, Holin, and Baldwin. was followed by an under-the-basket shot by Cook tying the score. With encounter for the Phi Kaps, and the the lead whereupon Armour peppered are scheduled for Monday, Jan. 21. the back-board with shots but with no success, Simpson put Armour one point behind with a field goal. Here the Tech's lost the services of Rutkowski who went out on four personals-Goodheart going in. During the closing minutes of the first half Augustine contributed a field goal and a free throw which put Armour in the lead 10-8.

At the opening of the second half Goodheart made good on two free throws. Moffic scored a two pointer followed with a field goal and a free throw respectively.

Later Armour acquired a lead of 22-14 on some pretty passwork involving Rossing and Simpson with Manz scoring a field goal and Augustine dribbling the length of the

#### Gummen Arrange Fray With Crane Tech, 3 P.M.

The Armour Rifle Team will attempt to uphold their marksmanship honors at 3 o'clock this afternoon at the 124th Regiment Armory in a match against Crane Tech. Since the opposing team rated very highly last year in the Hearst Trophy shoot, a victory from Crane would be very encouraging to the Rifle Club in bringing their share of the glory to Armour.

The Club has also been fortunate in securing a postal rifle match with a team composed of marksmanship enthusiasts who are members of the western (McKinlock Campus), 18. New York Stock Exchange. This match will be held some time next week.

On Saturday, Feb. 16, the team shoot a shoulder-to-shoulder match with Culver Military Academy cadets. The team will be guests of the Academy for the day.

### Overtime Periods Fea- Worth Central Hands ture Fraternity Game

(Continued from page 1) cidently, Hendricks was high point man for the winners with ten units to his credit.

Ernie Michelson of the Rho Delta Rho team finished with nine points chalked on his board. It was his basket in the last minute of the first overtime period that threw the game Into a second extension of time.

Hendricks, Winkler, and Williams made up the winning team, while From the middle of the first half Michelson, Bosches, Ackerman, Klein, welcomed the victory with a wild dis-Coopermann, and Cannell comprised play of yells. the scrappy losers. The contest was one of the most exciting basketball games ever waged on the gymnasium

#### THETA XI BEATS DELTA TAU DELTA

ty of excitement with not a single moment in it that could really be favor North Central. called dull. Theta Xi won the game from the Delta Tau Delta aggregation, the score being 21-13.

Rowley comprised the winning five, able captain by his expert direction their enemies consisting of these of the game. Robin shared the spot-Delts: Stempel, Barber, Malm, Bren- light with a few flashy plays. Good-

The S. K. D.'s will offer the next was in excellent form, and should the score 5-5 Boyer sank a beauty far-famed Phi Pi athletes will meet from the side lines putting N. U. in the Theta Xi five. Both these games Phi Kappas Troumce

floor for a short shot.

by scoring 3 points for N. U. but The affair was very one-sided, the went out on 4 personals. In the clos- Phi Kaps leading by a score of 15 to ing minutes of the game Armour 0 at the end of the half and 30 to 4 gained a more sizeable margin when at the close of the game. Simpson and Robin broke through for short shots.

Armour proved superior in all did their best to stem the attack. angles of the game-especially being effective from the free throw for N. U. and Simpson and Augustine line while N. U. missed one throw after another. Moffic proved to be the best performer for N. U. playing guard and scoring 6 points. Box

9	score:			A
	Armour—	$\mathbf{B}.$	F.	<b>P.</b>
Contraction of the Contraction o	Manz, rf	2	3	3
	Carlson, rf		0	0
	Robin, rf		0	1
ti god	Simpson, If		1	2
9.00	Ott, If		0	0
	Rossing, c		1	1.
	Augustine, rg		2	3
	Rutkowski, lg		0	4
,	Goodheart, lg		2	4
,	, <del>**</del>	<del></del>	-	
1	Total,	9	9	18
•	N. U.—	B.	F.	P.
t	Boyer, rf	1	0	4
2	Kuehnert, lf	1	2	4
-	Cook, c		1	1
_	Moffic, rg	2	2	2
<b>-</b>	Richert, lg	0	1	1
	Engel, rg		0	0
9			4	
Ω	Total,		6	12
p	Final score: Armo	ur	27, Nor	th.
_		·		

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# Tech Bad End; 36-29

game with North Central College, Tech, opened the team's 1929 athletic program. The game was played on the opponents' floor, which partly accounts for the final unfavorable result for the local basketeers.

North Central Band Plays The gayly uniformed 20-piece band Larkin, Wilson, Smith, Hurley, of N. C. College led a large crowd of follows: rooters in lending moral aid to the lenemy five. The crowd hilariously

Armour Late in Scoring

The score after the first quarter stood 15-2 in favor of N. C., since it took all that time for the Armour quintet to become accustomed to the narrow floor and dark backgrounds. | mour. Late in the half, A. I. T., started to The second game, while not as crawl up by virtue of neat shots from hair-raising as the first, offered plen- | Manz and Augustine, and two from King Simpson. The half ended 19-10,

Second Half More Exciting The second half indicated that Armour had found itself. Simpson con-Rowley of the T. X.'s scored four tinued to star with four more ringers some neat playing. Manz at the forheart, playing his first varsity game,

# Campus Club, 30 to 4

Phi Kappa Sigma baskeball team Tech Superior in All Angles of Game gave the Campus Club their second Kuehnert reduced the Tech lead | defeat of the season last Thursday.

Hurley and Hendricks led the assault while Kovarick and Juergensen

|Stagg Wakes First Call As Indoor Season Opens

The indoor track season has op-A closely contested basketball ened at the University of Chicago Bartlett gym with Coach A. A. ending in a 36-29 loss for Armour Stagg, Jr., making the first call for candidates this week. There will be practice every afternoon. Veterans back on the team this season are Captain Kara, Sturm, Smith, Paul, Timmermans, Iverson, and Fox.

> The tentative schedule for the indoor track meets this season is as

February 20, Triangular Meet; Crane, Chicago Normal, and Armour, at Chicago Normal.

March 2, Crane at Armour (Bartlett gym).

March 12, Chicago Normal at Armour (Bartlett gym).

Tentative; Sears Roebuck at Ar-

have no trouble in hanging onto his

Danier of North Central was highpoint man for his team with seven baskets to his credit; the same number that Simpson of Armour made. Miller, N. C.'s captain, starred on the defense, and contributed two baskets from the sideline.

Final score: Armour 29, North

Lineup: ARMOUR Manz, rf. Carlson, If. Simpson, If. Rossing, c. Robin, c.

Augustine, rg. Goodheart, lg. Rutkowski, lg.

W. CENTRAL Danier, rf. Evans, rf. Cook, lf. Manning, If. Rosenah, c. Williams, rg. Willer, lg.

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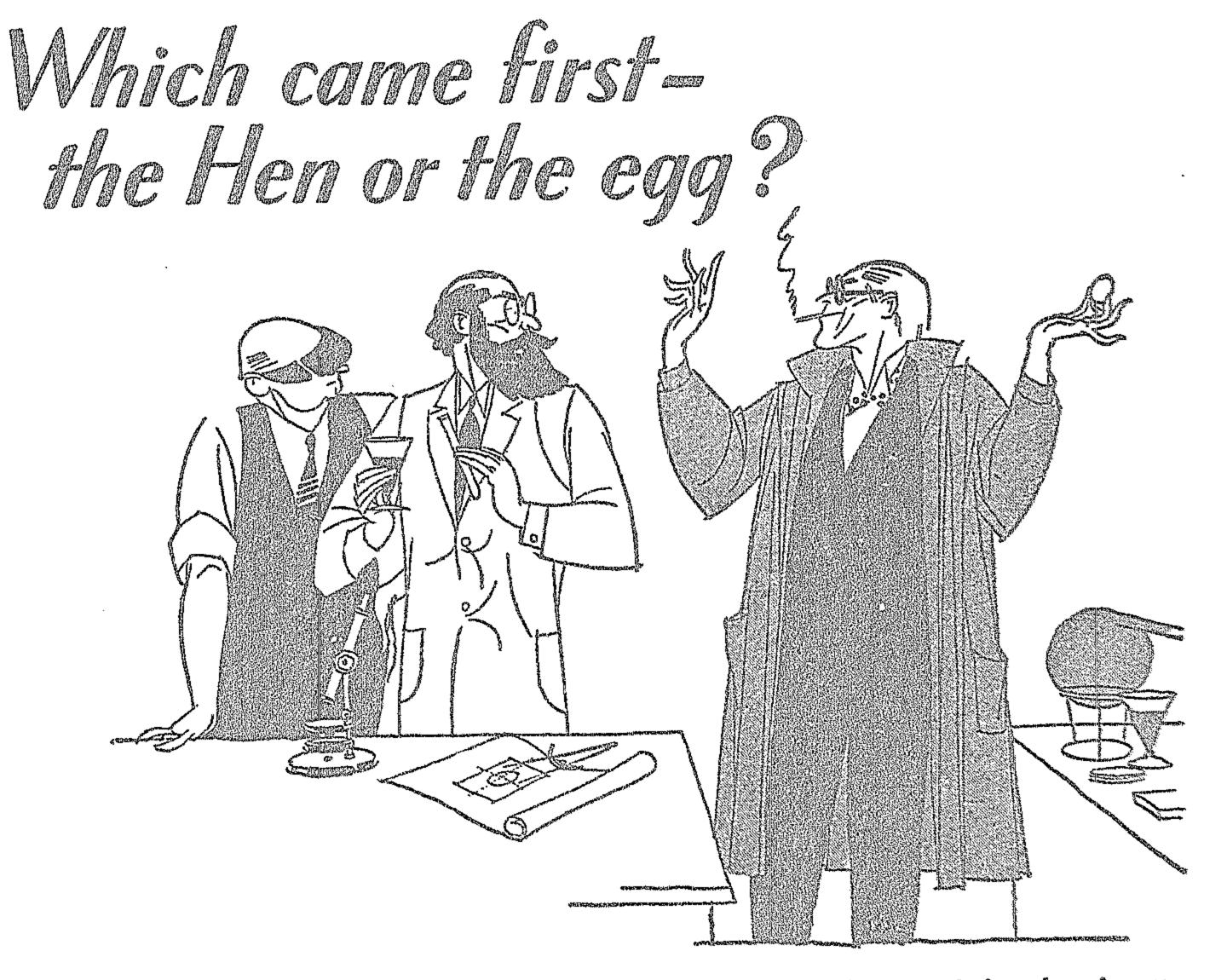
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After long and profound research, the senior scientist announced, "Gentlemen, we might as well conclude this inquiry. I have just discovered that this is a duck's egg!"

There's another futile argument, too, that might as well be cut short. That is, whether mildness or taste comes first in the choice of a eigarette. The answer should be easy, for while merely mild cigarettes are as numerous (and as undistinguished) as taxicabs, the cigarettes that can deliver richness, flavor and hearty relish are so few that you can count them on one finger.

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