

Faster Photos Made by New Speed Camera

A new addition to the Armour Research Foundation will be a modern high speed photography laboratory. Extensive remodeling is being done to enlarge and improve the present set-up and, according to information released by Dr. Francis W. Godwin of the Research Foundation, this new arrangement will provide facilities for all phases of the photographic field.

There will be facilities for both still photography and motion pictures. One of the slower motion picture cameras will be the standard one which takes from 8 to 64 frames per second. A new high speed camera has recently been purchased by the Foundation, this being an Edgerton manufactured by the General Radio Company. This machine will take motion pictures of thirty-five millimeter size and will photo up to 2,000 frames a second. The speed of the exposures will be about 1/200,000 of a second. A high speed camera using a new principle is now being developed by the Foundation.

Another department of this laboratory will contain equipment for the study of ballistics. The cameras used are of the high voltage discharge type and stop pictures at 1/1,000,000 of a second. This work will be similar to that which has been shown by photographs of the bullet stopped in mid-air, published in the daily papers a short time ago.

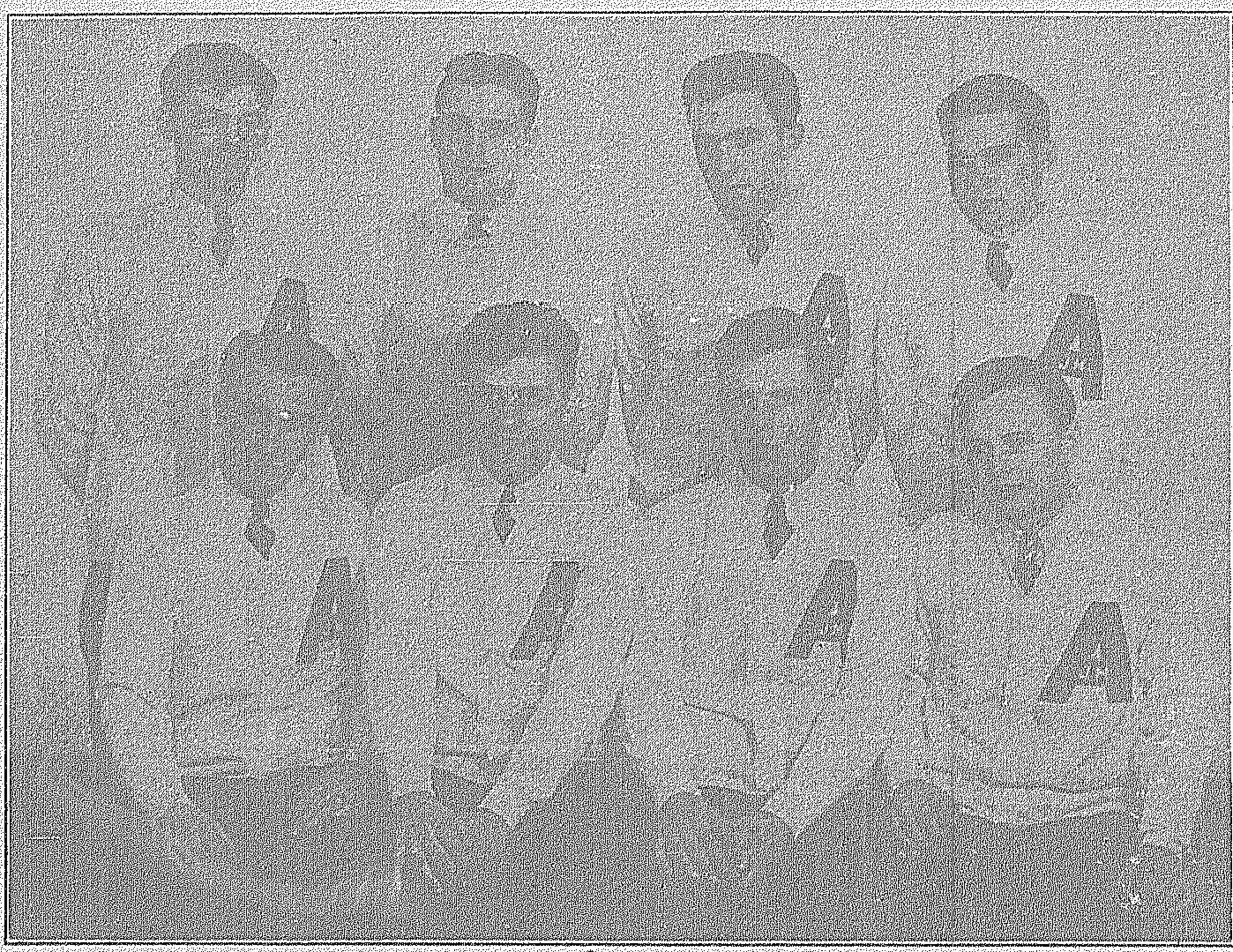
Re-Landscaping Changes Campus Color to Green

For the past few weeks Armour students have been watching our campus change from the drab colors of early spring to the pleasant green of summer. The boys have been interested also by the large amount of work being done in re-landscaping. Some curiosity has been expressed as to what effect the Lewis-Armour merger will have upon Armour's present campus. What the final results will be are not yet quite certain, but, in any event, Armour's present campus will be maintained. In the meantime good use will be made of new and more convenient facilities for intra-mural activities.

A good deal of land has been torn up and new surfacing material has been put in with two purposes in view. These are first, Armour's plan for making the grounds more beautiful, and second, to increase the facilities for inter-mural sports. Already excavators have removed the old surface ground, wherever necessary, and new rich black loam has been dumped by the truckload, leveled off and planted with a special mixture of grass seed. Three hundred Boston Ivy plants have been set around all of the buildings. By next year our buildings will be covered by a warm green blanket of ivy. A large number of trees such as poplars and elms are to be planted also.

New Diamonds
Baseball is one of the more popular sports here at Armour; most of the boys play softball on Ogden field when they find time for recreation at school. In response to this action three or four more new diamonds are to be built very soon. They will be laid out especially for softball. Two of them will be located on the large field just north of our small park on 33rd and Dearborn. One will be in the lot north of the automotive laboratory on Federal Street. The plot south of the ice plant on Dearborn and between 33rd and 34th streets is being cleaned up so that in case it is needed for softball it may be used.

Our tennis courts are being enlarged and put into first class shape. When this work is finished, by next week, there will be eight and a half feet more room at each end of the courts for back court play and workouts. The total lengthening of the two contiguous courts behind Chapin hall will amount to about thirty feet. Many boys here will be interested to know that an archery club has been organized at Armour and it will begin active participation in that sport



The Junior Marshals - These men have been selected to facilitate your enjoyment of Junior Week and Open House. They are, from left to right: back row—Rudy Zoellner, Joe Olchawa, Mack McAleer, Ray Dodge; front row—Bud Murray, Frank Pfeiffer, Head Marshal, Bill Bauch and Ben Cole.

Marin Returns From Meeting

On April 27th and 28th, Professor J. Marin of Armour Institute participated in a meeting of the Sub-committee on Weld Stresses of the Engineering Research committee of the Engineering Foundation, New York. This committee is composed of Professor Marin, Colonel W. E. Jenks of the War Department, Washington, D. C., Mr. Everett Chapman, the President of Lukenweld Inc., and Professor Sayre of Union College.

Armour May Sponsor Research
The committee met at Lukenweld Inc. at Coatsville, Pa., and discussed proposed research on combined Fatigue Stresses which may be sponsored by Armour. This work will be of significance in the design of machines and, in particular, the project is of interest to industries which use welded construction.

The machine designed by the committee will subject a tubular specimen to a structural internal pressure synchronized with axial fluctuating loads.

Spring Concert—

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son. Soloist for the glee club will be Robert Hammer.

The program for the entire affair is as follows:

- Overture "William Tell"—by Rossini Orchestra
- Jolly Fellows—By Rhye-Herbert Glee Club
- Bird Songs at Eventide—by Coates Glee Club
- Song of the Vagabond—by Friml Glee Club
- Henry VIII Dances—Edward Glee Club
- German Orchestra
- Shepherd's Dance Morris Dance
- Inter Fraternity Sing
- Alpha Sigma Phi A Toast
- Fond Recollections
- Rho Delta Rho Rho Delta Tap Song
- Pi Kappa Phi Rose of Pi Kappa Phi
- Drinking Song
- Sigma Alpha Mu
- ...The Wing Croons Me a Melody
- Fast and Firing
- Theta Xi Sweetheart Song
- Jubilee Song
- Triangle Triangle Love Song
- Triangle Pals
- Delta Tau Delta
-Sing to the Loyal Purple
- Delta Shelter
- Phi Kappa Sigma Marching Song
- Loyal Sons
- Old Man River—by Kern Glee Club
- Kentucky Babe—by Geible
-Glee Club
- De Animals a Comin'—by Bartholomew Glee Club
- Chinese Temple Garden—by Kettelby Orchestra
- Time Alone—by Herbert Orchestra
- "Mardi Gras"—by Grofe Orchestra
- Rolling Down to Rio—by Edward German Orchestra and Glee Club
- God Bless America—by Irving Berlin Orchestra and Glee Club
- Alma Mater The entire Audience

New Equipment For Ventilating Lab. Installed

New equipment has been secured for the ventilating laboratory through the courtesy of the following firms: Ilg Electric Ventilating Co., Powers Regulator Co., Universal Cooler Co., Allis Chalmers Co., Detroit Lubrication Co., Alco Valve Co., and the Spraying Systems Co. The Mechanical Department takes this opportunity to thank these firms for their co-operation. Research and experiments with this equipment will be carried on by juniors, seniors and night and day graduate students.

What It Is and Does
Air from the room and outside is taken into a 15 foot 8 inch by 18 inch sheet metal duct by means of a centrifugal blower which has a capacity of 3500 cubic feet of air per minute and is directly connected to a 3½ horsepower motor.

The dampers are set by a regulator to fix the quantities of outside air to any quantity of circulated air. After being mixed, the air is washed by a series of water jets to remove the dust. Passing through the washer it is heated by steam coils and allowed to pass into the blower to the discharge duct which is 20 feet of 18 inch by 18 inch duct.

Changes Made in Cooling System
The air is forced by the blower through an egg crate filter which will prevent eddies at the cooling coil and into the discharge opening. Changes in the cooling unit may be accomplished by means of a variable pitch, four-strand pulley which is connected to a 7½ H.P. motor. Speed variations are obtained by sliding the motor along guide rails, thus engaging the belts to varying diameter pulleys and obtaining various speed ratios.

Flow from the discharge tube is governed by a conical duct which can be used to cut off the flow or to increase it. Pitot tubes will be installed to measure the velocity of the air and to test the high efficiency coils.

Summer School—

(Continued from page one)
The summer program will consist of twelve weeks subdivided into three periods of four weeks each and will include for the individual a comprehensive study in one and only one course of at least two hours daily for six days a week for a full month. With the satisfactory completion of the course, four semester hours will be entered as credit in the Graduate Division of Armour Institute. It is intimated that in special cases and for additional financial consideration permission will be granted to students as auditors in classes other than those of the comprehensive study, with the provision that under no circumstances will credit be forthcoming.

Editors Serenade MacMurray Hostesses

(Continued from page one)

able Mr. Barlow, of Illinois University, who chides us for overlooking the minor personalities of the campus in the weekly news coverage...such as for instance, the janitor. Have we after all these years forgotten the janitor? Never! Never! Say not that nary an extolment of his valorous duties has graced our fair sheets! "Ouch...Quit shovin' Yehudi. It's not time yet." Say, rather, that always has his map maneuvering and shovel shifting been the highlight of our weekly menace. And furthermore, who reads the news in this paper anyway? Say...who's reading this?

But Peaches Don't Pick

But enough of this twaddle. It must be said by even the most bitter of enemies that the injection of the fair Armour corpuscles into the convention's life stream, if not exactly undermining it, at least made it, shall we say, interesting? It was, in truth, a ghostly quiet luncheon into which the Techawks were led and thoughtfully and, we fear, premeditatedly seated in an obscure corner in the rear, of the college restaurant. Was it then strange that soon the lilting strains of "St. Patrick Was An Engineer" did fairly burst the gentle silence? Nor that you fair maidens did nigh unto swoon with the sobbing pathos in the voices of the manly four. Uh Huh! "Quiet Yehudi! You'll have to wait."

But wait, for the matter not ending there, what foul plot was then

again conceived to separate these friendly little fellows at the banquet that night. Shucks, what were they thinking of. They must have got their signals crossed. With what consternation were the celebrities at the speaker's table afflicted as they were confronted by sweet beaming faces (reading from left to right—Woods, Brown, DeMoney, and Speth) raised once more in glorious musical exaltation of the wonder that is Armour's issuing from an adjoining table. And with what dismay did they greet the ever increasing flow of requests from nearby tables. Truly, it was with no little pride that we received the distinguished offer, tendered by MacMurray's fair haired boy, M. C. Harold Gibson, to stand in recognition of being...no, not the smartest...or the largest...or the oldest...but, glory be, children...the noisiest delegation to the convention. But yes...the wheel of fortune turns and turns, and where it stops nobody knows.

Burma-Shave

Now any fair report of aforementioned conference should surely analyze the situation insofar as the display of pulchritudinous attraction is concerned. (No, kiddies, it wasn't an oil painting.) Yes, indeed, ten to one wasn't a bad average at all; especially when... "What's that Yehudi? You want to express yourself now?" Well, now, in the words of Yehudi.... quoth he: Mmmmmmm! Unquote.

CO-OP NEWS

E. P. Hannaka

Co-op Exhibit—Machinery Hall

As their contribution to Open House, the Co-ops of Armour again present an industrial exhibit designed to give visitors a better understanding of the five year Co-operative course. Of the 117 companies who employ Co-ops, 35 have generously loaned us special pieces of equipment, working models, dioramas, and photographs of their Co-ops taken under typical working conditions.

The first class will be graduated in February of 1941, thus completing the first cycle of a series of studies and events that has firmly established the Co-op course as a respected institution at Armour. The regular day school students have been particularly helpful in encouraging the extra-curricular activities of Co-ops and as a result, Co-ops are to be found in every branch of the school's activities. It is to be hoped that this close bond between regular students and Co-ops will continue and be strengthened as time goes on.

From all indications, the freshman class promises to be one of the most progressive on the campus. Officers were elected during the fourth week of the term and as is our custom, we are happy to shower bouquets on the following men:

Ellsworth Packard, president.
Arnold Kramer, vice-president.
Robert Date, secretary.
Richard Biedermann, treasurer.

The flood of application blanks for membership to Wranglers that poured into the Co-op office just before the 5 o'clock deadline last Thursday has convinced the club's founders of the ultimate success of their pet project. The first group of initiates will be notified by mail of their election. The other applicants will be invited in from time to time as the club's program widens its scope.

Was Prof. Lease's face red (and we do mean red!) when Dave Whittingham pulled off his "Rosalie" joke. Witnesses present included Miss Haw, Prof. Lease's comely secretary, Ray Getz, Fred Krahulec, and this columnist. Don't fail to have Dave give you his own personal account of the exploits of Rosalie. It's a treat you'll long remember. Man, and how!

Dr. Potter, our effervescent little pedagog, is just one

PLATTER PATTY

By Bob Saigh

"The Woodpecker Song"—"Say Si Si," Gene Krupa (Columbia, 35408). Gene Krupa adds his bit to the continued popularity of "The Woodpecker Song" with this recording. A rather remarkable change was noted in the band's style in the absence of Gene's excessive drumming. The change seems to be for the better. "Say Si Si" lacks a vocal, but otherwise is all right.

"The Singing Hills"—"Devil May Care," Bing Crosby (Decca, 3064). John Scott Trotter and His Orchestra blend well with the husky, mellow voice of Bing Crosby in presenting their best record of the year. The words and lyrics are well suited to Bing's voice.

"Tuxedo Junction"—"Danny Boy," Glenn Miller and His Orchestra (Bluebird, 10612). Tuxedo Junction is the number that today is making the feet of many a person starting cutting a rug on a hard wood flooring. The current favorite of swing, Glenn Miller, has made the best waxing of this number so far. With sweet swing on the other side in the form of "Danny Boy," a well balanced disc was turned out.

jump behind his pre-junior physics class. Observing that the homework record of his ambitious scholars showed more blank spaces than checks, he immediately launched into a brilliant dissertation on the value of doing homework, the penalties for not doing any, and his amazement that the Co-ops should be so negligent. And as his eyes surveyed the list, he came upon the name of George Cooper, whose record of blank spaces overshadowed the rest. Forthwith the stream of words was directed toward this poor unfortunate. Later during the period, on a call for a recitation, the good doctor discovered that George was absent—his first absence at that. Some guys get all the luck....

Our good friend Paul Koenig, 4B, who is overly fond of sleep anyway, will miss this delicious recreation for a full week. It's all part of the initiation ceremonies for Theta Xi social fraternity. Hillard Strz and Rudy Rieder have decided to postpone their initiation until later in the year. . . . The barber shop quartette which has been enchanting the boys of the 3B drawing class (Mr. Cowie's, by cracky!) has turned out to be a trio formed by Don True, Arthur Duree, and Ken Stromberger. Their music features many minor strains, some of them a little too minor with a little too much strain. A great many Co-ops will be seen at the Junior Informal Friday night, and mark my words, we're going to have one great time there.

Here's Our "Bid" for Your Company

JUNIOR INFORMAL at WESTWARD HO

Johnny Gilbert's
Orchestra

May 10, 9:30-1
Bids \$1.75