### Compton Speaks on Cosmic Rays

Sponsored by the Geographic Society of Chicago, an illustrated lecture was submitted last Tuesday evening in Orchestra Hall by Professor Arthur H. Compton. "Cosmic Rays" was the subject portrayed, and the lecture was well attended by students of Armour. The lecturer strived to make every point comprehensible and clear to those people who were not familiar with the subject.

#### Michelson Finds Theory

Theory connected with, and the idea as a whole of cosmic rays were first established by Professor Michelson. His theory asserts that hydrogen atoms in space combine to form helium and other elements, and that the energy used in this process is given off in the form of rays, arbitrarily named cosmic rays. These rays are similar in behavior to light rays, according to the Michelson Theory, although having a much shorter wave length. The theory pictures the universe as a perpetuating body, with the atoms going through a complete cycle from hydrogen atom back to hydrogen atom.

As Professor Compton said, the first question asked will undoubtedly be, "What are cosmic rays?" The speaker explained that because of the existing early stages of the matter, the answer to this question would have to be based on one of the many theories set forth. As to whether these rays are affected by the earth's also present. magnetic field or not can only be answered when the results of many expeditions have been compared.

#### World-wide Data Taken

The travels of the Compton expedition began in Chicago and went to the Alps in Switzerland. Returning to Chicago, the instruments used for recording were checked and improved. From the experience gathered in this short trip, better equipment was made and other expeditions were planned. Seven sets of cosmic ray detectors and auxiliary instruments were made and sent to the far corners of the world.

Professor Compton's expedition continued its work by traveling to: Hawaii where data was recorded from the sea shore to the highest mountains. It was pointed out that the difficulties encountered existed in the safe transportation of the delicate instruments. After leaving the Hawaiian Islands, the Fiji Islands were next selected as a research field. Wet, tropical weather was met with there, and in order to insure accurate recordings it became necessary to lacquer all instruments generous-

#### Arctic Circle Visited

The dominion of New Zealand was visited and three days were spent there-recording data established by the expedition and the University of New Zealand. Australia was also visited ,and before embarking for South America a check was made of all instruments. In South America, Eucador and Peru were select ed as suitable fields for the work at hand.

Leaving South America, the Compton expedition travelled to Mexico and thence to the Arctic, Circle where the resulting data brought forth the fact that cosmic rays are more concentrated at the poles than at the equator. Cosmic rays were also found to be of greater intensity at the higher altitudes. With the recent ascent into the stratosphere, Professor Compon expressed his hope that the resulting data would simplify existing theories.

#### Early Fire Fighting Equipment Exhibited

Mr. Charles R. Tuttle, a member of the board of trustees and manager of The Insurance Company of North America, has extended an invitation to Armour students and members of the faculty to visit an exhibit of early American volunteer fire-fighting equipment on display at the offices of his company, Room 1201, 209 W. Jackson Blvd. The equipment, some of which is over two hundred years old, may be seen any day from 9 o'clock to 4:30.

Male students at Boston College have asked the coeds who are lonesome to wear red dresses. This was able to get a partner when they wanted to go out.

#### FACULTY CLUB HAS GAY OLD TIME AT CHRISTMAS PARTY

(Continued from page 1) group that could sing the best. The group supported by that well-known personage, President Hotchkiss, won the sing. The prize, a huge cake, was presented to the president as a representative of that group, and he was requested to cut the cake open. Much to his surprise the cake was hollow containing numerous mice (all dead), which he took a delight in throwing around the room. (The crime was probably premeditated). The initiates were very inconsistent in their choice of songs, first singing "What the H-Do We Care" and then "Onward Christian Soldiers." Maybe they were proving that you could raise cain and be religious at the same time.

The faculty was favored by a number of selections sung by Miss Lola Fletcher, an excellent soprano. Among her selections were "I Love Life", "Ah, Sweet Mystery of Life" and "Love's Philosophy."

Dr. Hotchkiss was asked to introduce the trustees that were present, who were Mr. Cunningham, Mr. Harper, Mr. Henne, Mr. Monroe, Prof. Schommer, Mr. Tuttle and Mr. Wiles.

was especially invited to the party, The mothers are showing excellent was unable to get there and sent a cooperation again this year and hope letter of thanks and regret, which to accomplish a great deal. was read by Dean Penn. Professor Donald F. Campbell, former head of the department of mathematics, was

Mr. Cunningham was called upon to give a short talk. He said that business was not picking up yet, but expected it to do so soon. He also told of his visit to Steven's Institute and remarked that Armour compared very favorably with this high ranking engineering institution.

Prof. Schommer was called upon to | years. speak, and among the important things said was the mention of the members to support the track team. He then introduced Coach Weissman, who in turn introduced Talaber and Sumner. These two were scheduled have started to practice early. for an exhibition wrestling match. He introduced Graham and Way who were slated for a boxing match, which was the first of the school box- tends a Merry Christmas and a very ing tournament.

A ring was set up and the wrestling match was on. Talaber pinned at the chapter house on New Year's Sumner with a half nelson and eve, and the Father and Sons Bancrotch hold in seven and a half min- quet will be held on Thursday, Janutes. The boys were very active uary 11 at the chapter house. during the whole fight to the complete amusement and enjoyment of the trustees and faculty.

The boxing match between Graham | Eve party are rolling right ahead. | movie to be shown. and Way was a fast bout. There were no means overshadowed the fight. Everybody got a big kick out of the way those two fellows took turns getting the last poke while coming out of the clinch. By popular vote, the boxing match was deemed a draw.

Prof. Moreton indicated that the match was the last thing on the program and the party broke up. The trustees and faculty began wending their way homeward after one hilarious evening. (Classes will be re-

#### THE CAMPUS PEST

A biological definition of a parasite is "a plant or animal living in, on, or with some other living organism (called its host) at whose expense it obtains food, shelter, or some other advantages." There are college students who might well be classed with these "social bums" of animal life.

Such students may be found getting their daily lessons from someone who has spent time preparing them. Of course, these college parasites spend time in copying from their hosts, but even a flea uses a little effort in clinging to the warm body of the dog.

Parasites may be divided into two general classes, external and internal. While most college parasites can be classed under the former type, a few of them succeed at times to get under a person's hide.

Although the plant and animal parasites have it over their more intellectual cousins of the college type in that they cause death in some cases, before we could build a bridge I shall close. I hope you enjoyed it the campus pests are rapidly closing across it. There is a small mill also, the gap that separates them from the for I do like to Seegrist coming from form of wit. leaders.

A dog has no love for fleas. No human being enjoys a mosquito, and Teach at Armour Institute. The the popularity of these social paradone so that the students would be sites on the campus is nearing the degree of negative infinity.—Daily Amsburyed in sweet charity. At Kansan.

# Fraternity Notes

PHI KAPPA SIGMA

Alpha Epsilon chapter takes pleasure in announcing the results of the semi-annual election of officers, held Tuesday, December 11: president, L. W. Biegler; vice-president, R. P. Dobson; treasurer, D. L. Jacobson; corresponding secretary, W. H. Fogle; social chairman, W. C. McCarty. An alumni smoker was held at the

chapter house Thursday night, December 14. The result, in spite of the bad weather, was a very good Brother Arch Jackson president of the Grand chapter, and Brothers Erickson and Schommer were among the old timers present.

Most of the active members and pledges are planning to attend the annual Christmas Formal to be held at our chapter house at Northwestern University on Friday, December

#### DELTA TAU DELTA

The annual Pledge Dance was held Saturday, December 2. In spite of the rain a large number attended and all had a good time. Congratulations to the pledges for their fine

Last Sunday the December meet-President Emeritus Raymond, who ing of the Mother's Club was held.

Basketball has been very successful this year. Two victories assure us of a place in the final round. The boys have worked hard this year and deserve their success.

#### TRIANGLE

Last Friday evening many of our alumni attended a smoker at the house. This smoker is the first of a series, each of which will consist of the members of four preceeding

Our first victory in basketball was somewhat counter balanced by the Armour Relays to be held March 17 defeat which we got last Thursday. and the urging of all the faculty Five fellows have been out to track practice from the house. We are anticipating some stiff competition in the defense of our track cup so we

#### PHI PI PHI

Gamma chapter of Phi Pi Phi ex-Happy New Year to all.

The New Year's party will be held

RHO DELTA RHO Preparations for the Christmas by arranging for a Buster Keaton

## Delts and Phi Pi's in Cinder Stars, to Open Cage TourneyFinals

Phi Pi Phi with its usual aggressiveness romped over Phi Kappa Sigma by a score of 34-14. Although several of these baskets were somewhat unearned, the superiority of Phi Pi Phi's team was evident throughout the game. Shukas was high scorer for the Phi Pi's and Biegler for Phi Kappa's.

BOX STORE

d l	PHI PI PHI	В.	F. I
ր ո	Melinowski, f	1	0
	Steochli, f		0
<u>.</u>	Shukas, f	7	4
,	Forberg, f	0	0
d	Merz, c	3	0
e	Heike, g		1
d	Gagliardo, g		0
	Sramek, g		1
r	Winkler, g		0
•	Castanes, g		0
	-		<del></del>
	Totas	14	6
đ	PHI KAPPA SIGMA—14	В.	F.
u f	Frazier, f	1	3

Skeppstrome, c. .....0

Delts Nose Out Triangle

The Delt-Triangle game resulted in the second victory for the Delts. The game was marked by roughness and proved exciting in the last half. Trailing 13 to 6 at the end of the first half, the Delts tied the score and went ahead. Triangle recovered from their shock to tie the score at 17 all by the end of the fourth quarter. The game went into an overtime which was marked by light defensive play, until Doane dribbled the length of the floor and sunk his fifth basket for the deciding points. DELTA TAU DELTA-19 B. F. P. Streb, f. ...... 0 3 Amory, g. ....... McAuliffe, e.-g.

. !		<del></del> -	
	Totals8	3	13
	TRIANGLE—17 B.	F.	P
	Thompson, f2	1	1
	Kraft, g	0	0
•	Vanderkloot, f3	0	0
'	Lillis, c	1	1
	Cohrs, g0		
	McBrady, g1	0	2
ŀ	Lyford, g0	1	4
•	 	********	<b></b>
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The social committee has added a

little variety to the ordinary order

## a number of clinches, but these by Extract From the Lovely Letters Received by a Bearded Old Man Carnegie Institute of Technology re-

Dear Santa Claus:

I take my Penn in hand to write you a letter. It will have to be done hurriedly, so I hope that you can Reed it.

My pets have been considerable bother lately. The goldfish is looking quite Haggard; he caught his Finnegan and tore a Nash in it. Although it is nearly Heald by now, he is content to rest on the Peebles in the bottom of his tank. He was lucky it was not a Gill. Recently I have also taught my Hen-dricks she never knew before. A dog purSuter last week and she has been so aFreud since that I think I shall

Palmer off for a duck. We are living in a new residence. As you know I have never cared for Holmes on the Leigh but have always wanted a Hillhouse and at last I have it. The Carpenter was no Scherger and did a very good job with no Grafton it. He was a profane soul, his favorite expression being "O-l-son!" Fortunately we do not have to depend upon Wells but have a large brook in the garden. It was necessary to put in a Colvert

the stones. As you no Doubt know I now dollars and cEnsz that I get from following my Krafft are better than to ask for anything, didn't you? Bework one is required to wear his best a book on contract bridge.

Editor's note: This missive was Bibb but no Tucker. The faculty hook-up on the question, "Do Too intended for our good friend, Mr. deal in weighty things in their di-Claus, but after the Faculty party vertessments. A favorite game uses and initiation the other night, some tons as counters. One man, in his the colleges fail with certain of their alert snooper swiped it and here it excitement, keeps yelling "More! More!" but it never does him any good while another Wins without even trying. A third, becoming provoked, says "Dut! Dut!" and tries again. We also have a Libby (not Holman) who looks as though he could sing a mean torch song.

> are great diSpencers of hospitality. There does not seem to be any great intemperance, however, and one frequently hears an order for "Two "Beers-man." Some of the stronger as their unsteady legs will carry of the universities, and lack of serithem. There is very little in the way ous purpose in going to college is. With the support of the class inof general treating as was done in wastefulness on the part of the stu-sured, the committee hopes to close the past where one man would step up to the bar and shout "All-is-on

We have had little Snow in Chicago so far-you will have to go to Norway for that. The wintry blasts do Blough, however, and send Spears of cold through one. The few remaining leaves are Sear and dry and Foster memories of summertime.

This letter must begin to Paul, so even if the pun is the Perry worst

With love and Hotchkisses. Yours,

Bruce Lockling. P. S. You thought I wasn't going

# Season In Class Meet

Armour Tech's track season will be officially opened the first week of school after the rapidly approaching holiday vacation. The occasion will be the Interclass Track Meet on Saturday, January 13, in the University of Chicago Fieldhouse. The Interclass Meet this year will find this year's juniors trying to repeat their victory of last year, when they pulled somewhat of a surprise and won their second interclass athletic championship PLAY ALUMNI TONIGHT of the year.

This year, as usual, the meet will probably be a close one since all track lettermen are allowed to participate in one event and the relay. Both the present Senior and Junior classes have a good chance at winning with the Freshmen as the dark horse, although if some of the rumors which are circulating around the campus are correct, the Freshmen have an excellent chance at the title,

#### TRACK SCHEDULE ANNOUNCED

The veterans of the Techawk track team will have an opportunity to stretch their legs in the Interclass Track Meet in preparation for the indoor track schedule which is prac- scheduled to oppose the Techmen in tically complete. Nicholas Kuehn, a game to be played in the Armory. manager of the track team, and The Techawk team, however, has its nounces as a tentative track schedule, attention attracted by the impending the following:

INDOOR TRACK SCHEDULE January 13 — Interclass Track

February 10-Armour Tech vs. University of Chicago at Chicago. February 16-Armour Tech vs. Loyola at Loyola.

March 2-Armour Tech vs. North Central at Armour. March 9-10-Central Intercollegi-

ate Meet at Notre Dame. March 16-Central A. A. U. at and will offer plenty of opposition. University of Chicago Fieldhouse.

March 17-Aimour Tech Relays. ler University, Indianapolis, Indiana.

April 7-Armour Tech. vs. Elmhurst at Armour. **OUTDOOR TRACK SCHEDULE** 

Williams College at Armour. May 5—Armour Tech vs. Bradley

Tech at Peoria. May 9-Armour Tech vs. Loyola at Armour.

May 12—Armour Tech vs. Elm- Plans for Soph hurst at Elmhurst.

#### COLLEGE MEN ARE IN EXCESS CLAIMS UNIVERSITY PREXY

"There is at present a surplus and uneconomical excess of college men," said President Baker of the cently over a nation wide radio Many Men Go to College?" "This," Doctor Baker said, "is, first, because students to achieve results that are worthwhile, and second, because certain students (somewhat the same group) have not sufficient interest in intellectual questions to justify the expenditure of time and money that a college course demands. Some men of exceptional gifts should be Now that repeal is here, the bars | in college and are not. Some of the mediocre ability are, and should be anywhere you please, except hearing lectures and doing bookish

dents. These forms of extravagence the issue early this week. Many comundermine the ideals of sound think-panies have offered bids, and when ing, sound scholarship and national the last is heard from, the class can intelligence.

should be a great stabilizing and quality. conservative force to prevent people from being swept off their feet. It We may expect to find, therefore, should not be merely something to more men occupying high positions be turned to whenever we are con- as administrators of great concerns fronted with a crisis; it should be a | who have had a technical education. means for the cultivation of the in- "If the times are so completely

fore I get murdered, please send me facturing and distribution than many so that the capable and the industriof the present type of executives. ous will have their chance."

# HOLIDAY GAMES

Vacation Means No Rest For Busy Techawk Quintet

Before the next edition of the News the Armour Tech basketeers will have played five games. The Alumni game will be held at the Armory this afternoon followed by a contest with Chicago Normal Thursday. January 5 is the date of the return game with North Central and on January 11 and 13 Armour meets De Paul and Augustana.

In the Alumni game the Armour stars of the past few years will unleash their skill against their alma mater. It should be interesting to see the former Tech "stars" in action once again.

Beat North Central!

Thursday, Chicago Normal is game with the sharpshooters from North Central. It is hoped that in the Chicago Normal game the Armour team can perfect its play so as to be in shape to submerge their hardy opponents from Naperville.

One of the high points of the basketball schedule is the De Paul game, which is to be played on the Blue Demon's home floor. De Paul has a strong aggregation, most of the men being veterans of last year's quintet,

#### Play Augustana

Augustana will be met by the March 24-Butler Relays, at But- Techmen at Rock Island, Illinois, on January 13. The Augustana team, although it has beaten several small colleges rather decisively, presents itself as a "dark horse" opponent. April 28-Armour Tech vs. George | The results of the above games will be given in the next issue of the News for those who are unable to attend the games.

# Coat Materialize

These obstreperous sophomores, who recently broke into print with their jacket idea, are actually serious. After a lull of a few weeks, the committee has turned up for air, and they turn up with results.

Of course, the class of '36 could never be content with a black jacket, so it looks like a maroon coat will be the choice. It is entirely possible that the sophs might select a snappy cardinal as their color. Gold chenille monograms will provide the finish and identification.

Material Is Heavy

The committee, bearing a desire for a practical garment at a practical price, has agreed on a durable grade of melton, a high class garment textile. It will be heavy enough to outwear the class of '36. (That's saying plenty!) The "monkey jacket" cut of campus coat was soon relegated to oblivion, and in its stead a form-fitting, free-hanging "swagger coat" is taking shape. This coat most closely approximates an all year ar-"Overproduction of college men," ticle, but is not too cumbersome to drinkers are overcome though and he said, "is a form of wastefulness be impossible for indoor wear. When sing "Schommer the way to go that creates overproduction. Unim- dissension began to creep out, a conhome" or "I'm just a Vagtborg portant courses given by unimport sensus of the class revealed an almost lover" and then Roesch away as fast ant men is wastefulness on the part unanimous support of this style coat. Make Choice This Week

rest assured that they are receiving "Education", said the president, the utmost in cut, cost, color, and

dividual-something with a subject out of joint," the speaker concluded, tive purpose, not an objective goal. "that there should be an overpro-"The man with exact scientific duction of thoughtful and resourcetraining," President Baker declared, ful college men, we may be sure that "is likely to be more competent to sooner or later they will find a way deal with the complexities of manu- to rearrange the affairs of the world