Install New 450 H.P. Lasker Boiler

School Growth Requires Plant Enlargement

A modernization and improvement program for the Armour heating and power plants, which will cost \$25,000, was started last week. The improvements, which will provide a new and more powerful stoker-fired boiler, will be completed and in operation by the first of March.

Wrecking and removal of the old boiler, which started operating September 27, 1902, is almost comfired by a Harrington stoker. The last improvement to the old plant replaced the Greene type stoker by the Harrington type.

Larger Plant Needed

The new plant will include a 450 horsepower Lasker boiler and a Detroit multiple retort stoker. Mr. Lasker, builder of the boiler, is in complete charge of the installation. Brickwork and foundations of the boiler will be done by the O. H. Warwick Co.

Increasing the size of the plant is necessary due to the growth of the school in recent years. The plant supplies all the electrical power used at the Institute, generating over 10,000 amperes during peak load. The exhaust steam is used to heat the Institute's buildings.

Forced Draft Type

The new boiler embodies all the latest improvements in boiler construction. A feature of the boiler's design is the cooling of walls by a circulation of water through a lining of pipes. This is necessary due to the excess heat generated by the forced draft type of boiler. The boiler will have three drums, the steam being taken from the top drum, which is well above the water level, thus insuring dry steam at all times.

Mr. John Allen, stationary engineer, who lit the first fire in the old boiler, will be in charge of the plant operation.

Prof. Freeman Talks on First Program of New Science Series

Opening the third series of its type last Saturday evening at 7:30 p.m. over station WCFL, the electrical Payments will be accepted every Monengineering department presented the first program of its applied science series. Ernest H. Freeman, professor and director of the department of electrical engineering spoke on the "Contributions of Things Electrical to Our Civilization." The programs as in the previous series, are under the direction of A. P. Schreiber, publicity officer.

In his talk Professor Freeman attempted to readjust the audiences' perspective, comparing present condi- | icals. tions to past conditions in order to illustrate that which electricity has accomplished. Developing the history of electricity and the manner in which man strived to domesticate it, he then expressed the actual means by which it was conquered.

ity was put was the carrying of mes- | their new comedy "The Proposal." sages by telegraph," Professor Free- Guild officials were of the opinion that man continued, "the investment in the play, originally scheduled for a this business is five hundred millions presentation on Jan. 19, should be of dollars." "The telephone is now the staged sometime during the second most popular means of transporta- week of the new term. tion" over which there are about

the telephone industry which repre- girl, Natalya. The sets are nearing sents an investment of over seven bil- | completion, costumes and the various lions of dollars, he then spoke of the props have been provided, and the time saving element which he esti- members of the cast are now well mated at two and one half days for | versed in their lines. All that recountry.

He stated that the second principle | tically ready for public approval. to which electricity was put was that of lighting. The manner in which it affects our work and play at night advantages were then discussed.

a sequel to this talk will be presented next Saturday evening with Doctor Freeman again as guest speaker.

Horner to Present Poulter with Award

Hon. Henry Horner, Governor of Illinois, will present Dr. T. C. Poulter, Director of Armour Tech's Research Foundation, with the Congressional Medal for polar exploration at a formal banquet in the Red Lacquer Room of the Palmer House on Jan.

Rear Admiral Richard E. Byrd, Rear Admiral Hayne Ellis, Commandant of the Ninth Naval District, and Brigadier General Philip B. Peyton, Commanding General at Fort Sheri- new arrangement. pleted. The boiler being demolished dan, will be present. There will also is a 350 horsepower Stirling boiler, be present representatives of the colleges, universities, scientific and engineering societies, business, and the government service throughout the country.

Junior Formal War. 5: Choose Claridge Band

Palmer House Ballroom Will Provide Setting

Discussion of the plans for the Junior Formal featured the meeting 9 a.m. to 3 p.m. which was attended by about onethird of the junior class last Friday. The social committee announced that after an extensive survey of the musical field, Gay Claridge has been retained to furnish the music. This orchestra is well known to college students, they having played for several functions held by the University of Chicago and De Paul.

The spacious Grand Ballroom of the Palmer House will be the setting for four and one-half hours of dancing. The \$5.50 bids include a \$4.50 dinner and take care of all checking and waiters' tips. Bids may be purchased from any of the officers of the junior class or members of the social committee composed of B. Anderson, chairman, I. Footlik, W. Stuhr, and D. Jacobson.

Bolton Anderson states that he has made arrangements with a firm of tailors to furnish special low rates to those students who wish to rent tuxedos. Single breasted suits may be had for \$3.25, double breasted suits for \$4.25, and tails for \$5.00 or \$7.00. Plans were also formulated whereby anyone wishing to buy a bid on the installment plan may do so by making payments of fifty cents or more. day or Friday by L. Bain in D Mission from 12:30 to 1:00 o'clock.

Toward the end of the meeting one of the chemicals moved that the junior class should appropriate money to buy medals for their touchball champions. After much discussion, twenty five dollars was appropriated to buy eleven medals for the chemicals whose victorious season was marred only by their scoreless tie with the sophomore chem-

Comedy Postponed by Armour Players Guild

After lengthy discussion, the Armour Player's Guild decided last "The first service to which electric- | Wednesday to postpone the opening of

Primarily, the reason for the postthirty billion conversations annually." | ponement is the difficulty in getting a Emphasizing the enormous size of capable actress to portray the Russian every man, woman, and child in the mains is the filling of that lone feminine role, and the play will be prac-

The annual Player's Party was also discussed in the meeting. An attempt is being made this year to hold the and the modern illumination and its party elsewhere than in the Mission. is just what should be avoided. The methods would be inappropriate. ed by Dr. Roethlisberger and of-all students is that because the wash A committee consisting of S. Kreiman, The second program of the series, C. Mac Aleer, and B. Sternfeld were appointed by M. Pantone, Guild president, to plan a gala evening about the first of the month.

Advance Registration Announced by Heald

H. T. Heald, acting president of Armour Institute, announced last week that students, exclusive of incoming ones, may register during the week of January 17 to 22 inclusive for the coming spring semester. This registration week is in addition to the regular registration days, February 3 and 4. This extra week is for the purpose of avoiding confusion and waiting on the two regular registration days, and students who are reasonably sure of their program next year should take advantage of this

The procedure of registration is as follows: make out a tentative program from the programs posted in the foyer of the Main Building. Then fill in registration card and in return receive class enrollment card and bill for tuition and fees from the Registrar's Office. The student is then requested to pay his bill in the Cashier's Office on the second floor of the Main Building.

When the above procedure has been completed, students may enroll in classes on Saturday, January 22, from 9 to 12 o'clock; or Freshmen and new students on Thursday, February 3, 9 a.m. to 3 p.m., and all others on Friday, February 4 from

Further information may be found on the bulletin board.

Dr. Poulter Goes on Lecture Tour

To Deliver Eight Lectures on Pressure Research and Polar Trips

To a large group of listeners in midwestern and eastern cities, Dr. Thomas C. Poulter, head of the Research Foundation, will deliver a series of eight lectures or more in all, on a tour during the next week.

Dr. Poulter started on his tour yesterday afternoon with Minneapolis as his destination. He is schedday at the University of Minnesota. With the exception of these two lectures, the remaining lectures will be addressed to various engineering and chemical societies.

Wisconsin, New York on Itinerary By tomorrow Dr. Poulter will be in Madison, Wisconsin, to deliver a lecture there. After this, he will head for Appleton, Wisconsin, prepared to deliver two lectures the following day. Milwaukee will be his next goal, and one lecture will be given in this city. Four days later, he is to be in Buffalo, New York. Two lectures will be delivered there, or. Tuesday, January 18, and the following morning he plans to be back heme again. His lectures are to be concerned with two subjects: the developments in the ultra-high pressure field of research, and the scientific phases of his polar explora-

500,000 Lb. Bearing Pressures

The ultra-high pressure field has much to offer, particularly in the search for efficient lubricants. A very well known complaint of the lubricant engineer has been that the automotive engineer wants an antiwelding compound, rather than a lubricant. Pressures as high as 500,-000 pounds per square inch have been developed within bearings, and this has all sorts of unpredicted effects upon matter. Water, at a somewhat higher pressure, becomes a solid harder than ordinary ice, with a melting point above 100 degrees Centigrade, and this is now known as ice VI. At even lower pressures than 500,000 pounds per square inch, other liquids solidify; and, should they be in suspension in a lubricant, they will add to the friction and abrasive action already present.

in many more remarkable facts.

Deadline for Senior Cycle Pictures Set at January 15

The Senior Jewelry Committee has started a precedent among the other committees of successful operation. I Thomas, chairman of the committee, reported last week that their efforts were successful in selling a large amount of jewelry. This is partly due to the fact that they were also able to reduce the price on the 10 karat gold ring to a level \$1.30 lower than last year.

Louis Lange, chairman of the phosenior pictures must be taken by January 15 if they are to be included in the Cycle.

Annual Architectural Memorial Scholarship Endowed by Alumnus

Armour Institute of Technology has established the Dora T. Bartlett Memorial Scholarship which will be awarded annually to a worthy student in the Department of Architecture. This scholarship, just presented by Frederic Clay Bartlett, Jr., alumnus of the Class of '34, is named for his late mother, long a prominent Chicagoan. The scholarship covers the full tuition for one year, and is assigned by the President and the faculty of the Architectural Department.

The course of study in which the scholarship is to be applied is presented at Armour Institute in a particularly effective manner, since a great many of the Architectural studies are given in Chicago's world famous Art Institute. By virtue of wise be readily available. It is this | lered Risk Underwriting." tecture is basically a fine art with an | terest to the fire protects since it will engineering foundation that makes | help to supplement the routine knowltunities for study in America.

Sophomores Present Winter Frolics Friday

Ninety Compete for Frosh Scholarships

The semi-annual freshman scholarship examination, in charge of the Freshman Scholarship Committee, was held last Saturday, January 8, from 9 to 12 o'clock in Science Hall. tography committee, anounces that all | The largest group of mid-year candidates who have ever taken the test ninety-were welcomed beforehand by acting-president Heald, who gave a short talk concerning college life at Armour Tech. Dean Tibbals addressed the aspiring high school students and gave them directions for taking the examination.

After the three-hour quiz, the men were divided into groups and were entertained at lunch by the social fra-

The mid-year scholarships, five in number, will cover a full year's tuition, each having a cash value of \$300. The awards will be based upon the candidates' scholarship records and extra-curricular activities in high school, personality, and general fitness of the candidates, and their showing in the competitive examination. The latter included questions on physics, chemistry, and mathematics.

Fire Protects to Hear Lecture on Underwriting

Mr. R. K. Hill of the Springfield Fire and Marine Insurance Company this fact the student may pursue his will address the next meeting of the studies in an artistic environment and | fire protection engineering society to also have at hand the many special be held next Friday, January 14, at exhibits and collections of architect- 10:30 in room C Mission. The subural interest which would not other- | ject of Mr. Hill's talk will be "Sprink-

recognition of the fact that Archi- This topic should be of special inthis subject, as a department of a edge of sprinkler systems and dry technical college, unrivaled in oppor- pipe valves with a conception of how they affect the insurance on a risk.

uled to deliver two lectures there to- Regional Social Security Board Head to Open Annual Conference Course

will consist of a dinner at 6:30 fol- business cycle. lowed by the discussion of the

First Speaker



Mr. H. L. McCarthy week's subject by a leader in the field, and also by the attending executives, who will range from superintendents to presidents of the enrolled organizations.

This new type of course was suggested by Alfred L. Eustice, memattention of executives in recent

"Executive Control of Personnel" | years: -wise management of perwill be the subject of the second an- sonnel which has assumed special imnual conference course offered by portance during periods of business Armour Tech for operating execu- recession and which gives the opportives. Conferences will be held week- tunity for stocktaking of policies for ly on Monday evenings, beginning the improved handling of new busi-January 17, and continuing for 12 ness. The conferences will emphaweeks until April 4, at the Palmer | size the adjustment of personnel pol-House. Each meeting of the group | icies to the changing phases of the

Donald R. Richberg Is Speaker

Donald R. Richberg, former director of the N.R.A., is one of the best known of the roster of speakers for the conferences. He has a unique background from which to give operating executives a perspective as to what Washington is trying to do in the labor field. Another speaker prominent in government work, H. L McCarthy, regional director of the Social Security Board and former member of the Chicago Regional Labor Board, will open the course with his discussion of present day industrial relations.

The president of the Industrial Relations Association of Chicago, John A. Stephens, will speak on practical training programs for increasing the skill of workers. That he is qualified to talk on the subject is evidenced by his work as manager of industrial relations for the and wash room are being remodeled, Carnegie-Illinois Steel Corporation, all gym classes have been dismissed Johnson O'Connor, writer and speak- until the showers are again ready for er widely known for his original and use. The shower room is going to be useful placement work, will discuss modernized and the number of facilthe selection and advancement of ities is going to be increased. employees.

Glenn Gardiner, for many years

(Continued on page three)

Emil Flindt to Provide Music in Spacious Ballroom

Emil Flindt and his popular orchestra will provide their distinctive rhythm at the annual sophomore dance to be held in the Grand Ballroom of the Medinah Athletic Club next Friday evening. Appropriately titled "The Winter Frolics" it will be the first event on the 1938 Armour social calendar. Unique music coupled with the excellent location explains the 350 bids now in circulation.

The entire seventh floor of the Medinah will be at the sole disposal of the Techawks for the whole evening. It includes a large and beautiful foyer, heavily carpeted, softly lighted, and outfitted with comfortable lounges. The Grand Ballroom, recently redecorated, has a superb flooring of recent construction. A large balcony flanks the dance floor and is available for the couples that enjoy "sitting out" a dance or two. Private elevators will take the Techawks up to the scene of the evening's dancing, where ample checking facilities have been provided. A crowd of 600 is expected with the capacity of the Ballroom set at 1500, insuring ample room.

Flindt's thirteen piece orchestra has in its repertoire all of the Armour songs besides their regular distinctive arrangements. Several vocalists will lend their share of talent to the evening's entertainment. Flindt left Oh Henry Park at the close of the year, depriving the south side of one of their most popular orchestras.

The bids are a combination of brown suede and veneer, making a distinctive memoir of an enjoyable evening. They are priced at \$1.50, the lowest figure ever quoted at an Armour dance that boasted Flindt's orchestra. The arrangement of this event has been handled by the sophomore social committee under the guidance of E. Worcester, social chairman.

Senior Mechs Meet to Plan for Reunions

Gathering last Friday at 10:30 in C Mission, the senior members of the mechanical department elected the following officers to take charge of reunion activities after graduation: S. Gryglas, president; E. W. Menke, vice-president; and J. L. DeBoo, secretary treasurer. Menke was appointed chairman of the constitution committee and will organize the future plans concerning meetings, dues and other data. Tentative plans provide for semi-annual

reunions. The purpose of the organization is to keep the class together, to foster loyalty to their school and to enable them to aid each other after graduation. The constitution will be presented to the senior mechanical class as soon as it is completed. In calling the meeting the mechanical class distinguished themselves as being the first class to provide for postgraduation activities.

Install New Showers in Fifth Floor Main

Because of the fact that the shower

The work on the showers was originally planned for next summer beber of the Institute's Board of Trus- the president of the National Fore- cause of the inconvenience it would Sometimes they may, as little par- tees and President of the Economy men's Club, is scheduled to speak on cause during the school year but unticles, wipe away the lubricant, and | Fuse Company, as being one suitable | the training of supervisors and fore- | avoidable circumstances made it necclear the way for actual contact be- for presentation to operating execu- men. "Social Attitudes a Factor in essary to take care of it immediately. tween the two metallic parts, which tives, busy men for whom classroom Industrial Relations" will be present. Another fact of vital importance to attainment of pressures as high as Prof. H. P. Dutton has arranged the ficials of the Western Electric Com- room facilities on the fifth floor have 1,500,000 pounds per square inch in program of the conference. The pany. Dr. Roethlisberger, of the for the present been put out of use, the Research Foundation Labora- theme of the coming conference is Graduate School of Business Admin- freshmen will be allowed to ride the tories here, last May 28, has resulted one which has received increasing istration at Harvard, has been work- elevator from 2:30 to 4:80 o'clock every afternoon.

PI TAU SIGMA

Pi Tau Sigma is a national honorary fraternity which was founded jointly by mechanical engineering students of the Universities of Illinois and Wisconsin. The fraternity was founded, "In order to establish a closer bond of fellowship which will result in mutual benefit to those men in the study and in the profession of Mechanical Engineering, who, by their academic or practical achievements, manifest a real interest and marked ability in their chosen work."

The object of the fraternity is to foster the high ideals of the engineering profession, to stimulate interest in coordinate departmental activities, and to promote the mutual professional welfare of its members.



Members are selected at two elections during the academic year. At the fall election 50% of the senior mechanical class is eligible and 25 % of the junior class is eligible. At the spring election no seniors may be elected and 33% of the junior mechanical class is eligible.

Scholarship, of course, is not the only basis of selection. Character, personality, and activities are also major considerations.

The colors of the fraternity are azure and murrey and are emblazed on the pledge button. The button has the shape of the Carnot Cycle which is emblematic of the highest possible efficiency. fraternity key also has this emblem upon it.

An annual convention of the fraternity, as well as a yearly publication called the "Condenser," serve to bind the fraternity together firmly.

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Fraternity Notes

TRIANGLE

Brother Richert, national chapter inspector, paid us a welcome visit just before the holidays. He visited the school and talked with the professors concerning our standings. . .

The New Year's Eve party was quite a success if that is to be measured by noise produced. On the day before the party, when no one was around, Brothers Hock and Macdonald, motivated no doubt by some impish impulse, strewed mistletoe about the house with a free and lavish hand. The erring brothers reaped the full reward of their foul deed. Otherwise all was quiet and peaceful. .

PI KAPPA PHI NOTES

Our Christmas Dance was very successful and was a fitting climax to our 1937 season. We held a smoker Wednesday the 28th which was well attended by the town men.

The Pi Kappa Phi Eleventh District Conclave will be held here at Alpha Phi Chapter this February, probably the week-end of the 16th. A tentative program has been set up, and the Committee on Arrangements has promised many excellent speakers and a well planned entertainment program.

DELTA TAU DELTA

We are pleased to announce the pledging of

Delano Wessels, '41

Although election of officers comes off next month, Paul Ransel has been elected treasurer for the coming year.

for a few minutes of time now and then.

January 6, 1937.

Armour Tech News Dear sirs:

In response to the inquiry by the Tech News regarding what the fraternities wanted with respect to fraternity news, the Interfraternity Council wishes to submit the following suggestions. The fraternities desire that the present style column of fraternity news be discontinued | your diary. No! Time takes its toll | in favor of the previous plan by which each house had its own news regularly published in separate articles. To join the ranks of their predecessors, facilitate this, and to insure the readability of such news, it is further suggested that the Tech News appoint a fraternity editor or reporter to be responsible for the gathering and organizing of the material.

Fraternities at Armour have several hundred students in their membership, and play a very important part in extracurricular activities. It is no more than fair that they should receive a reasonable amount of attention by the Tech News. A student paper should gather and publish student news, but the Tech News does not gather fraternity news and has repeatedly ignored publishing such information as has been submitted by the fraternities themselves. The Interfraternity Council will give its fullest cooperation to the paper in this matter, and will appreciate the early return of "Fraternity Notes" as a regular feature under the control of a fraternity editor.

> Very sincerely yours, Al N. Schrieber, Secretary Interfraternity Council.

"To be or not to be" Fraternity Notes

Fraternity men apparently believe the Tech News to be anti-Greek. To leave the letter on this page without comment would be an injustice to the staff.

It is true that for a number of years each fraternity had its notes under separate heads. The only reason for changing the form of presentation last year was to correlate fraternity events and to make the notes more readable and interesting to the entire student body.

The Tech News does not cater to any campus organization or group. It is true that reporters are not assigned to gather fraternity notes. However it is our understanding that each fraternity has a scribe whose work is to supply the paper with information.

Fraternity notes have not been "ignored." The notes have in a few cases been prepared and ready for publication but have not been used because of a surplus of more readable material from our viewpoint.

Notes as received from the fraternities are often written carelessly on scratch paper. fraternity notes are rewritten so often that it seems ridiculous to hear complaints of a change in typographical form. If each fraternity wants its name in bold letters alone on a line, we will be glad to print it at our regular advertising rates.

In this issue the notes are written in the form desired by the fraternities. Incidentally five of these seven were written by staff members after our deadline at 5 p.m. last Friday night.

Fraternity notes will continue as a feature at the discretion of the staff. A fraternity editor will be appointed but the Tech News has no intention of disrupting its editorial policies for any individual group.

a bang-up New Year's Eve party were the latest social events at The Shelter.

SIGMA ALPHA MU

Following the close of school for the Christmas holidays fra Al Schrieber and fra Irv Schifke spent a week end at our University of Illinois chapter. Their appearance upon returning to Chicago indicated an exhausting spree which they attribute to a skating party, formal dinner dance, a banquet, and a tour of the school all packed into two full days.

Fra Schlifke also attended our national convention at Cleveland, Ohio, over the holidays. The house celebrated the end of 1937 with a theater party to see "Brother Rat."

PHI PI PHI

We wish to congratulate Phi Kappa Sigma on its victory over our team in the interfraternity basketball tournament.

The mothers' club held a monthly meeting last Thursday at the house. They plan to have their next meeting at the Stevens Hotel.

RHO DELTA RHO

We have just finished the decoration of our new rooms in Chapin Hall. A house warming stag will be held between semesters; besides the actives and pledges, the majority of the alumni chapter will be in attendance.

Our tobogganing party scheduled for the Christmas mer. He says that the wedding can't holidays was postponed due to the lack of snow. It may be come off until he has the sophomore held between semesters in the event of a snowfall.

PHI KAPPA SIGMA

Members of the house are elated at taking Phi Pi Phi Forest went out New Year's Eve and in a recent inter-fraternity basket ball game. It is the somehow or other just couldn't find The new ping-pong table purchased by the house is first time in twenty years that the Phi Pi's have been his way home for the longest time. now competing with those increasingly numerous reports defeated, and we all consider it a privilege to have had this pleasure. Thanks for the keen competition, and the way home. A mothers' club card party just before the vacation and splendid display of sportsmanship.

The Slipstick

Cleave to the slipstick; let the slapstick fly where it may.

Two more issues and then . . . Eejay and Zazu write no more! No more will you laugh at their good, clean, funny jokes, sparkling humor, hark to their sagacious wisdom, clip and paste this column each Tuesday night into and so Eejay and Zazu must leave to to live only in the dank, dusty files, symbolic of the days gone by-soon to mould and crumble and then sold by some future circulation manager to a junk man for two-bits per hundred pounds. And to Eejay and Zazu this memoriam: R. I. P. Amen.

And now, of all times, comes an offer from some H. A. W. guy to supannum perhaps. Dear H. A. W.:

We love you. You're as welcome as a pledge-captain's broken neck, as ... man! You're welcome! Rise and shine!

went riding and only got one shoe | (Facts: "Here I am in Joe's place, is kidding at least 50 per cent of the muddy?"

"No, let's hear it." "Well, she reconsidered."

No. 2

"Can I?" "No!"

"Well, I will anyhow." "At least I've done my duty."

No. 3

Optimist-A ninety year old man buying a two-pants suit.

good for you.

Sounds in the Night

"Okay, kids, move along!" "Please shut up so Uncle Jerry can

sleep." "Now I know what the prof meant when he said I was dumb."

"Mama, Pa's sore."

"Gosh !"

Free Testimonials

Eejay-"I keep mentally alert by eating Munch-Crunch. And it grows hair tool"

Zazu-"My scholastic standing, my sense of humor, all I am I owe Munch-Crunch."

Munch-Crunch for lunch. Eejay and Zazu.



The belated Christmas present that the seniors received on the Emerson Prize was not all lemons and grapefruit. Litwin got a Mention and Davidson and Cunningham received Half Mentions. This is the first time in three years that the department has rated on the Emerson.

These same marvelous seniors went out to Skubics' summer home for the day, catching up on their ice-skating. The exuberant SONJA BAKER gave an exhibition, but had only one pair of skates and they were on his feet, so he had a hard time doing some of his tricks.

MISS PARKHURST is an expert mathematician . . . MR. HARPER was once lost in a fog while flying and finally landed in safety with but one quart of gasoline left in the tank.

Horton, although he is a sophomore, still wears his gloves baby-fashionwith the string through the sleeves like you once wore.

Skating reminds me that MR. MELL is being put on ice very soon by a fair lady that he met this sumproblem finished.

The mild Lumber Tycoon of River This is where I'll try to find my

This last bit may make you thirsty.

ART GUM.

Cold Blooded, Ironical Professors Prove Impervious to Pathetic Pleas

By Robert Perry

The process of submitting to quiz is not precisely pleasant and apparently a professor after long years of delivering quizzes becomes completely impervious to the anguished cries following the announcement of each quiz. No professor has ever been known to waver from his fixed course succeeding anguished howls of, "What! A quiz Thursday Proffy? We got three other quizzes and a heavy mumblety peg tournament up on that day." The professor, with the icy sneer to which all instructors fall heir to, merely shrugs his shoulders and no doubt refrains from beating his wife ply us with three jokes per week per that evening as a sop to his feebly protesting conscience.

The whole examination system is fundamentally wrong in any event. A simple application of the scientific system which all engineers know, and proceed assiduously to forget, since Dr. Alexander A. Schneiders, the the application cuts seriously into bachelor girl who tells you that she the time spent in the local dens of in- simply loves her work and wouldn't "Did you hear about the girl who iquity will definitely prove this. think of leaving for home or family, what a hole!" Organization: "I time. don't like Joe in the first place, I don't like these refreshments, I don't | the free will," he said. "The girl -HIC-think an'body loves me. sob." Generalization: "I don't like anybody in the whole worl'." Explanation: ? ? ?) That was a par-'enthetical insertion somewhat deviating from the original subject which, she will admit. in the order of Professor Freud's parenthetical discourses, end up by she simply is not interested in men getting somewhat out of hand and constituting entire lectures by them-

The original subject two paren-

a chronistic system. The redletter day the quiz was switched from that given two periods previously, and the day that the quiz for which all essential formulas would be given turns out to be a quiz for which the Professor regards all essential formulas to be embodied in the philosopher's stone of one solitary formula. Of course all enlightened people now realize that examination grades are no real index to a student's capacity for a subject and grade accordingly. And of course all instructors at Armour have the inherent capacity for study, and of course-therefore everyone passes. Which may or may not be recognized a laboring irony.

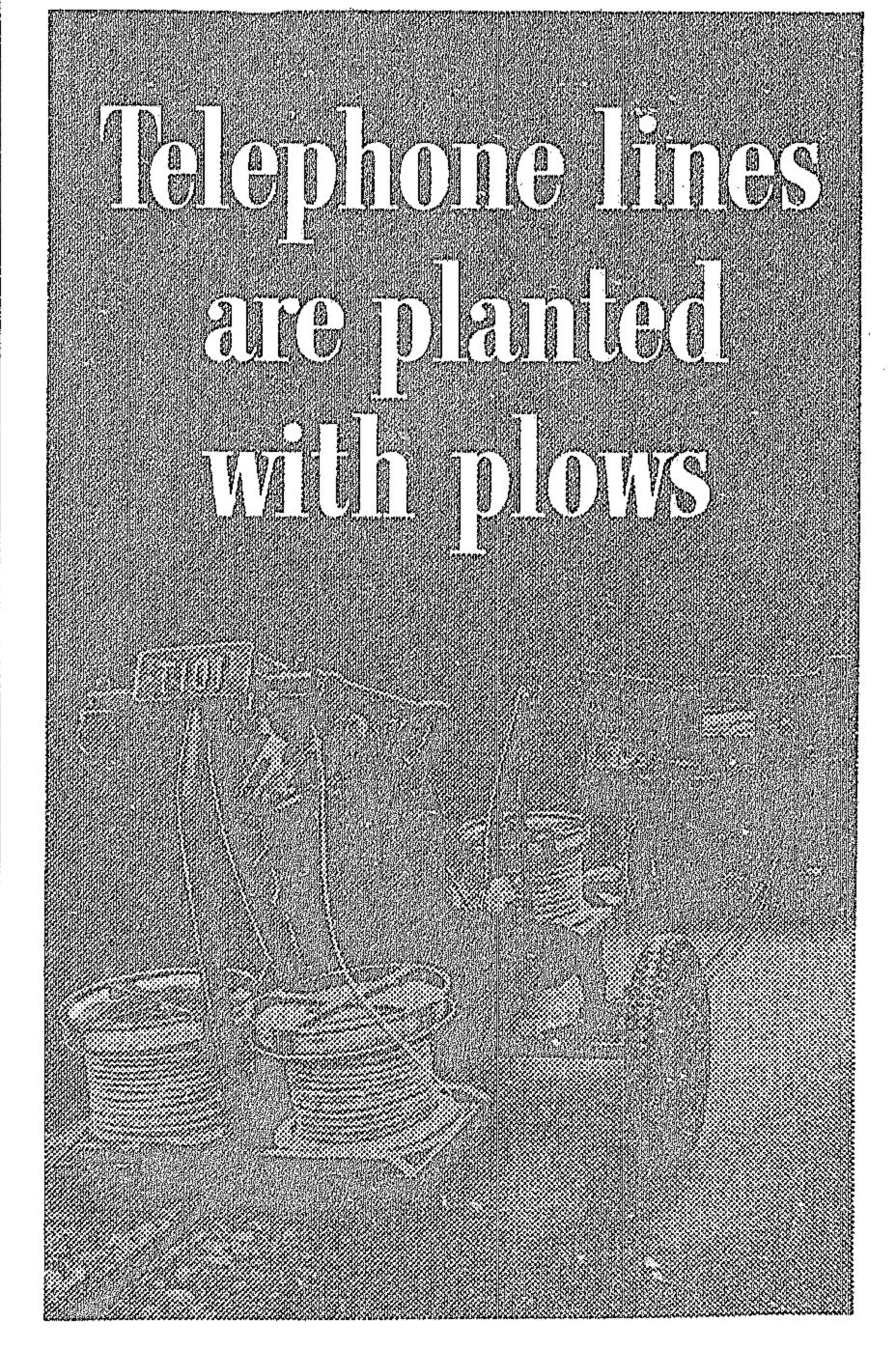
Women Who Love Work Are Kidding, Says Psychologist

Chicago, Ill.—(ACP)—According to a Loyola University psychologist,

"It goes back to Freud's theory of may have had a frustrated love affair, she may fear that the man she marries will dominate her or she may have a dozen other reasons, all in her subconscious mind, and none of which

"The chances are that she will say or perhaps that the right man never came slong. In her case no man would be the right man."

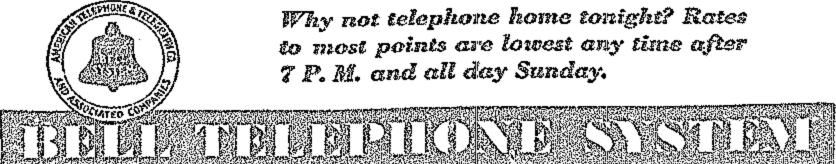
And after hurling this gauntlet in Eat Munch-Crunch for lunch, it's theses marks back, was the feeble the face of emancipated women, Dr. cry of protest from one who has suf- | Schneiders leaned back, safely enfered abominably under the ana-sconced behind his psychology books.



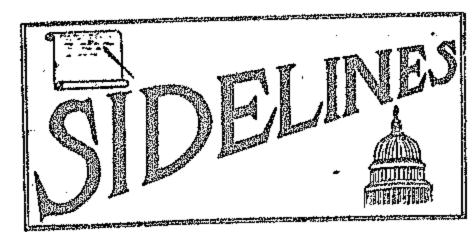
TOURAL telephone wire—not in cables—can now ALL go underground where bad weather and grass fires can't harm it.

To make this possible, an entirely new kind of wire had to be developed. Special insulating compounds, special splicing methods were devised. Then a simple, economical method of burial had to be found. A special plow solved this problemone that digs a furrow and tucks away the wire in a single operation.

Just one more step in the process of making Bell System service constantly more dependable.



Why not telephone home tonight? Rates to most points are lowest any time after 7 P. M. and all day Sunday.



By A. N. Schrieber

Blood Etches World

The tapestry of world events has become more vivid and more intense as the past has fled from the future. Each day the color of blood red more deeply etches the pattern of the tapestry and brings out in bold relief the fundamental struggle between man and man. It is the death battle between totalitarianism by which the state controls the people, and democracy by which the people control the to the Institute, but also because of

state. The principles of facism, communism, and nazism have been gaining in strength at an ever accelerating rate throughout the world, especially in Europe and South America. Democracy, on the other hand, has been losing ground. Can it be that totalitarianism offers a more satisfactory way of life than democracy? Dictators would lead us to believe so. But the proof of the pudding is the eating, and dictators are trying to stop eating so that more funds will be available for armaments.

Russia Fails

Russia under Stalin is typical of U.S.S.R. during the World War was an attempt to correct the social evils of the Czars. Today this idealism for human justice has resulted in a ruling clique for more vicious and uncompromising than any Czar. People in Russia are treated as biological units to be fed, clothed, worked, and killed according to the dictates of one man. Opposition is intolerable. No one can read current commentary on present day Russia, such as Assignment in Utopia by Eugene Lyons, without a deep feeling of sympathy for the Russian people who have been misled into the success of technology and mass discipline and also into the failure of losing their souls in mass regimentation.

Germany, Italy, and Japan are no different from Russia. For the price of a completely unified government, the Russians, Germans, and Italians are now slaves in the bondage of power drunkards.

Freedom Requires Defending

We in America are not fully conscious of our good fortune, and accept our freedom as everlasting and indestructible. It is true that no one can make a coup as did Hitler and Mussolini and say, "America you are no longer free" by assuming dictatorial power. But we can be led into such a state by small seemingly inoffensive events which gradually usurp the freedom of the masses. During the past five years events of this nature have repeatedly occurred in Washington. The rising control of the government in business has wrought havoc with our business leaders, and our social agencies have laid the foundation for regimentation.

Do we need fear dictatorship in this country? No! But our freedom can be seriously impaired if we allow the continued growth of socialistic forces for centralized control of government and business. The American people are, in a conflict of their desire to rule and their desire to be ruled. Every citizen must accept the personal responsibility of fighting for his freedom in a struggle that will become increasingly violent in the next few years.

Technological Leaders Needed

Since our advancing technology is far from integrated with our social habits and is perhaps at the crux of world chaos, we who are engineers must assume positions of leadership and meet future technical problems with a broader social point of view than in the past. Only by such concerted effort can we promote the ultimate happiness and peace of mankind.

Crum and Forster Makes Finnegan Jr. Special Agent

surance Association.

Prof. Krathwohl Freshmen Tests

Analysis May Solve Some Students' Faults

Many students have wondered about what happens to those tests which they took in September and which were their first introduction to college life. The story of the September tests is an interesting one, not only because such tests are new the useful information they impart and because they show how mathematics is used in places where one would least suspect it.

Immediately after the examination the tests are taken to a small room in the Mission which, with one exception, they never leave again. This is done because all test information is regarded as strictly confidential.

Students Grade Papers

The papers are scored by a group of students who are chosen for mental alertness, reliability, neatness and ability to keep information to themselves. Scoring is done by means of a key, which is a slip of dictatorships. The formation of the paper on which the answers are printed in the same position as they occur on the test paper. The key is placed next to the answers and then the scorer puts a dash opposite such numbers or names as agree with the key, and a cross where it is necessary to mark wrong answers. In this way a scorer can with little effort and without knowing what the questions are, correct as many as 1000 answers an hour. On a busy day the scoring room looks like the assembly line of an automobile plant. The tests start at one corner of the room, travel down one long table, up another and come out completely taken. scored.

Errors in scoring with an experienced crew occur but seldom, and | Conference Courseare caught at once by an assistant who acts as a checker. Competition is keen among the scorers, since each one has a turn at checking to point out the other man's mistakes. When all the papers of an examination has have been corrected, the assistants get practice in addition by summing up the partial scores, after which the additions are checked on an adding machine.

Papers Are Given Relative Score

The next step is to arrange the papers in order of descending magnitude so as to get the rank order list which is copied by one of the secretaries of the Institute. This is the only time that the papers leave the office.

The rank order list having been compiled, an assistant who has taken a course in statistics, runs the computing machine and translates the scores, called raw scores, into understandable symbols. Meanwhile the rest of the staff start on another set of examination papers.

these understandable symbols are. use in their plants. In the informal There are two sets called percentile exchange of experiences at their rescores and derived scores. The per- spective companies, executives could centile scores gives the position of see their own work in a truer pera student with reference to the rest spective and could carry back pracof his class. Thus is a student has tical ideas to their companies. One a percentile score of 90 on the psy- firm saved more than the cost of the chological examination, he equals or course from a single suggestion exceeds 90 per cent of his class on which reduced their insurance prethat examination, and is equalled or | miums. Another firm representaexceeded by 10 per cent of his class. tive discovered from a fellow par-If he has a percentile score of 20, ticipant a method of solving his difhe equals or exceeds 20 percent of ficulties with tank corrosion. his class and is equalled or exceeded by 80 per cent.

Derived Score Computed

Derived scores are a device to measure the achievement of a student on an examination without penalizing him by an examination which is purposely made too difficult for him. In mathematical language derived scores are linear transforma- | representatives. tions of the raw scores. The ordinary examination which a student presided over by a man prominent in takes, is one in which his instructor | local business or personnel circles, believes that he can make 100 per as chairman and discussion leader. cent if he knows all that his instruc- James D. Cunningham, president of tor thinks he ought to know. How- the Republic Flow Meters Company; Joseph B. Finnegan, Jr., F.P.E. '32, ever examinations such as the psy- Samuel N. Stevens, dean of Univeris now special agent for the Crum and | chological examination are quite dif- sity College, Northwestern Universi-Forster companies, with office in the ferent. They are purposely made ty; and C. S. Craigmile, vice presi-Fletcher Trust Building, Indianapolis, too difficult for most of the students dent of the Belden Manufacturing Indiana. His previous service has taking them. Out of the thousands Company, are a few of the promibeen with the Illinois Inspection Bu- of students who take them each year nent industrialists and educators reau and the Western Factory In- only occasionally is there a genius who will be chairmen and discussion (Continued on page four)

Twelve Men Initiated Into Alpha Chi Sigma

Twelve men were initiated into Alpha Chi Sigma, professional chemical fraternity, in ceremonies held last Saturday afternoon. The six new senior members are: T. R. Green, R. B. Hallihan, E. L. Koehler, W. J Mirzvinskis, J. F. O'Connell, and C E. Sellen. The juniors initiated are: C. R. Adeszko, C. V. Peterson, W. A. Ryan, and E. F. Wagner. From the sophomore class, J. R. Meyer, and C. J. Ryant were initiated.

The initiates have completed a two month pledge period under pledge captain W. E. Kruse and have passed a written examination. After the initiation, the group of about forty active and alumni members had a banquet downtown at De Met's. Following the banquet they saw the play "Tovarich" at the Selwyn theatre.

Setterberg Asks for Senior Forms

placement records, according to in- the evening. formation from the registrar's office. The school is interested in having these records filled out by every senior whether or not they already have jobs in view.

Several firms have indicated that they will send representatives for interviews, and all seniors are asked to get the information in as soon as possible. Among the companies are Westinghouse Electric and Manufacturing Co., Graver Tank and Manufecturing Co. and Air Comfort Corporation. W. N. Setterberg, placement officer, states that since economic conditions at present are not too favorable, immediate action should be

(Continued from page one)

ing with Western Electric in determining the attitude of employees. Franklin H. Fowler, president of Foote Brothers Gear and Machine Corporation, will discuss the practical problems of enlisting the cooperation and loyalty of employees, at another meeting of the course.

Greenberg, Bergen to Talk

Labor history has been made by the successful relations of Hart, Shaffner & Marx with a labor union, and this success will be discussed by ity Field." Morris Greenberg, vice president and general manager of the company. Another of the conferences will feature the former director of industrial relations for Proctor & Gamble, Harold B. Bergen. Proctor & Gamble has been famous for enlightened labor policies, such as its profitsharing plan, and plans for selection of employees.

Last year's course in Plant Engineering and Maintenance demonstrated that participants in these It is interesting to know what conferences do carry back ideas for

Suggestions Received

Professor H. P. Dutton, director of the course, received many valuable suggestions from some of last year's participants, and these are to be incorporated in this second course. These suggestions by the executives indicate that such a course stimulates new ideas in the conference

Each of the conferences will be leaders.

Initiate Russell Kotal Into Literary Honorary Tonight

Sphinx Honorary Literary Fraternity will initiate Russell Kotal, junior electrical and make-up editor of the Tech News, tonight on the campus. The initiation ceremonies will follow a banquet in "D" Mission.

Chicago Chinese Students to Stage Play January 20, 21, at International House

"Flower of the Han Palace," written and directed by the distinguished playwright, Kenneth E. Foster, will be staged at the International House by the Chicago Chinese students on January 20, 21, at 8 p.m. The proceeds will go to the emergency relief fund for the innocent victims of the Japanese aggression.

Among the highlights of the performance are the Imperial Court romance of the Han Dynasty; the famous Mei Lan Fang Ballet, a travelogue of China; and the wedding procession which recently has won the highest praise in the St. Luke's Fashion Show. Social dancing in the | Mechanicals to Flear International House, one of the medium of promoting international More than half of the senior class | friendship to which the House is dedihave still failed to turn in their cated, will conclude the highlights of

> Tickets may be obtained from the International House or from the Armour Chinese students. Reserved seat prices are \$2.50 and \$4.00, all others \$1.00.

G. M. Ives to Present Talk on Television Before A.I.E.E.

"Problems Encountered in Television Transmission and Reception" is the topic to be discussed by G. M. Ives at the next AIEE meeting to be held at 10:30 Friday in the electrical lecture room. This talk continues the series of student discussions begun at a previous meeting by R. E. Worcester and E. Brown. These student talks are under the direction of G. A. Palka and E. Brown, chairmen of the program and student papers committees, respectively.

M. Pantone, chairman of the inspection trips committee, is to give a report on the available trips for the coming semester. It is expected that a decision will be made by the members in regard to the trips which through the efforts of Mr. Segeler and work making arrangements for the they desire to make.

search for the Public Utilities Re-

Armour Branch of W.S.E. to Hear Talk on Underpinnings

Mr. S. M. Gooder, of Henricksen Gooder, Inc., will speak to the W.S.E. on "Underpinnings," at its meeting Friday, at 10:30 in B Mission. He will concern himself with that phase of soil mechanics, which concerns itself with the calculations for foundations of buildings. Mr Gooder was associated with our civil engineering department before, at the time when the loading platform in the soil mechanics laboratory was donated, and he is known to the civils as the author of many articles in W.S.E. publications.

The last speakers of the W.S.E. were Mr. Becker and Mr. Benson of the city bridge design department, who spoke on the new Torrence Ave. lift bridge. At the conclusion of the lecture they invited the members of the W.S.E. to make an inspection trip to the site and to ride on the bridge.

Next Friday at the last A.S.M.E. meeting of the semester, Mr. John C. Segeler, assistant chief engineer at the University of Chicago, will discuss the University of Chicago's power plant. Mr. Segeler, who is a mechanical engineering graduate of the class of '28, will not only discuss the plant from a technical viewpoint but also from an economic viewpoint.

The plant itself consists of a steam generator, over a mile from the uni- | furnish music for the fraternity men versity campus, and a long tunnel for | and their dates at the third annual conducting the steam from the gen- | inter-fraternity formal dinner-dance erator to the campus. The generator | the 28th of this month. The scene of is one of the most modern in the the dance will be the Mediterranean country, containing very up to date room of the Lake Shore Athletic Club equipment. The cost of the entire and an attendance of about eighty plant was approximately one and couples is expected. As in previous three-quarter million dollars.

The program was arranged because of a controversy which arose among the senior mechanicals as to whether a centralized plant or an exterior generator plant was the more efficient.

Mr. M. K. Miller, director of re- his discussion.

search Commission, was the speaker | A.S.M.E. will view movies on steel | issue goes to press, the bids for the at the last meeting. Mr. Miller's top- | manufacturing showing all the stages | affair will be issued and ready for ic was "Research in the Public Util- in production from the unrefined ore distribution. These can be obtained to the finished product.

Foreign Films Viewed by Faculty Members

During the activity period last Friday, Professor D. E. Richardson of the electrical engineering department showed before a group of interested faculty members a few reels of the moving pictures he took during his trip last summer to the Short Wave Congress in Vienna. The 8 mm. pictures are one-third colored, the rest in black and white.

Professor Richardson had an intensely interesting trip. At the Congress, held last July 12-17, and attended by world-famous men in the fields of physics, medicine and biology, he was enabled to enlarge his views on problems pertaining to the short wave field, to meet famous scientists of foreign countries, and to visit internationally known universities, laboratories, and cities.

With his practically constant companion, a movie camera, he took pictures in Frankfort-on-the Meine, Giessen, Berlin, Jena, Erlangen, and Munich-all in Germany; Zurich, Switzerland, Paris and London. Included were side trips to Oxford and Saltzberg.

Famous institutions he visited were Lecture by Aluminus the Electro-Technical Institute in Vienna, the City and Guilds College in London, the Reichs Anstale (Bureau of Standards), and the Vibration institute, both in Berlin.

Inter-Fraternity Dance to Be at Lake Shore Athletic Club Mediterranean Room

Art Janke and his captivators will years, the dance will be limited to members of the social fraternities and will include a dinner in the price of the bids, which is \$5.50.

The Mediterranean room of the Lake Shore Athletic Club is known about Chicago for the view of the lake In conjunction with the meeting, from it and the grandeur of its apthe senior members of the A.S.M.E. pointments. For the past few weeks, will make an inspection trip of the the social committee of the interplant. This trip is being arranged fraternity council has been hard at will bring out all the high spots of affair. The chairman of this committee is H. C. Anderson of Phi Kappa Next Thursday at 1:00 p.m. the Sigma Fraternity. By the time this I from any member of the committee.

THIS STADIUM MUST BE A

WONDERFUL SIGHT FROM

IM YES, THERE ARE

OVER 80,000 PEOPLE

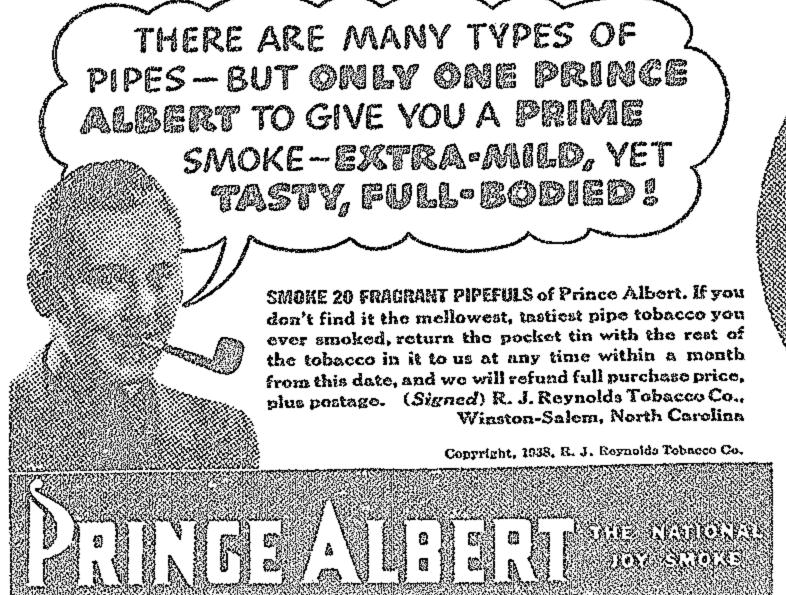
HERE TODAY FROM

EVERY PART OF THE

COUNTRY

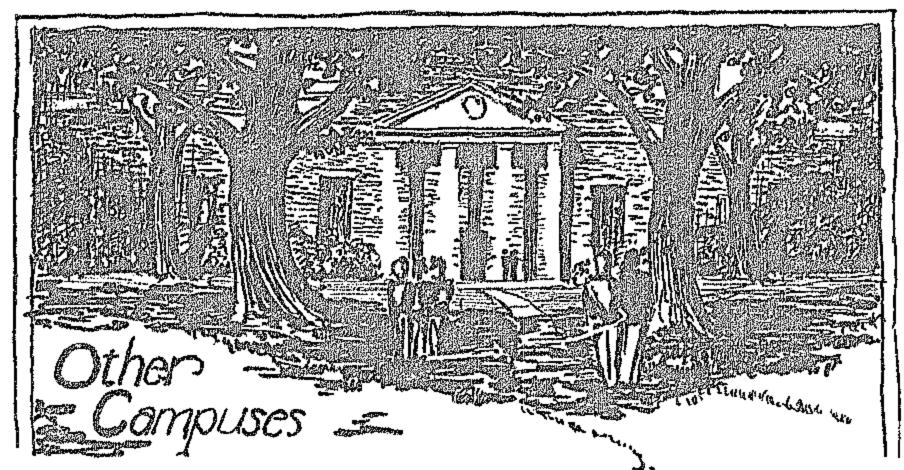








pipefuls of fragrant tobacco in every 2-oz. tin of Prince Albert



By James Hebson

Flying instruction in land grant colleges as a means of building up a reserve of aviators for national emergencies was advocated in Miami, Florida recently before air officials of forty states.

Speaking of lie detectors, a love detector has been devised by a University of Iowa professor. He has developed an "emotion meter" which he says measures the capacity of one's mood for love by the perspiration in the palm of the hand.

A giant microscope, weighing narly a ton and built on a new slowmotion focusing principle, was described recently at Hartford University. The focusing is accomplished by remote control.

Freshmen at the University

heavier and taller than the freshman

college believe in preparing their

Vital facts concerning marriage are

treated in a series of lectures spon-

Five University of Kansas stu-

dents, charged with having disfigured

property on the Kansas State College

school pact, are being tried before

Better automobile driving is the

aim of an auto course to be given

maining in the Big Ten Conference.

the Student Supreme Court.

at Louisiana State University.

class of 10 years ago.

"The great mass of American girls, is a student at Lebanon Valley Colfrom the girls at the department lege. store to the most elite, are much more beautiful than girls of foreign countries." Dr. Earl H. Bell, University | Vermont are on the average younger, of Nebraska anthropologist, is a loyal

Coeds at Marquette University are now receiving instructions on the proper technique of gum chewing students for "Life After College." from the dean of women.

Board and room for one month cored by the two schools. . . \$14. That is what it costs students living in co-operative houses at West Texas State Teachers College. Their success is causing officials to consider expanding the sys tem next year.

A doctor in San Francisco has been sued for the cost of his education by his parents. They put things on a business basis when he attained manhood, mortgaged the home to keep him in school, and kept a strict account of every cent they spent on him.

Football is the most dangerous sport but it is more dangerous to drive a car to the stadium than it is to play in the game, according to a professor at Yale University.

Coeds are going "soft," it appears. The latest thing in winter nightwear for them is not ritzy satin and lace, but pajamas of outing flannel that have hoods and feet attached. Woolly snuggle puppies give the girls something to cuddle up to on cold winter nights.

Getulio Vargas Jr., son of Brazil's new nationalist dictator, is a student at Johns Hopkins university and isn't worried about the political strife in his homeland.

The December 4 issue of the Stanford daily paper marked the last issue until January 4 issue. The journalists were forced to cease their activities in order to bring up their scholastic averages.

Because Vassar girls "tried to make Princeton the butt of a joke," the Nassau Lonely Hearts Club closed its doors last week. The club went to its demise with this modest remark: "In the past few weeks American womanhood has literally prostrated itself at the gates of Princeton.

Following the procedure of the League of Nations, representatives of eight colleges recently conducted a model League meeting at the University of Wisconsin.

According to Elmer T. Thompson of the International House at the University of Pennsylvania, more than half of the foreign students attending colleges in the United States are enrolled at the University of Pennsylvania.

Three hundred blind dates and how to find them was a ticklish problem at Stanford university recently, when students from Stevens college, Missouri, were entertained with a dinner-dance. The Stevens girls were making their annual tour.

A new song, entitled "Married by the Moon," will be introduced shortly over the major networks by some of the country's outstanding orchestra leaders. It was written by a song writing team one of whose members

Freshmen Tests—

(Continued from page three) who makes nearly a perfect score. The examination is made difficult in order that these geniuses may be isolated from their fellow men.

In order to make such a difficult examination fair to those taking it, the zero point, or point from which the scores are measured is taken, not at the maximum possible score, but at the mean score. This, in popular language, is the score which the average student makes. By this method not only is the score obtained independent of the difficulty of the examination, but it also enables the exceptionally gifted student to "stretch" himself. Furthermore each institution can determine its own zero point, and by so doing, ascertain how it compares with other institutions in the relative quality of students which it admits.

One other constant besides the zero point needs to be determined and that is the unit in which the scores are to be measured. This unit is usually taken to be some constant times the standard deviation. No explanation is made at this point of standard deviation since it is not easy to explain it adequately in a few simple words. However engineering students will meet this term when they come to courses in precision of measurement, and of course it occurs continually in Mathematics Brown university and Pembroke 302, "The Mathematics of Statistics'.

At Armour these scores, which are called derived scores, are so chosen that the mean is taken at 20 and the standard deviation at 4. The net result of such a method of computing scores is that if the scores of all the students taking the examinations happen to form a normal probability campus in violation of an inter- the curves for the five examinations possible not only to compare one student with another on any examination in terms of meaningful units, the students voted in favor of re- unusual weakness either in some no! It's all right, I've already got a FER REMAINS AN ENGINEER.

(Continued on page six)

THE STEAM SHOVEL

But Jimmy "Fire Chief" Dunne claims that his shiny new Buick is a b-e-i-g-e. It's a beautiful bus all right, all right, but if we were buying a new c . . . oh well!

Student Resolutions for 1938: B. W. GAMSON — "To devote more time to my books."

J. L. MASIN-"To use my hairtonic more regularly."

cago next year and watch the near his heart. blondes."

JACK O'CONNELL-"To pick up little weight." DICK VANDEKIEFT-To give that nurse another chance."

STAN HEALY—"To be social chairman of the next senior class." CLIFF CARSTENS -- "To get Heidman in the Steam Shovel every

HAL HEIDMAN-"To get Carstens in the Steam Shovel every

week."

GEORGE PALKA-"To get Carstens and Heidman in the Steam Shovel every week." GEORGE FROST-'Not to let the wimmen bother me."

R. BUSH suggested that Prof. the boys when it comes time to make

Imagine A. ZAREM reading book like "Pascal the Prodigy"? He | hair and a flowing bow tie. must have some ideas. . . .

out the juice final.

a steady job for the next fifty-two Friday nights. Jerry is working his way through school by taking care of curve for each examination, then all his brand new, shiny, late '37 model and the death of an uncle who left was elected archon (president) of the niece. "I wisht she wouldn't frown so him \$49,999. will look exactly alike. Thus it is when I diaper her," stammers Uncle. "I don't like the job either."

Enlightened One Finds Engineers Waste Life; Quit Now, He Warns

Since the Lord made the earth in six days, engineers although paid on the six-day basis, have continued to work seven days and nearly as many nights a week. An engineer can be identified by his trusting look, the resigned expression on his face, and a BILL O'BRIEN-"To beat Chi- table of sines and consines carried

> Through the ages, the engineer has continued to function, until now our technical schools yearly turn upward to 10,000 young hopefuls on the American public, each armed with a sliderule, two handbooks and a bad case of brain fatigue due to four years of unremitting toil. Some of these souls, after working incessantly as engineers, gain success by becoming advertising managers, accountants, salesmen, managing executives. But, alas, some fail and become assistant Chief engineers, Chief Engineers, if complete failures, become Consulting Engineers.

Our Government has had two famous engineers who gained fame by Moreton be given a box of cigars for ceasing their chosen occupations and Christmas, just to sort of remember becoming Public Servants-George Washington and Herbert Hoover. An engineer with the temperament of a Grand Opera star is an inventor and can be recognized by long

There is only one engineer on record who has become rich. He re-"UNCA JEH-WEE" DANEK has cently died in Colorado and left a fortune of \$50,000, which he amassed through unceasing toil, superhuman perseverance, remarkable ingenuity

golf. Those who are good drivers become managing executives, for During the time and motion study | those whose best shots are brassies, | were members of Pi Kappa Phi. After but it also is possible to compare the class, which is a model in informal- the advertising profession offers a transferring to Illinois, both have score which a student makes on one ity, PATLOGAN was lolling with his good opportunity in case of a good been active in fraternity and campus examination with the score which he head on the sill of an open window, lie. Those who approach well find activities. At present Hampton is a makes on another. Any unusual di- and, since it was very cold outside, salvation in salesmanship, and those pledge to Mask and Bauble, the hon-In a recent poll conducted at the vergence in scores can be inter- Prof. Dutton asked him to sit else- good on the green become cashiers orary society of the Illini Theater University of Chicago, 63 per cent of preted as an unusual strength or an where. "You'll catch a cold." "Oh, or investment brokers. THE DUF-

Anonymous.

U. of Pittsburgh to Cease Special Grants

Pittsburgh, Pa. - (ACP) - The University of Pittsburgh is "putting its house in order." It has announced that it will cease giving special grants to football players.

James Hagan, director of athletics, said that future Pitt athletics "should be conducted in accord with the best traditions of intercollegiate . . . practice," and that the university has set up an agency to "secure employment for students with athletic ability on the same basis such help is given to other students. . . . "

After 1940, when present commitments expire, Pitt will reduce the schedule of its Panthers to eight games. These schedules will include none but major teams because, according to Hagan, "a football game is no longer a football game when teams as powerful as ours can run roughshod over teams of schools which under normal conditions do not attract an abundance of football material."

"If it (cessation of special grants) means weakening our teams, then they will have to be weaker and there will be no criticism of our coaches as a result of defeats that may come our way," Hagan said.

Included in the rules of the new policy is one that no coach will be permitted to initiate a contract with any athlete or attend any game with the idea of "scouting for athletes."

Tom Watts Elected Pi Kapp Archon of U. of I. Chapter

Tom Watts, formerly a member of the Armour chapter of Pi Kappa Phi, Upsilon chapter of the fraternity at Engineering is a good deal like the University of Illinois last month.

Watts and Orville Hampton started at Armour with the class of '38 and Guild. Watts has also worked with the players group and writes a column in the Daily Illini.



TAMOUS golfers like Gene Sarazen, Helen Hicks, Lawson L' Little, and Ralph Guldahl prefer Camels. They have found that costlier tobaccos do place Camels in a class apart. Listen to Ralph Guldahl, National Open Champion: "I've stuck to Camels for 10 years," he says. "I smoke lots of Camels and they never jangle my nerves."

And millions of Americans prefer Camels day after day making them the LARGEST-SELLING cigarette in Amorica.



(Above) SCHOLAR-SHIP MAN James Dean, '38. "The toughest part of studying is sticking to it hour after hour," he says. "I've learned that smoking Camels helps ease the nervous tension of study."

Camel spends WILLIONS

more for

COSTLIER TOBACCOS!

Camels are a matchless

blend of finer-WORE

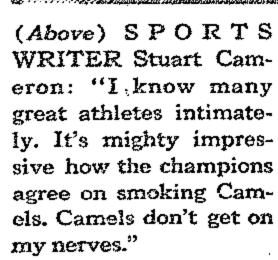
EXPENSIVE TOBACCOS

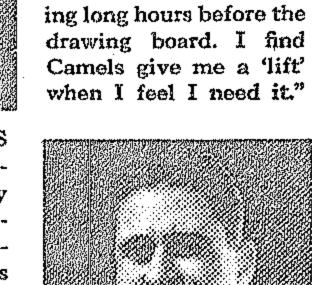
-Turkish and Domestic

(Below) SALESGIRL Elsie Schumacher works in a department store. She says: "When the rush gets me worn outit's me for a Camel, and I get a quick 'lift.' Practically all of us girls in the store prefer Camels."



(Above) SPORTS





(Below) DRAFTSMAN

B. T. Miller: "I smoke

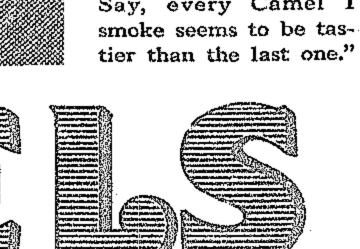
steadily - yet Camels

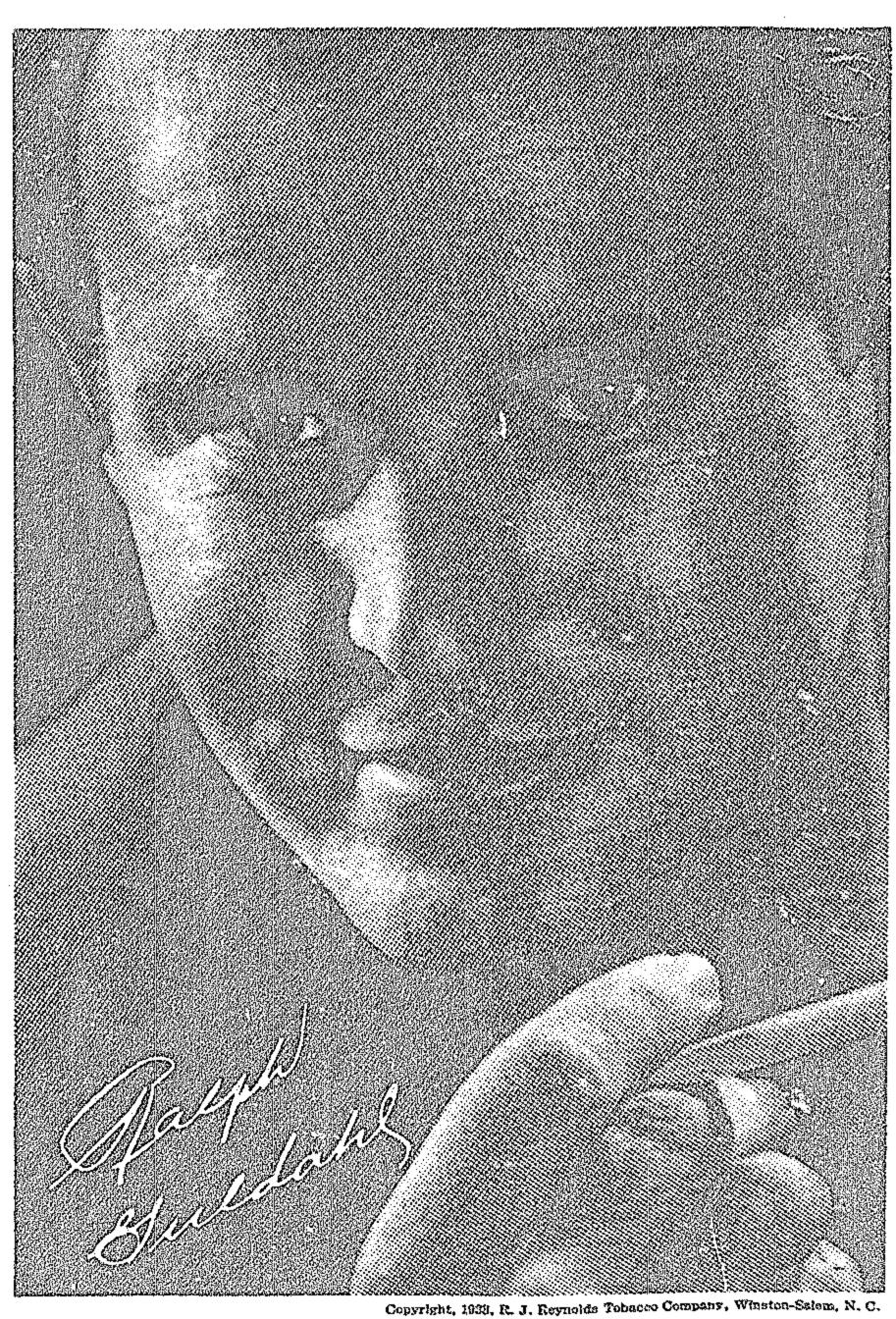
never tire my taste. I

often feel used up dur-



WATCHMAKER I. C. Gorkun says: "Camels? Say, every Camel I





ARE THE LARGEST-SELLING CIGARETTE IN AMERICA

Foresters Rally for Second Win Over Tech, 45-38

Armour Fails to Hold Momentary Lead in Final Half

TECH RALLIES TO LEAD

LAKE FOREST (45) 2 3 Patterson, f. 4 R. Maiman, f. 0 2 Stickels, f. 3 Petersen, c. 1 0 Peterson, g. 6 9 Morstadt, g. 0 0

A Lake Forest rally in the last minutes of the game gave the north shore men their season's second win over the Techawks 45-38 in the 108th Engineer's Armory last Tuesday.

ice by easily sinking three field goals | during the half.

to clinch victory. consistently missed them on bad rallied to pull up within two points out. Although they were ahead in take of last year. breaks, while failure to get under the basket and follow up the rebounds cost the Techmen a number of points. Of Armour's 17 points in the first half, nine were made on free throws.

Lake Forest Starts Scoring

Stikles and R. Maiman started the scoring on a pretty hook shot and a long try from the side lines. O'Connell dropped his two free shots, but Patterson and Maiman came back with baskets on a pair of fast pivot

Lake Forest's accuracy in Stickles and Patterson made follow-up almost unnecessary. Armour's first score from the floor came in O'Brien's hook shot from the free throw line, after which Scherer made two free shots.

Armour's passing offense was aerial and the Lake Forest forwards had little trouble intercepting passes and snaring would be set up shots. O'Connell, the team's only breaker, dribbled through five men and made two points. Brown, handicapped with a knee injury all season made his first start, and played a good game at center. Tech made four points on gratis shots by Brown and Norkus and another break basket by O'Connell. The co-captains collaborated on another basket while Lurz made a free throw, but Patterson and Maimen added four more points to their team's tally, to lead 30-17 at the half.

Armour Ties Score

Lake Forest started the closing period with its second team, Armour promptly scoring 16 points to 3 for the North shore men, to tie the score at 33 all. Norkus, Swanson and O'Brien lead the spirited comeback with two field goals each, while O'Connell and Brown accounted for four free tallies.

At 33 all, Lake Forest made a free throw, but Scherer's underhand basket brought the score to 35-34, which another Lake Forest free throw tied. Swanson's basket on a pass and a dribble gave Armour the lead for the first time, and the small shivering audience really yelled at 37-35. O'Brien was forced out on personals at this point. When the Armour defense slackened, five field goals followed from the opposition to give Lake Forest an undisputed victory.

Swimmers Lose to Wright Jr. in Opener

Overwhelmed by a conditioned team, the Tech swimmers lost to Wright Junior College Dec. 15 by a score of 57-18, in an early meet for the tank season.

Despite their lack of practice, the Tech mermen gave a battle for nearly every place. The Wright Junior College swimmers finished one-two in all but two events, while Armour made up for what it lost in points by its spirit. In the 220 free style, Hovicek of Wright barely splashed out Captain Dodge, while in the 100 free, almost a photo finish took place with Carlson of Wright first, and Jaskulski of Wright a half stroke ahead of Winblad of Armour for second place.

Phi Kaps End Phi Pi's Nineteen Year Reign As Basketball Kings

Held by Phi Pi Phi for nineteen years, the lease on the Armour interfraternity basketball title was sud denly broken last Thursday afternoon by Phi Kappa Sigma. The enthused Phi Kap five rallied from a 5-14 half time setback and won in the final minutes of play, 21-17.

The first game played between the two teams this year was protested by the Phi Kaps because of a dispute over the number of fouls on a Phi Pi The protest was allowed and the game

In the first game the Phi Kaps led 9-5 at the half, and the Phi Pi's rallied to overtake them by one point in the last minute. From the thick of a scrappy battle, the title team Seniors Out Io emerged victorious 15-14. The protest that there was no official scorer brought about the replay.

The Phi Pi's started out strongly Thursday, mainly through the shoot-Lagging by 13 points at half time, | ing of Dunbar and Plowman, and | the Armour five rallied, rapidly held a lead of 14-5 at the half over wiped out the margin and took the the Phi Kaps who were unable to lead at 37-35 late in the second period. drop the ball through the hoop with However, McAllister, unguarded any consistency. Although the game Wednesday afternoon. The events Lake Forest center, put the game on was rough there were only two fouls will begin at about four o'clock in the them with more reserve in the second,

The Phi Kaps started out with a Armour's first period offense rush in the second half and contin-class, led by captain Dunbar and of the senior champs next Wednes-

of their opponents. The game was finally tied up, 17-17, on Whitehead's free throws with only a few minutes remaining in the game. Charleton clinched the victory for the Phi Kaps by dropping in a tip shot. Just before the final whistle sounded Whitehead added another long shot, giving the Phi Kaps a four point margin of victory. The second half was a rough affair with six personals called, three for each team.

The day of the previous battle between these two teams found the Rho Delts coming indisputably into the finals, winning with a 14-9 score over Triangle. They led 9-4 at the half and kept a safe margin throughout the second period. The final game is scheduled for today or Thursday afternoon.

Take Fourth Win In Track Meet

Senior trackmen will be out to defend their three year title in the interclass meet scheduled for next University of Chicago fieldhouse.

Eleven New Champions Crowned Techawks Invade DeKalb Thursday

DeKalb will be hosts to the Techawk five Thursday afternoon in a ager Bill Chelgren, Coach Weissman, against Yeager and Monson against return game after the opener played | and several members of the boxing | Reh. De Boo won his match by pinhere last year. The DeKalb teach- and wrestling teams, the annual tour- ning Yeager, and Monson won on a by Tech 29-25.

ly needed win, and expect to repeat last year's victory although play will seniors tops on the mat. be on their opponent's court. It will be the eighth game of the season, the fourth away from the home floor.

Wrestlers Host to Lawrence The Techawk matburners will be host to the Lawrence college squad next Saturday afternoon at the U of C. Patten gym. The meet was scheduled by manager Basile along with a return trip into the paper-mill country of Appleton, Wisconsin.

Lawrence, from this area, is reputed to have a powerful squad. The return meet is scheduled for February 12, when the Tech wrestlers are invited to attend a dance and spend the night there.

first places, the seniors outscored

third, and fourth places.

In Boxing and Wrestling Tourney Under the skillful direction of Man- | The 135 pound class brought De Boo

The squad will be out for that sad- | tourney, and the summaries found the | remarks from the spectators. juniors far out in front as boxers, the

> in the heavyweight section. In box- the second round against Colant. ing Koester took the 118 pound weight class.

The tournament brought several new men under the watchful eye of cision. Coach Weissman, and provided him with an opportunity to test several of this year's new recruits.

To start the 125 pound wrestling division Till won his first bout by a forfeit, and Roche pinned Grindal. advantage of which he made good use. For three years the present senior | The juniors will be the chief fear | The final bout in this division brought | Till, a freshman Co-op, against pound boxing division from Gardes. lacked the organization and pep ued until the final whistle. With ex-captain Faust, has taken the day afternoon. The former are hop-Roche, a senior mech. In this match McMahon defeated Zollner by a forshowed by the visitors. The Tec- Whitehead and Charleton hitting the honors in this affair. Last year the ing to back up their strength with Till's experience showed to advantage hawks tried a number of shots and hoop from all angles, the Phi Kaps present junior class was barely nosed reserves in order to avoid their mis- and enabled him to pin Roche in just The next bout brought Clark against under five minutes.

ers invaded the Armory December 3 | nament of black eyes and cauliflower | forfeit. In the final tilt De Boo pinlast season, but were turned back ears came to a successful conclusion. ned Monson after six minutes of The affair was run as an interclass | "rassling" assisted by many timely

In boxing Koester walked to victory in the 118 pound class, winning both The new champions are as follows: | bouts by forfeit. The 135 pound sec-Wrestling-Till in the 125 pound | tion brought Capodanno, Collins, and class, De Boo in the 135, Baum in the Colant together. Capodanno won the 145. Kubik in the 155 division, Kaz- first bout from Collins, and in the microwicz in the 165, and Balsewick final punched out a technical K.O. in

The heavyweight division in boxing class, Capodanno took the 135 di- brought Gryglas, a junior chemical, vision, Lindeman in the 147 weight, against Grigas, a sophomore chemical. Clark won the 160 pound class, Roth- Gryglas, in an almost evenly fought enberg captured the 175 pound sec- match, got the decision and went on tion, and Palonis took the heavy- to meet Palonis for the title. In this bout Palonis tapped a few more points than Gryglas and won the de-

> Rothenberg, a junior chemical, captured the 175 pound championship by defeating Cannon and then Rehwald. In the title bout against Rehwald, Rothenberg's long reach gave him an

> Clark took the first bout in the 160 feit when the latter sprained a thumb. (Continued on page six)



Norkus, Scherer, Soph Sensations, Forwards With Promising Futures

By E. Worcester

Lloyd Norkus may not have an athletic past, but he certainly has a pres- forward, is a serious chap and a ent and future as one of Armour's serious ball player. A graduate of best basketball players. At present a Naperville high school and an archiregular on the Techawks, Lloyd's only | tect student in the Institute, Bill has pre-college athletic accomplishments had four full years of varied athinclude a regular berth on his seventh | letic experience, for which he was grade quintet and a two-week experi- awarded an even dozen monograms. ence with the Hirsch High School basketball team.

Played With Frosh

However, at Armour it's a different story. Norkus was a member of the freshman squad under "Pop" Warner, where he earned his numerals and developed into varsity material. He played second baseman on the frosh and soph baseball teams, and although not a Billy Herman he played good ball. The sophomore chemicals let him play on their 'ouchball team, and it's rumored he'll ce captain next season.

Working in the afternoons kept Lloyd from going out for the team at Tilden in his last two years there. At present Norkus is working his way through Armour playing nursemaid to a family of apartment house radiators, knowledge of which has helped him considerably in his physics and mechanics. His class elected him (without personal campaigning) as treasurer for its first two years.

A Good Forward Norkus makes an excellent leader, and his six feet one inch and 180 pounds of spirit and skill have convinced Coach Stenger that he needn't worry about a good forward for the next two seasons—unless Lloyd falls in love. To date he hasn't. He usually manages to tell them he's married and consequently they don't insist. But if Lloyd ever takes a young lady as seriously as he does his basketball—well, here's hoping he sticks to the latter; the Techawk five needs good forwards.

Tech Wrestlers Drop Opener to Wheaton by 24-6

Wheaton's wrestlers clearly showed why they are the little nineteen champs by spoiling Armour's home opener, 24-6. Wheaton proved to be just a little too much for the Armourites, although the bouts were much more interesting than the score would indicate.

Every match was a hard fight throughout. Three of the bouts were won by Wheaton on falls, the reby the referee.

Wheaton Takes Opener

fought well and broke several good the title. Wheaton came back strong again in the second bout. After a hard struggle Schoon, 126, pinned McDaniel in 6:52.

mour to break into the scoring collonds. umn by winning on points from Hess. In the 145 pound division, Hanna made a good showing with Pitt, team captain, little nineteen champion and runner up in the State A.A.U. Hanna extended his opponent to the limit with Pitt finally getting the nod from the referee.

Frame Pins Nigrelli

Nigrelli and Frame tussled in the 155 class, but Frame proved to be a little too much. Nigrelli valiantly tried to ward off defeat by breaking several potential pin holds, but finally succumbed in 5:10. Maxant found some tough competition in Berghouse at 165. The match was evenly fought throughout, but Berghouse added another three points to Wheaton's total by winning on points.

Tullgren started his bout with Taylor with a rush. The two grapplers fell off the mat and Taylor was knocked out but quickly recovered. Tullgren then went on to win or. points, holding the advantage over his opponent all the way.

Hanson Wins Final

The match ended with an evenly matched bout between McIntyre and experience proved the deciding factor. Hanson, heavies, but Hanson got Wheaton's final three points by detwo decisions for six points.

Bill Scherer, sophomore Techawk

Played at Naperville

As a freshman at Naperville he played with the lightweight basketball team and was a member of both the track and football squads. He remained on all three for the next three years. His basketball experience includes a year on the lightweight squad and three seasons with break his nose. the varsity. This, and natural ability, largely accounts for his accuracy and confidence on the Armory floor. Experience has made Scherer a balanced player in spite of the state or score of the game. His speed and elusiveness make him an excellent forward and difficult man to guard.

Captained High School Team

Bill's four years of play on his prep school eleven is at times re flected in his basketball. By no means a sloppy or rough player, Bil does play a hard and aggressive game. Weighing 170 pounds and six feet tall Bill has a swell athletic build. As a junior he was elected cocaptain of the varsity quintet in recognition of two years play and leadership ability.

Between basketball games Scherer managed to high jump, run hurdles, put the shot, toss the discus and throw the bull on the Naperville track squad. He took a first place in the shot put at the Little Seven All-Conference track meet, and was herthed on the second teams of both football and basketball for the same inter-prep school organization.

Twelve Letter-Man Bill

Bill admits he isn't consistently hot on the gym floor, but he's plenty consistent with reference to a certain little Jane (by name), who goes to the National College of Education which isn't too distant for week-end jaunts we hear.

Bill's laurels to date include four letters each in basketball, football, and track, but his crowning accomplishment will be his Delt pin on a would-be teacher's dress front.

Wrestling—

(Continued from page five) Nichols and featured some of the wildest swinging of the tournament. mainder of the bouts being decided Stober, the ref., had all he could do to keep clear of flailing fists. The judges decided that the match was a It was Adelson against Sheroma, draw. With the bout postponed, in the 118 pound division. Sheroma | Clark went ahead to defeat McMahon got off to a good start and had the and bring himself against Nichols in advantage over Adelson all the way, the final. In the last bout of the 160 pinning his man in 3:39. Adelson pound class Clark triumphed to take

Baum showed to advantage among the 145 pound wrestlers when he pinned first Brandenberg and then Wagner for the title. His bout against Captain Dunne, 135, enabled Ar- Wagner took 3 minutes and 40 sec-

Finnegan Wins on Pin

Some of the nicest wrestling of the tournament was exhibited in the 155 pound class which opened when Finnegan pinned Engelthaler in just over two minutes. Kubik took his first bout from Lasker by default, and then pinned Anthon. Finnegan had little trouble in winning over Olson but it was by advantage rather than a pin. The title bout was the outstanding wrestling match of the tourney with Kubik defeating Finnegan for the

Wrestling in the 165 pound class saw Carlson pin Schlax in the opener. Jensen pinned Rehwald after about four minutes of tugging. Kazmierowicz used his superior experience to defeat first Moculeski and then Carlson. The title bout brought Kazmierowicz against Jensen. After six minutes Kazmierowicz was on top and Jensen's shoulders rested against the

Balsewick Wins Heavyweight

The heavyweight wrestling title went to Balsewick whose weight and

The final scores found the seniors winning the wrestling division with cision in the nine-minute bout. The 16 points, followed by the frosh with final tabulation found Wheaton with 15 and the sophs with 15. The three falls and three decisions for a juniors outboxed the other classes total of 24 points, and Armour with with a large 21 points, the frosh again second in order, but with only 91/2.

Armour Loses to Beloit 32 to 25

from the eager reader's hands may have resulted in a lapse of memory as to the goings on of the Tech five the week previous to the Christmas holidays. Just four weeks ago tomorrow Armour met Beloit at the 108th Engineers Armory, and while playing perhaps one of its best games up to that date, lost 32 to 25.

erans scoring beat Armour last year, with eight points, and Scherer with seven, led Armour's attack. It was this game in which Henriksen re-

long pass from O'Connell a few sec- basket closed a slow first period 21-14. to show what they can do in their examinations. onds after the tipoff. Two successive free throws by Beloit tied the kets to open the second half, but a score. Another free throw again put | trio of field goals by the Midway five | Armour in the lead, a position that brought them ahead 28-17. Armour, inations success or failure in such ing cooperative students. Many other the Techawks failed to regain for the playing with more pep than in the subjects as mathematics and chem-projects loom up in the future. Some duration of the game after a tip-in first period, started to worry the U. by Tamulis following a missed free of C. quintet, slowly gaining on them, throw by one of his team mates. It 32-24. was nip and tuck up to the middle pull away, at one time having a margin of 10 points.

Speedy Chicago Five Stops Armour 45-32

Renewing an eight year south side The long absence of the News rivalry, Armour fell before the superior playing of Chicago University 45 to 32 on the Midway, Saturday evening, Dec. 18. Chicago's height and experience helped her to take a lead of 21-14 at half time which she easily held throughout the game.

Playing cautiously both teams tried to break through tight defenses, but passes were blocked and no scoring resulted in the first several minutes Fleming and Tamulis, Beloit vet- of play. Finally Lounsbury took a long hook shot which was good, Rosagain paced the visitors. Swanson sin following with a fast set up shot.

Mullins, a fast breaker, was easily fouled, but like his teammates, failed | data. Such work of course is largely to connect many of his free throws. basic and preparatory, and the received a sock of sufficient force to On baskets by O'Connell, Scherer and sults are not immediately apparent. O'Brien, Tech drew up to within two | Some of it for final results must | a great deal. Further investigations Armour started the scoring when | points of Chicago at 16-14. Paine's | wait until students who took the ex-Scherer stepped in with one on a long shot and Meyer's underhand aminations have had an opportunity

Meyer and O'Connell traded bas-

of the second half, Beloit never lead- | tempts at scoring breaks, the Tech- | tember the grades that he will make | cation. What interesting results can ing by more than two to three points. hawks lost the ball several times, the next February, but it is hoped be secured will depend entirely on At this time Beloit began to steadily leaving an unguarded floor behind that two things can be done. The the size and the training of the staff them. Chicago capitalized with three first is to guide individuals so that who correct those September exambaskets.

Freshmen Tests—

(Continued from page four) mental attribute or in educational training. An unusual strength may indicate hidden powers of which the student is unaware. An unusual weakness may indicate a region in which that weakness can be remedied. An illustration of a handicap under which many students unconsciously labor is a slow reading rate. If happiest in some other occupation. such an individual discovers this in reading rate, he can read twice as much in the same amount of time.

After the scoring is finished and the computed results transferred to the alphabetical list, the assistants turn to the task of analyzing the studies. Some of the projects on they will make the most of the tal- inations.

ents with which they are endowed. The second is to help students who cannot possibly become engineers find that niche in life for which their Creator intended them. In this way, not only will a prospective student save money, and what is more valuable, time, but the Institute itself will gain. It will not try to perform the impossible, and it will make friends out of individuals who are

Last February an attempt was time, and is able, say to double his made to derive an equation which would predict the February grades in Mathematics 101 on the basis of the scores made in one of the September examinations. The equation which was derived predicted the grades accurately in 32 percent of the cases. Since the probability of predicting a grade by pure chance is 20 per cent, this was some improvement but not are now in progress to improve the predictive values of the September

Other projects now under way are which work began last year were at- the rating of preparatory schools and tempts to predict from these exam- experiments in the method of selectistry. This work will be extended of them are purely utilitarian, others to other subjects as other data be- are theoretical and are concerned come available. It is not expected with mathematical methods which In the closing minutes, on wild at- that a student will be handed in Sep- now are coming into the field of edu-

