

The workingest college student now on record is a junior at Miami Uni- | laboratories. versity. This man is not only carrying 20 study hours and auditing one course, but to support himself, he works 50 hours a month on the NYA, quet, after which results were preis an assistant in the physics department, grades papers for the mathematics department, and works from seven to midnight every day in the studied in the chemical engineering office of a taxi company.

Nineteen colleges and universities are giving prizes to those seniors who which had all equipment in operaacquire the most interesting library in four years.

Twenty Mount Holyoke college freshmen will be allowed to take only two courses this year under the rules set down for a unique educational experiment there. That's really hard to take.

Dec. 31.

Oldenburger to Talk

represent the Institute at the meet-

ings of the American Association for

the Advancement of Science to be

the week Dec. 30 to Jan. 2. He

The matrices are certain types of

functions that are being used more

and more in applied mathematics,

particularly in the study of quan-

tum mechanics, which is a study of

atomic structures and tries to ex-

plain by an extension of Newton's

laws the radiation of light from a

given substance. The address covers

researches carried out during recent

at Science Meeting

Dr. Francis Wayland Adams, Amherst, '62, is one of the oldest college alumni living.

An article in the Daily Northwestern reveals that every student wanting to enter any college or university in Argentina is required to know how to dance the tango. In China, they say, the newcomer must be able to project into his mouth-using chop sticks-ten peas without missing a shot-am I glad I came to Armour!

Johns Hopkins university recently accepted a gift of 300 books from the Italian government. An expected anti-Fascist demonstration by students failed to materialize.

A recent survey of a student di rectory at the University of Minnesota reveals that among those going to college at that institution are Arey, Wilde and Wooley, Barnum and Bailey, Gee and Golly, Long and Short. The university harbors a Spooner, a Parker, and a Moon, perhaps for those interested in Love, Darling, Honey, and Sweet. The stock market is represented by Bull and Baer, and Lastz but not Leitz is the prominent trio, Stein, Beer, and Bender.

### Junior Mechs Visit Great Lakes Forge

An inspection trip to the Great Lakes Forge Company at 1220 W 119th Street, will be made this afternoon by the junior mechanicals.

and Lincoln cars.

unique feature of the plant is that needs and progress of each student, diesel driven air compressors instead together with the educational value of steam boilers are used to maintain the pressure for the power ham-

# Fraternity Notes

Pi Kappa Phi

Pi Kappa Phi is offering congratulations to John Doudera and Myron Stevens on their recent initiation into Sphinx, the honorary literary fraternity.

The Pi Kapps are all keyed up with the run offs of the house ping pong and billiard tournament and the completing of arrangements for the Christmas party and dance that is to be held on the twenty-first. large turn out of alumni and visiting members is expected.

Delta Tau Delta Delta Tau Delta is extending congratulations to Don Brissman on his appointment to the editorship of the Armour Engineer and Alumnus.

The Mother's Club had a very successful meeting last Sunday afternoon. The Delt house has also been visited by several alumni during the past week.

Phi Kappa Sigma a few of the rooms.

last Monday evening.

## A.I.CH.E.'S JOINT MEETING DRAWS LARGE TURNOUT

Drawing the largest crowd ever to attend a meeting of the Chicago Chapter of the American Institute of Chemical Engineers, the joint meeting last Wednesday night of the Armour Tech student chapter and the Chicago section of the A.I.Ch.E. proved to be an "eye-opener" to those not already familiar with the work done in the Armour Tech chemical

The program consisted of a bansented of some of the experiments laboratories. This was followed by adjournment to the laboratories

Show Creat Interest

Much interest was shown by the visiting engineers, especially the younger ones, in the presentation of results of the study of unit operations. The speakers presented their talks in the following order: Zmeskal, J. N. Weiland, J. Kahles, W. J. Tallafus, O. E. Norris, Doctor Rufus Oldenburger will R. F. Berger, and J. H. Johnsen.

Prominent men who attended the joint meeting included Dr. Thiele of the University of Michigan, Dr. Adler of the Victor Chemical Company, held at St. Louis University during Mr. Muchlberger, toxicologist of the School of Crime Prevention at Northwill address the American Mathe- western University, Mr. De Beers of matical Society, which is one section | the Swenson Evaporator Company. of this organization, on the subject, and Mr. Harper of the People's Gas "Characteristic Roots of Direct | Light, and Coke Company. Many Ar-Products of N-Way Matrices" on mour alumni were also present.

Praise McCormack

Many of the men, when asked their opinion of the program, made remarks such as these: "Students show a lot of energy"; "Remarkably well presented"; "Surprised to find such everybody good". Several of the alumni remarked that the last few years have brought about a marked change in the equipment in the laboratories, not only in the quantity but in the way in which it was arranged. Professor McCormack was highly Chemical engineering laboratories

Election of officers of the Chicago Chapter of the A.I.Ch.E. was held immediately following the dinner. Dr. Adler was elected president; Mr. Arson, vice-president, and Dr. Barr instructor in Chemical Engineering at Armour was selected secetary. treasurer.

Students to Lecture

Students are invited to attend the

talk to be given by Dr. Clarence W.

Balke under the auspices of the

Physics Club of Chicago next Tues-

day, Dec. 17, at 7:00 p. m. at the

Chicago Lighting Institute, thirty-

sixth floor of the Chicago Civic

Opera building. Rare metals, par-

ticularly tantalum, columbium,

molybdenum, and tungsten will be

discussed, and samples exhibited

during the lecture. Dr. Balke is con-

nected with the Fansteel Metallurgi-

Prospective lectures at the Light-

ing Institute will include an address

by Prof. R. R. Ramsay on Antenna

Radiation, Jan. 25, 1936, and a talk

by Dr. F. R. Moulton, Feb. 18, 1936.

tails may obtain additional informa-

tion from Prof. Thompson of the

Splash-House Party

Members of the Chemalum asso-

ciation will have an opportunity to

create a splash for themselves at the

proposed combination splash-house

party to be held on Dec. 28. The par-

ty will begin at 8:30 at the Stand-

ard Club, Plymouth and Jackson,

and at 10:30 will move to the south

side of Chicago to the home of

will be inaugurated by Chemalum

originated by R. G. Stevens, will be

Mondays and Fridays.

Pool, ping pong, and bowling

Gus Freund for its culmination.

Chemalum Proposes

Students interested in further de-

cal Corporation.

physics department.

## (Continued from page 1) has been drawn up and is ready for

distribution. The details are as fol-Designed to offer aid both to de-

serving high school students, who lack sufficient funds for the usual college course, and to industry, the course will be of five years duration, approximately one-half the time Physics Club Invites Included in the visit will be a tour | being spent in school and one-half through the die stamping, diesel en- in industry. Students will alternate gine and drop forge departments. between the two assignments at in-Forgings are made here for Ford tervals of eight weeks while work will be assigned after consultation Professor Roesch states that the with cooperating employers. The of the work, will be under the constant supervision of a member of the faculty.

All Expenses to be Earned

Tuition for each of the five years will be \$240 with an estimated additional \$50 per year for fees and text books. These expenses will be paid out of the students' earnings, wages being given directly to the students, who then meet their obligations to the institute.

Beginning students will be paid a minimum weekly wage of \$15. Increases above the minimum wage, based upon working experience or previous industrial training, are subject to special arrangement with the employer in individual cases.

Scholastic requirements for admission to the cooperative course will be the same as for the regular courses of the Institute. Graduates of the course will receive a bachelor of science degree.

# Armour Grad Heard in Radio Broadcasts

Alexander Kulpak, well known member of the class of '34 is now Both the dance held last Friday | singing over the air. He can be heard and the semi-annual banquet of last weekly on Sundays over station Sunday were well attended by the WGES between 1 and 2 P. M. While members and the alumni. At present at Armour, Kulpak, besides being a the members are busy redecorating member of the mechanical department, was outstanding for his work next week. These tournaments, An alumnus of the class of '31 was as a soloist with the Glee Club. He played at the fraternity houses on a visitor at the Phi Kap house on was also one of the Armour Players and a member of the track team.

## GEORGE WILLIAMS BECOMES SECOND VICTIM FOR TECH

opposition meeting Although which proved to be stronger than was expected, the Techawk cagers bagged the season's second victory last Wednesday with a 31 to 20 win over George Williams. Beginning as a dull exhibition of close guarding and occasional shooting, the game quickly changed into a spirited and snappy fracas.

Gene Heike, high point man, with four baskets and five free throws, was but a few jumps ahead of his mate at the forward position, Bill O'Brien, who counted with three buckets and two charity tosses.

#### George Williams Scores First

The actual scoring was a long time in coming. George Williams got the opening tip-off and worked the | fered from lack of reserves. ball in, only to lose it shortly to Armour, who in turn brought the ball basketball semifinals, Delta Tau back only to lose it themselves. These Delta defeated Rho Delta Rho, 14 alternating futile assaults occurred to 13. five times, until finally Capt. Me-Bride let loose with a long one to give Williams the opening basket and dropped in a field goal to start the the second half until Laise of the a 2-0 lead.

free throw and tried to work the ball into position. However, Bob dying threat; when they scored terized by much fouling, gained passed to O'Brien who pushed it in wards its finish. to tie the score. The game then settled down to a slower tempo, Armour's scoring plays meeting strong opposition from the zone defense unexpectedly employed by Williams, and the visitors themselves being unable to click, with the giant Blewett, spearhead of the Williams atack, completely bottled up by Heike and held to one measly free throw.

#### Warner in Double Foul

A bit of the unusual occurred late a variety of equipment"; and "Did in the first half when Blewett and Warner were fighting for a free ball. After about ten seconds of tussling, the ball popped out of the melee and rolled away. However neither man seemed cognizant of the fact and they continued their fun without the necessary sphere. The result was a praised for the development of the double foul with neither player taking advantage of the opportunity to raise his team's total. Bagliff hocped two charity tosses and a bucket to end the scoring in the first half and put Williams back in the running, trailing Armour 11-7.

> The second half opened auspiciously for Williams with Bagliff netting two free throws and Gentile following shortly with the tying bucket. However, this proved to be Williams'

# Phi Pi's, Delts Win Fencers Cross Foils Frat. Cage Games

Phi Pi Phi went to the interfrat basketball finals to the tune of 36-14, the Kappa Delts being the victims. Ikenn of the Kappa Delts rang up the first basket of the game, but the greater strength of the Ph Pi team manifested itself and the score crept upward in their favor. At the quarter Phi Pi led, 11-6. The scoring in the second quarter consisted of three points gained by Phi Pi and one point gained by K. D. E.

A follow up shot by Abbot of Ph Pi opened the second half and then the barrage of baskets came fast. Dunbar and Shukes sank the two final goals of the game and the score read 36-14 in favor of Phi Pi. The superior strength of the victors was evident while the Kappa Delts suf-

Starting the game off, Henriksen Delta Rho. of the Delts dribbled neatly and Williams recovered the ball off equalized the score with a couple of lagher of the same team made a back-board when Wolf missed his gratis hoops and Sorkin counted spectacular overhead toss. The tense

Merz blocked a pass, dribbled be- again they were eleven points beyond the middle of the court and hind and the game was well on to-

> BILL ECKROAD'S SANITARY BARBER SHOP 3 Barbers—No Waiting Cigars—Pipes—Cigarettes Pocket Billiards 114 E. 31st St.

# with Wright Jr. Men

The fencers will open the season with their first meet against Wright Junior College next Thursday, Dec. 19, at three-thirty in the collar box (gym to you.) The Armour attack will depend mainly on the efforts of the Trzyna brothers, G. F. Kahle, C. B. Folkrod, and P. A. Reh. Since the A. T. A. A. does not finance the cost of equipment, the fencers must supply their own foils and mass.

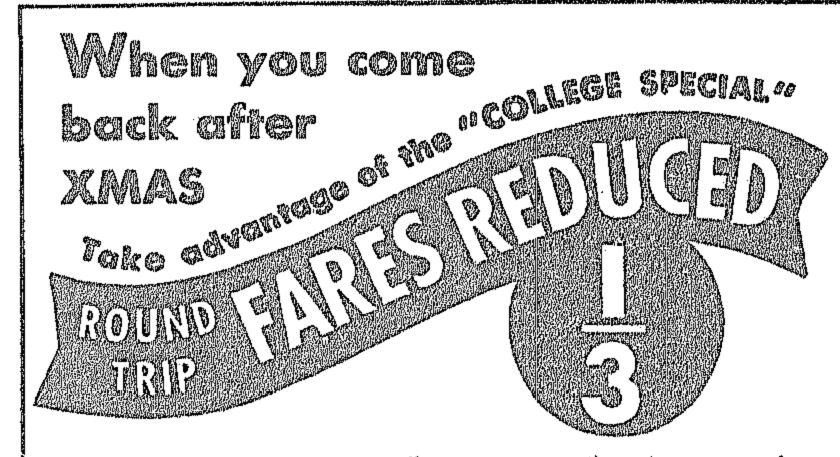
Manager Balai succeeded in arranging a very stiff season for the teams. A practice meet was held Friday, December 13, at the University of Chicago. With representation of such schools as Northwestern University, South Side Junior College, and Wright Junior College at the meet, competition was fast and exciting.

with a basket as the quarter ended. The second quarter was a point-get-In the first game of the interfrat | ter for both teams; Engelthaler and Taradash taking most of the honors, and the end of the period showed a 9-7 score in favor of Rho

The game progressed slowly in scoring. Taradash of the Rho Delts | Delts hung in a long shot and Galplay in the closing minutes, characpoints for both sides but the final whistle showed the Delts in the lead by one point.

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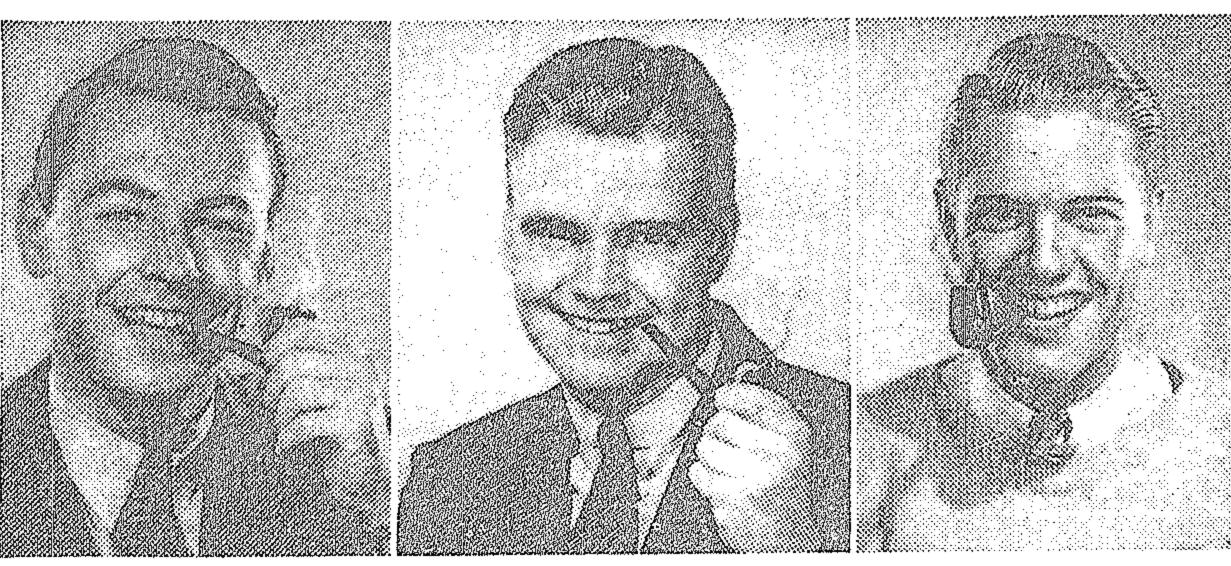
you can use the return coupon to travel home again or use it at close of school.

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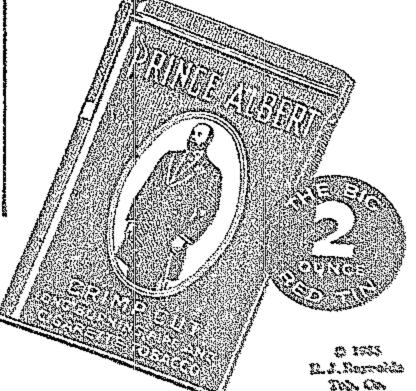
There's no skimping on quantity,

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fuls of choice tobacco in the big

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