

Armour Tech News

Vol. XX. No. 14.

Armour Institute of Technology, Chicago, Illinois

Tuesday, January 18, 1938

Evening Student Union Organized

Oakhill Sponsors Group; Aim to Promote Social and Professional Bonds

Forming the nucleus of what is perhaps to become Armour's largest student association, a small group of evening school students, under the guidance of Mr. Fredric Oakhill, night school instructor, met in D Mission last Friday night to discuss plans for their organization.

Mr. Oakhill and six evening school students, W. E. Koch, H. Savage, R. J. Wnukowski, C. Bielko, A. Rulis, and L. Paitelson have worked throughout the present semester discussing and planning for this student association.

Begin Next Semester

Not until next semester will the student group actually get under way. However, two more meetings will be held in the next two weeks to complete their plans.

A committee of five including E. C. Mitchell and I. M. Footlik, who also attend day school, were elected to represent the group meeting last Friday. Similar committees will be selected at the two subsequent meetings.

A questionnaire was released approximately two months ago to determine the student's reactions to such a student body. Out of about 1900 such questionnaires, 1200 students indicated that they would take an active interest in such an undertaking.

Try for Greater Cooperation

Briefly the aims of the association are these: 1) to effect a working cooperation among the evening students; 2) to effect an avenue for enjoyment of social relations not possible in classroom association; 3) to sponsor meetings to which well known speakers will be invited to talk on subjects of mutual interest; and 4) to effect a means whereby men of the evening school may meet to form small groups interested in specific subjects.

When the student association is finally completed, permanent officers will be elected. Probably each class will have a class chairman. Plans for a night school news bulletin were tentatively suggested. The topic of fees was tabled until a later meeting.

Dean Heald Attends Meeting of Illinois College Presidents

Dean Henry T. Heald, in his capacity of acting-president of Armour, attended a meeting of the presidents of practically all colleges and universities in the state at the University of Illinois last Friday. The convention discussion revolved around the central theme of possible cooperation in holding a major conference on the problems of higher education in Illinois.

President A. C. Willard of Illinois brought out the fact that although increased enrollments are demanding more funds, there is less endowment for private institutions.

He touched on another current problem of colleges when he said, "Some of the smaller colleges, as well as some of the larger institutions, are finding it difficult to adjust their programs to the secondary schools and to the social, cultural, and industrial temper of the day."

Talk on Sprinklered Risks Heard by Fire Protects

"Sprinklered Risk Underwriting" was the topic discussed by Mr. R. K. Hill of the Springfield Fire and Marine Insurance Company at the F. P. E. S. meeting last Friday. Mr. Hill spoke of the necessity for fire protection engineers to understand the principles underlying the amount of insurance which can safely be carried on a risk.

Emphasis was placed on the need for care in detail in carrying a line of sprinkler leakage insurance. One case was cited where a crack in a piping elbow caused very serious damage to the building contents. The lecture was concluded with a discussion of several risks having fire protection, with consideration of factors causing reduction of the "line," such as low water pressure, predominance of hazardous occupancies, lack of watchman, and insufficient volume of water.

Strawbridge and McNulty Elected to Trustee Board

Two new trustees were elected at a meeting of the Board of Trustees last Monday.

Charles H. Strawbridge, president of the Goodman Manufacturing Company, was one of those elected. The Goodman company makes electric mining machinery.

The other new member is Bernard L. McNulty, president of the Marblehead Lime Company since 1922. He is a director of the National Lime Association, and president of the Colloidal Lime Plaster Corporation.

'Cycle' Editor to Hold Photography Contests

To stimulate student activity toward producing another *Cycle* profusely illustrated with pictures of student activities, the staff of this publication is conducting a contest. The *Cycle* will pay twenty cents for each picture selected for use, and a prize of five dollars will be paid to the person submitting the best picture.

A faculty committee will select the prize picture. The rules set by the staff for the contest are as follows: pictures should be submitted in an envelope with the owner's name on the outside; glossy finish pictures must have no identifying marks or names on the back; pictures should be placed in the *Cycle* box in the bookstore; pictures used in the *Cycle* will not be returned; all pictures must be turned in by February 15, and should be approximately 4 inches by 3 inches.

Industries of Chicago Send Representatives to Conference Course

Plans Evening Conferences to Teach Personnel Administration

The first of a series of twelve weekly conferences on "Executive Control of Personnel" sponsored by Armour Institute of Technology for operating executives of industry in the Chicago area convened last night in the Palmer House, Chicago, with Dr. H. L. McCarthy, Director of Region Six of the Social Security Board as guest speaker.

Deals with Industrial Relations

"The series," said Professor H. P. Dutton, director of the conferences, "as a whole will deal with the problems of industrial relations resulting from rapid changes in the general economic and social outlook. Designed especially to meet the needs of operating executives, the emphasis will be on an exchange of practical experiences and a stimulus to fresh thinking in this changing field. The 1938 conference course will follow the general pattern of the successful 1937 course which had as its subject, "Plant Engineering and Maintenance."

Doctor McCarthy, as guest speaker of the first meeting of the conference course discussed "Industrial Relations Today." His experience as consultant in industrial relations particularly qualified him to discuss the subject from an informal and practical viewpoint.

Twenty-three Industries Enlist

Professor H. P. Dutton also announced that twenty-three industries in the Chicago area are sending representatives to the conferences. These are:

Acme Steel Company, American Steel Foundries, Inc., Chain Belt Company, Chicago Flexible Shaft Company, Chicago Park District, Corn Products Company, Bell & Howell, Economy Fuse & Mfg. Company, Electric Household Utilities, Inc., Inland Steel Company, Jewel Tea Company, Link Belt Company, Lumberman's Mutual Casualty Company, Pullman Standard Car Company, Republic Flow Meters, Inc., Revere Copper & Brass, Inc., Sears, Roebuck & Company, Swift & Company, United Autographic Register Company, Western Electric Company, Wishnick-Tumpeier, Inc., The Buda Company, Spiegel, Inc.

New Graduate Courses to be Given in Evening Division

Several new graduate courses of special value are to be offered in the evening division beginning February 7. Among these will be the course in applied plastics, which is offered in the mechanical engineering department with Mr. J. Delmonte as instructor. The applications discussed, however, will be of interest to chemical and electrical engineers as well. Dr. Max Jakob, world authority on heat transfer, will be instructor in "Fundamentals of Heat Transmission," a new course dealing with the application of the laws of heat transmission to chemical, civil, and mechanical engineering problems.

Congressional Medal to be Presented Dr. Thomas Poulter Tomorrow Evening



Dr. Thomas C. Poulter

Red Lacquer Room of Palmer House Site of Dinner

A long record of scientific achievements will be climaxed tomorrow night when Dr. Thomas C. Poulter, director of Armour Tech's Research Foundation, will be presented with the Congressional medal "for scientific accomplishment unequaled in polar research."

Dr. Poulter was the Senior Scientist and Second-in-Command on Rear Admiral Richard E. Byrd's second antarctic expedition from 1933-1935. In July and August, 1934, Dr. Poulter, and two others started from the expedition's Little America base, and after much difficulty finally rescued Admiral Byrd who had been overcome by gas poisoning in a lonely observation station many miles away. For this accomplishment, and because of his courage, daring, and scientific achievements, the medal is to be awarded.

Many Prominent Men to Speak

The Red Lacquer Room of the Palmer House will be the scene of the formal dinner, and many prominent people will be present. Speakers will be: Rear Admiral Hayne Ellis, commandant of the ninth naval district, with headquarters at the Great Lakes training station; Brig. Gen. Phillip B. Peyton, commanding general at Fort Sheridan; and Hon. Charles G. Dawes, former vice-president of the United States, who will present the medal.

Other prominent men at the speaker's table will be Major C. L. Fordney of the U. S. Marine Corps, noted for his record-breaking stratosphere flight several years ago; James D. Cunningham, chairman of the Board of Trustees of Armour Institute, and Dean H. T. Heald, acting president of Armour Institute.

Admiral Byrd III

Admiral Byrd, who had expected to be present, is ill and will be unable to attend. He is, however, sending a message of great regret for his absence, and also a message describing in considerable detail Dr. Poulter's remarkable record in the Antarctic, both letters to be read at the banquet.

The latest reports indicate that a large attendance will be at the dinner to witness the presentation.

Dr. Poulter has been the Director of the Research Foundation of Armour Institute of Technology since September, 1936. He is a graduate of Iowa Wesleyan College, a Doctor of Science (earned at Iowa Wesleyan), and a Doctor of Philosophy (University of Chicago).

Under Dr. Poulter's direction, the research laboratory has compiled data and made investigations pertaining to Diesel Equipment, its fields and lubricants; refrigeration; insulation; the field of extreme pressures; and measurements of molecules.

Glee Club to Offer WGN Radio Concert

Members of the Armour Glee Club will be heard over station WGN at 5:00 p.m. this Friday, January 21 in their first outside concert of the year. Mr. O. Gordon Erickson, director, has also announced that on January 31 the Austin Women's Club will be host to both the orchestra and glee club at the Masonic Hall in Austin. The clubs have been rehearsing several new numbers as well as a few of their older pieces for this concert. After the concert, the members will be entertained.

The sale of tickets for the Goodman Theatre concert, which will be held February 24th, will begin on Wednesday, January 19, at 2:00 p.m. in the lobby of the main building. Members of the musical clubs who want reservations are advised to make them at once.

Final Examinations to Begin Next Monday, January 24

Final examinations of the first semester will begin on Monday, January 24, and conclude on Friday, January 28.

The examination period has been extended this year and begins on Monday instead of Saturday as in the past. In the schedule appearing on page three will be noted several examinations that were formerly given before the final examination periods in regular classroom periods.

Voting Deadlocked on Freshman Week

Fraternities Defer Action Till Later

Because of the deadlock of three fraternities voting against and five voting in favor of the proposed early rush week, action on the measure will have to be deferred until the Interfraternity Council meets again next semester. All that is needed to make a Freshman Week legal is the switching of one of the opposition fraternities to the other side.

The Interfraternity Council has been considering a change in the traditional rush week. The proposed new rush week would take place before school starts and probably be known as Freshman Week. Although the change has not been accepted by vote of the council members, prospects for acceptance are good.

The new Freshman Week would not consist of only rushing activities. The freshman psychological examinations would take place during this time as well as registration and orientation. The new men would not be encumbered with homework and could relax completely. This would be the big advantage of this arrangement over the traditional rush week after school starts. The majority of colleges have their rush weeks before school starts and have been apparently successful with this arrangement.

There is one disadvantage to the proposed rush week. This is that the fraternity men will have to get back a week ahead of schedule. It is this fact that has brought up a third possible alternative. This is that the rush week could be held during the week-end after school starts and the first part of the second school week.

New Cooperative Group to Start Here January 31

Over a hundred new cooperative students will begin their studies at Armour on January 31. A great number of the group are men living outside the Chicago area, indicating a more widespread interest in the Armour cooperative course.

Many large manufacturers outside Chicago including the Barber Greene Co. of Aurora, the Mueller Co. of Decatur, French and Hecht of Davenport, Iowa, and the Bettendorf Co. of Bettendorf, Iowa, are sending cooperative students to Chicago. The Caterpillar Tractor Co. of Peoria is sending a group of six students to enter the cooperative class in mechanical engineering. A number of electrical manufacturers have also become interested, such as the Jefferson Electric Co., and the Commonwealth Edison Co.

Term Length Increased

This group of incoming cooperative students will begin classes a week earlier than the returning students whose classes begin February 7. This extra week allows nine weeks of study instead of the usual eight which will be the time schedule in the future.

Most of the students have been selected by the companies and have been examined at Armour to determine their mental abilities to complete the course of studies without undue failures. This group is the third to begin studies with the cooperation of regional manufacturers.

Cooperatives Are Carefully Selected

With the added experience of the other groups a more comprehensive and accurate system of selection has been developed. A few companies such as the Western Electric Co. and the Union Special Machine Co. chose their candidates by means of examinations given to employees in their plant. These students as well as the others were given personal interviews with Coordinator L. Lease in addition to the mental examinations.

A great many of the companies participating in the program took interest in the project by merely hearing of it. Other companies have become interested by students desirous of taking part in the cooperative course. All the work connected with this branch of Armour's scholastic activities is carried on under the direction of Professor L. J. Lease.

Flash! Tech News Banquet Will Not Be Held at Chez Paree or Blondie's

By R. E. Perry

The ARMOUR TECH NEWS, in an annual philanthropic gesture, will hold its annual banquet for the members of the staff on February 8 in some luxurious hostelry that has not as yet been selected. The prospect for the aforementioned banquet hall is one William J. Chelgren, who has several choice locations in mind, chief among which are not Chez Paree or Blondie's. (On account of Blondie's was closed, but of course two thirds of all Armourites know of this deplorable affair.)

This banquet is always a perennial source of surprise to the members of the staff, as the number of guys that show up at the table, pounding on their plates, and drooling expectantly, generally exceeds the number of souls it would take to man the CHICAGO DAILY NEWS. Not that the ARMOUR TECH NEWS regards itself as anything but an able contemporary of the CHICAGO DAILY NEWS, it's just that they get more advertising, which means practically nothing.

But Look Who We Got—

It's quality that counts. They have Hugh Johnson commenting on current affairs,—we have Zarem and Schrieber. They have H. I. Phillips being funny nightly,—we have Zazu and E. J. being the same weekly. They have Lloyd Lewis, and we have

Coye on sports. The only things they have that the ARMOUR TECH NEWS is unable to match are things to write about.

It is to be noted, however, that there are several splendid news prospects wandering around school. Someday our sister paper and we will both run stories on the chief of the prospects who is being carefully nursed along:—Joseph Grigas. The caption will no doubt read: "Student And Companion Arrested In Low Brawl."

Great Newshawks

Patlogan is also a lad that the ace news hawks of both sheets are keeping an eagle eye on. (Which last phrase is what is known as a mixed metaphor). His caption will be: "Pharmacist Slays Six With Self Synthesized Elixir." Norkus is already well known across the continent as Flash, the fellow who every once in a while plays in a game for three minutes—only sometimes he plays for the whole game—and is he ever good you.

Therefore it behooves the student body to demonstrate the old Armour spirit. Make the headlines today! But before Slaying Three in Love Nest, or Ending All In Death Leap, let the ARMOUR TECH NEWS know so that it may scoop the city and blow the town wide open.

Congratulations, Dr. Poulter

To receive a congressional medal is a coveted honor awarded only for an outstanding action. You and your two companions who rescued Admiral Byrd at Little America in 1934 did heroic work. Congress has recognized your daring and scientific achievements. The student body, through their paper, congratulates you.

Non-Departmental Courses Versus Interest

Non-departmental courses are those courses which do not apply directly to a particular branch of engineering with which a man is identified. When so-called non-departmental courses become such that the time they require is more than that which is available for departmental courses, a change is needed.

Courses such as practical psychology and modern retopias in which the work is determined by the interest of the student who voluntarily takes the course are not to be included with those non-departmental courses required to receive a degree. The fault of the required non-departmental courses is not to be found in the general subject matter, which is interesting sometimes, and has been presumably found or believed to be needed by engineers with a B.S. degree.

When a subject requires more time than is allowed for it in the bulletin, there must be a misunderstanding between the administrating and teaching staffs.

There is time before the next semester for the heads of departments and the teachers to have a conference and to determine how well they are keeping to their time limits and revising their

subject presentation to include the more important points and to avoid infringement on other courses.

Left - Right - Halt - Count Off by Twos

Although the physical education program has been developed in the past two years to something more than banging against the gymnasium walls on the fifth floor of Main, it still does not reach the quality met in other schools.

Gym classes are provided for exercise, which is bodily exertion for the sake of keeping the organs and functions of the body in a healthy state. Educators believe an active mind needs a healthy body.

Gymnastics or bodily exercises are divided into light gymnastics, or calisthenics which develop the strength and control of the body, and heavy gymnastics, such as work on the horizontal bar, parallel bars, and vaulting horse. Gymnastics contrast with sports which are strictly competitive.

Hindrances to proper STUDY of gymnastics and sports here is, of course, hindered by time, equipment, and facilities. However, these handicaps can be overcome.

Probably ninety per cent of the men taking gymnasium are not members of athletic teams (and of course not of the musical clubs). It is important to teach the value and joy of sports to the men taking gym. In addition to playing volleyball and basketball, and running around, they should also learn something about the principles of sports which enthrall their fellow Americans. This latter knowledge is something that may prove valuable after graduation.

Time in scheduled gymnasium periods should be spent in the teaching of the principles of such sports as boxing, wrestling, golf, hockey, fencing, squash, tennis, baseball, polo, football, swimming and track. Some of these sports can be described, but the greater number can be seen and performed on the campus, or off the campus with facilities available to the school.

One step has been made with the installation of a golf practice net in the gymnasium. Let's continue forward and have a gym period which will attract even the members of the athletic teams and the musical clubs.

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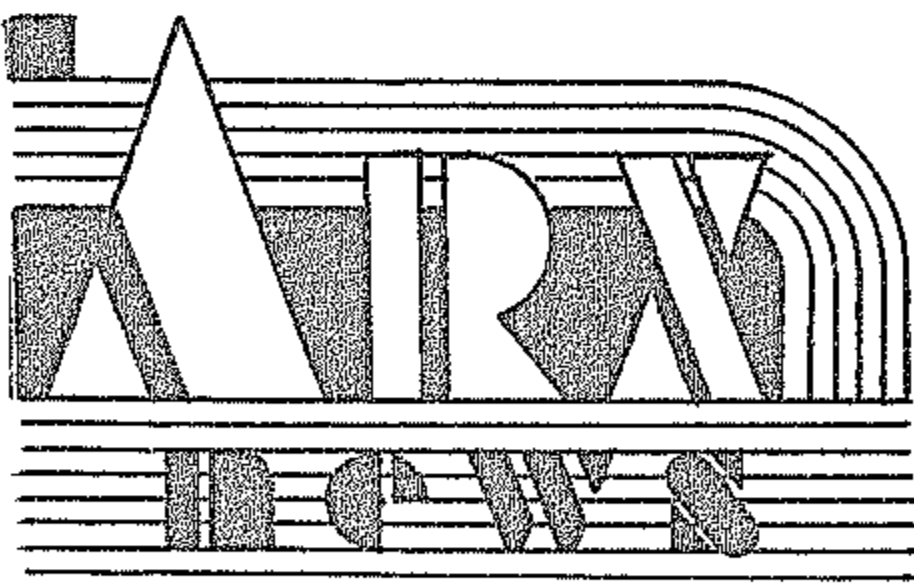
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The great American pastime of procrustation is being practiced to the utmost by all of us (voice—"not me.") and that large round black object with the numeral 8 on it will soon be attached like a grindstone around our necks (voice, again—"not me!").

This week is dedicated to Gloom. Worry, worry. Things look blackest for REINKE AND STOWELL, they both have black eyes. They were given out in a spirit of fun but the spirit seems a little strained.

This gloomy mood reminds me of a gun—Jake, who has received a First Mention plus a Mention in two successive Life judgments.

The latest Armour organization is now taking in members. Its title is the "Up the Creek Charette Club." Join now and get your name on the list.

ART GUM.

Fraternity Notes

Fraternity men will go stepping next week in the Mediterranean Room of the Lake Shore Athletic Club to the rhythm of Art Janke when the interfraternity formal dinner-dance comes off.

Theta Xi takes pleasure in announcing the initiation of William K. Emmerich, E.E. '38 Ralph W. Gruetzmacher, E.E. '40 and the pledging of Edward C. Mock, M.E. '42 Frank R. Grote, M.E. '42 William E. Manstrom, M.E. '42 Gordon T. Henry, M.E. '42 James E. Partlow, M.E. '42 Harold P. Adams, M.E. '42 John R. Mangan, M.E. '42.

Election of officers has been a major subject of discussion at most of the houses. Two of the fraternities have already announced their leaders.

Sigma Alpha Mu has elected the following men for the next two semesters: Prior I. E. Schlifke Exchequer R. S. Kohn

Recorder A. Levenberg Assistant Exchequer R. Abrahamson Historian M. Skoller Pi Kappa Phi officers for next semester elected last Thursday are: Archon T. L. Speer Treasurer F. J. Heidenreich Secretary R. B. Maxwell Historian W. B. Buckman Warden R. B. Burman Chaplain C. Laskowski

The Rho Delta Rho house-warming party will be a stag affair and will be held between semesters. There will be moving pictures, refreshments, and games.

Also along the party line will be a small stag party at the Pi Kappa Phi house after the installation of officers on Thursday—eats an' everythin'!

The Phi Kappa Sigma pledges are planning a dance for the house between semesters.

Rho Delta Rho wishes to congratulate Phi Kappa Sigma on their victory in the interfraternity basketball tournament. The Phi Kapps also thank the Rho Deltas for the competition and sportsmanship which were displayed.

The Slipstick

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

Before starting the funny part of this column, we wish to take time out to offer our thanks to our faithful readers. After last week's announcement regarding our retirement from the staff, a barrage of letters stormed the News Office imploring us to continue our writing. Our decision is final! No matter how hard you beg we must keep our poise and not give in. After all, the News already has the best years of our lives. We are worn, tired and out of joke books. Anyhow, we gotta go next week!

Announcement: If you are in warrorn Shanghai and are worried about getting it, let us inform you that Munch-Crunch is now available at Ito's Geisha Gardens, formerly Lee Koen's Kosher Kanteen. No rise in prices.

POEME

My parents told me not to smoke. I don't. Nor listen to a naughty joke. I don't. They told me it was wrong to wink At pretty girls or even think About intoxicating drink. I don't. I kiss no girl, not even one, In fact I don't know how it's done. You wouldn't think I had much fun— I don't.

A sophomore is a freshman who paid his tuition twice.

If a girl looks old, she's young. If she looks young, she's old. If she looks back, follow her.

Here's to a friend—he knows what you are and still likes you.

Give her something she likes— frinstance, Munch-Crunch.

WHYZDER SOMENIMOR ORSIZASIZ DANDERIZ ORSIZ??

SOUNDS IN THE NIGHT

"Pass me the Munch-Crunch while I wait, Toots." "Move over." "Ma, kin I have a glass of water?" "Shh!" "That damn Metallurgy!" "I smell gas!" "Phfft!"

Stoopbrain Finds Nasty Old Profs ucks' Cooking Up Misery; Says, "Shucks"

Dear Sally, Wel, Sally, another yeer has cum and flu, but I still go on lovin' yew. Unquote. And heer I am bak at skool after those swel hollydays with awl the folks and yew bak home in Hardwater Gulch.

Gosh, it were swel. I'm crazee abowt that blew polkadot tie with the yellow peech stains down the front that yew gave me for Christmas. I where it evry day with that pear of blew shews Uncle Marshgrass gave me.

This semester at skool is rapidley drawing to a klose. Next week, exams begin. Gosh, I shure am skairt. The profs, with snears on their faces, and whiked gleems in there eyes say—"Exzam next weak," and then they let owt a deap, slow laff that crezendos into a roaring chuckle, and there eyes rowl, and they shake awl over, and we students shrink down, down, shivring awl over, with cold swet clinging too our faces, and the blood drains owt of our heds, leafig a vacuum. I'm telling yew, Sally, I will have a nervos brakedown unless a car hits me first.

Wat a danze laste weak at the My Dinah Athletik Klub. The sophomores shure put it on big. I hav

never sean so much bewtiful feminine pulchritude outside of Ezrielda, who I karted to the danze. During the "Fruit Danze," I bent over, and my britches split. My red flannells saved the day, or nite. I waz gone so fast fast from there that my shadore stood there bewilderred like, skratcing its hed and wondering wear I had went. Anyway, at the end of the evening, I kame to this conclusion about Ezrielda and me, "Love is an institution, love is also blind, therefore love is an institution for the blind." Aw nutz.

As I waz having a beer the other day, Sandy and Jock accidentally met face to face in the tavern. Both of them, the barkeep sed, had treeted themselves a la Dutch for yeers, so their waz momentary embarzment. Sandy, sparring for time, asked Jock wear he had been keeping himself, to wich Jock replied—quite, in bed with youres." "Youres," asked Sandy, "what's youres?" Jock lost no time. "Ill hav a bit of Scotch," he replied. I think he's got sumthing there.

Tell Pa its time to gather the wool off the sheep. He'll get a lot of shear pleasure owt of it.

Yures, Stoopbrain Bliss.

With candy experts it's Munch-Crunch, two to one.

Salesman (beginning to unroll his samples)—"I'd like to show you—" Merchant (emphatically) — "No, no, I'm not interested." Salesman (eagerly)—"But couldn't I just show you—" Merchant (firmly)—"NO!" Salesman (wistfully) — "Well, would you mind if I looked at them myself? I haven't had a chance to see them for three weeks."

Stewed to the gills: "Do you shpeak to strangers on the shtreet?" Cute blonde: "Oh, no, never!" Still stewed to the gills: "Well, then, shut up!"

"Marry me?" "No." "Aw—just this once."

Well, anyhow, we can still be friends . . .

Munch-Crunch contains a sodium acetyl salicylic analaesic which counteracts hyper-acidity. Try it. See if we care.

Just one more! Gee! Eejay and Zazu.

Co-Op Code

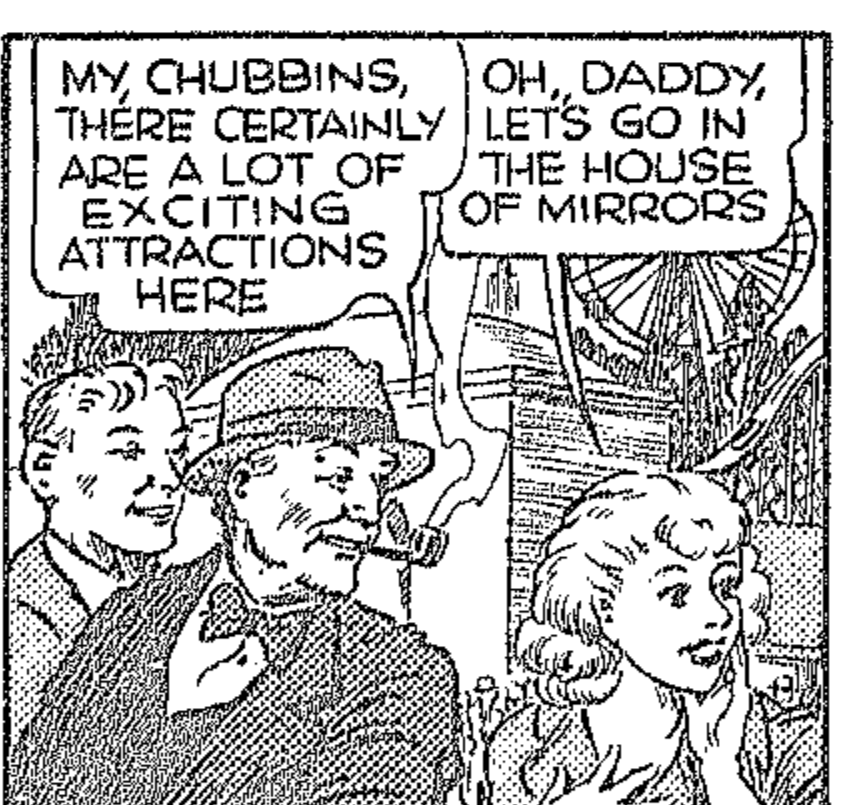
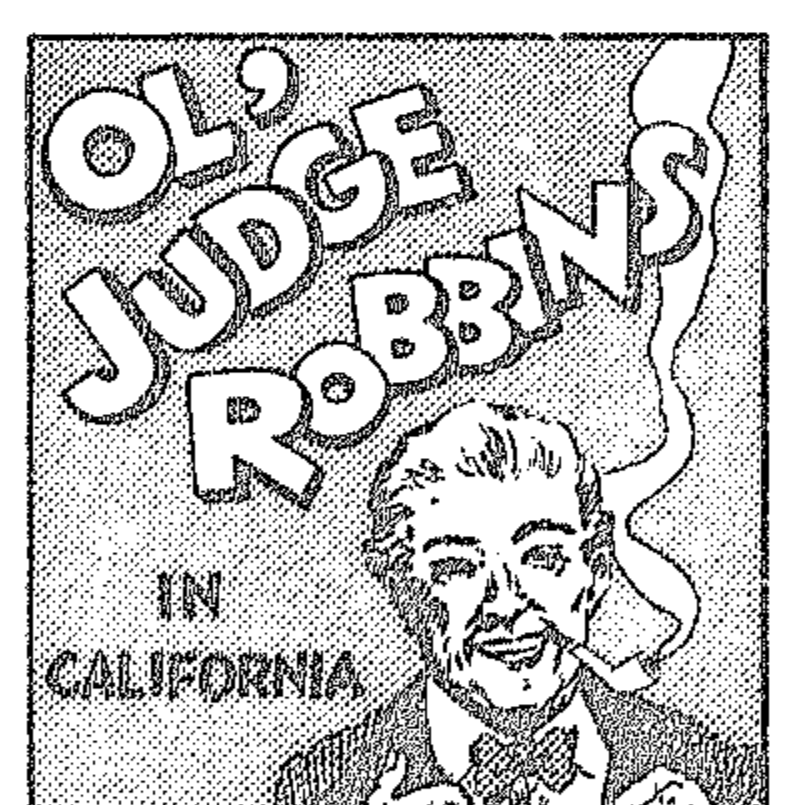
Obituary: The right half of G. M. ANDERSON'S mustache, age three weeks, died suddenly last Tuesday of wounds sustained in an argument with an electric razor in the hands of persons unknown.

Suggestion for an impromptu foot race: Ask D. WHITTINGHAM what a "butter-ball" is, in a tone of voice suggesting you know what it is all about.

Experiments on the longitudinal vibrations produced by stroking long pieces of chalk against the blackboard were abruptly terminated when sensitive-eared G. LAVOLD went about breaking said chalk pieces in half. So, he's the fellow that causes so many little pieces of chalk to be hereabouts. . . .

Some 50 per cent of the freshmen "Co-ops" sport a variety of pipes. Careful, boys, you'll stunt your growth.

What three "Co-op cut-ups" were unpleasantly surprised when "Doc" Sprague caught them building a snowman in his chair? Was that fun!



ASK THE EXPERIENCED PIPE-SMOKERS! THEY KNOW A GOOD BUY IN TOBACCO— PRINCE ALBERT. IT'S NO-BITE TREATED FOR MILDNESS— CRIMP CUT TO PACK AND DRAW RIGHT!

50 pipefuls of fragrant tobacco in every 2-oz. tin of Prince Albert PRINCE ALBERT THE NATIONAL JOY SMOKE



A. M. Zarom

Strained Relations—

Relations between the United States and Japan, which never have been exactly fraternal, were recently strained to an alarming degree when news of the bombing and subsequent sinking of the Panay—an American gunboat on rescue duty in the orient—was received. For a while it seemed that grave consequences would appear—and they have. Although the State Department has accepted the Japanese "apology for the incident" the matter has by no means been considered as forgotten.

As Japanese aggression continues in China, more and more Americans are beginning to realize that Japan will sooner or later run amuck and that something must be done about it before the world is set aflame again as it was in 1914. This worry has kept our State Department working overtime.

In answer to a Senate resolution requesting information on the amount of American trade with China, Secretary of State Mr. Cordell Hull recently stated: "Referring expressly to the situation in the Far East, an area which contains approximately one half the population of the world, the United States is deeply interested in supporting by peaceful means influences contributory to the preservation and encouragement of orderly processes. This interest far transcends in importance the value of American trade with China or American investments in China, it transcends even the question of safeguarding the immediate welfare of American citizens in China."

Hitler and Mussolini had better pay good attention to that note for the warning it carries is aimed directly at dictatorships in general. Should the dictators force the hand of democracy we be unto them. A combination of the British and French fleets could maintain an upper hand in the Mediterranean and North Seas—while the American Navy could successfully quarantine Japan and keep her isolated for as long as is necessary.

Whether or not such an event will ever arise means little. The fact is: if it does arise it can be handled.

Marriage Licenses—

Last Wednesday, the Indiana State Supreme Court handed down a decision which is bound to have far-reaching effects in the future. The decision upheld a statute eighty-six years old. This statute, enacted so many years ago, specifically forbids the issue of marriage licenses "to women who are not residents of the county in which the license is issued."

Some six months ago when Illinois' new hygienic marriage law (which requires that couples submit to medical examinations for venereal diseases before a license can be issued to them) was put into effect, marrying justices of the neighboring state of Indiana found that they were doing a much greater business than ever before. At Crown Point alone, the marriage rate rose from nearly 500 couples a month in 1936 and for the first six months of 1937, to the amazing number of 1910 couples in the month of July. For a while it seemed as if the immediate effect of Illinois' attempt to raise its marital standards, was an increase in business for Crown Point "marrying justices." This abnormal condition has at last been remedied.

Justice James P. Hughes, who wrote the opinion in the decision, said: "One of the great evils in the country today is the loose marriage and divorce laws. Adjoining states, during the last few years, have enacted strict laws concerning the issuance of marriage licenses and because of this fact, in order to evade the law, thousands have come to Indiana and secured marriage licenses, and by so doing have not only evaded the laws of their respective states but also have been parties to the violation of the laws of our state."

"Courts of justice in one state should out of comity help to enforce the laws of another state when by such enforcement they will not violate their own laws or inflict an injury on some one of their own citizens." Thus the first step is taken toward aiding Illinois enforce her new marriage law. It would be well if more states followed her example.

Professor Freeman Speaker on Second of New Radio Talks

As a sequel to the discussion by Professor Freeman on the "Contribution of Things Electrical to Our Civilization," the electrical engineering department presented the second of its series of radio talks last Saturday evening at 7:15 p.m. over station WCFL. This program, as were previous programs, was under the direction of A. P. Schreiber, publicity director.

Professor Freeman discussed the third principal application of electricity: power. He compared the amount of power required to light an electric light bulb with the amount of power required to run large machinery using the horse as his unit of comparison. The two other principal applications of electricity mentioned by Prof. Freeman were communication and lighting.

To illustrate the tremendous amount of electrical power developed Professor Freeman stated, "... If our entire population of one hundred and thirty million people were all trying to perform the work that is now done electrically, they could do only a very small part, perhaps less than a tenth of it, with little or no time left for other things ..."

In addition to time saved by electricity Prof. Freeman pointed out the economic value of electricity by calling attention to the fact "that in the supplying of electricity there is invested about twelve billions of dollars, and over three hundred millions of dollars are paid to about two hundred and fifty thousand workers in this service which serves twenty-four million customers."

This program, which was the second of the third series of radio programs sponsored by the Institute, will be continued next Saturday evening over WCFL at 7:15 p.m.

Second Annual Radio Script Contest Opened by Drake

Drake University's department of radio announces its second annual radio playwriting competition. Scripts may be submitted at any time until the close of the contest on March 15, 1938. Fifty dollars in cash prizes are offered for the best original radio plays submitted.

First prize is thirty-five dollars, with a second prize of ten dollars and a third of five dollars. The competition is open to both amateur and professional writers of the United States. Scripts should play either 13 or 26 minutes.

Movies on Steel Heard by A.I.Ch.E.

A sound movie, with "Steel" as its subject, was shown to the Armour chapter of the A. I. Ch. E. last Friday. The first part of the picture showed vividly how coke, limestone, and iron ore are turned into pig iron. This, as molten metal, is poured into a large vat, where it is kept molten until called for, to be made into steel.

Steel can be made in three principal ways: by the Bessemer converter, which does it cheaply, and effectively for certain steels, but is not easily controlled; by the electric furnace, which costs more to run, but can be controlled with precision (It is used only for highly specialized steels because of the cost); and by the open hearth furnace, which can be cheaply run, and well controlled. The glowing steel was shown "blowing" in a Bessemer converter, spilling from an electric furnace, and "cooking" in one open hearth furnace. Numerous tons of metal are handled at one time.

The analyzing laboratory plays an important role in the steel industry. As soon as a sample from a furnace has shown that the steel has come up to specifications, the furnace is tapped and the liquid flows into molds to freeze into "pigs." "Soaking pits" then keep these billets at a constant temperature throughout until they are ready for the rolling mill.

Rolling steel in the automatic rolling mills seems to put the steel to life as it goes into one end of the mill, crawls out the other, and then reverses the process, almost voluntarily. The apparatus that turns it over seems equally human in its actions.

All operations of machinery in the mills is carried on from remote "towers" and behind windows.

A. I. E. E. Will Honor Graduating Member

To the most outstanding of the graduating members of the Armour branch AIEE will go a one year fully paid associate membership in the national AIEE, given by the Chicago section of the AIEE. The branch members are to select the student from a group of candidates to be chosen by the student papers committee headed by E. Brown. The committee will base their selections on the scholarship, extra-curricular activities, and AIEE activities of the student. The final selection of the recipient of the award is to be made by vote of the branch members. Similar awards are to be made to outstanding men at Northwestern University and Lewis Institute.

A prize of one hundred dollars is offered by the national AIEE for the best paper submitted by a student member. Papers entered in this national contest will be judged mainly on their composition, originality, and technical aspect.

A technical discussion of television difficulties was given by G. M. Ives at last week's AIEE meeting. A drawn out business discussion made it necessary for him to curtail his talk.

Armour Alumnus Talks to A.S.M.E.

Lectures on Efficiency of Centralized Steam Plants

Mr. John C. Segeler, assistant chief engineer at the University of Chicago, spoke at the A. S. M. E. meeting last Friday. Mr. Segeler, who is a mechanical engineering graduate of the class of '28, discussed the relative advantages of central heating plants over small individual units.

The present U. of C. power plant, which consists of four coal fired, 1200 H.P. boilers is located over a mile from the university campus. The steam is delivered to the various buildings via a system of underground tunnels. The university, since its beginning in 1892, has had several plants each of which have supplied power from a centrally located plant.

The efficiency of the Chicago plant can be determined, it was pointed out, by steam flow meters located at the boiler, at the taps from the main line, and at the buildings. The meters are read bi-monthly and checked against each other. Of 397 million pounds of steam generated at the boiler last year, a total of 334 million pounds were delivered to the buildings. Thus 16 per cent of the power was lost in the tunnel system. In spite of this loss the overall efficiency still compares favorably with other plants in the country.

Low fuel and labor costs are other advantages of a central plant. It was pointed out that coal for small individual units would cost \$4.50 per ton due to the hauling expenses. The cost per ton for the university plant for last year was less than \$3.00 per ton. The plant requires seventeen men to operate it. Individual plants for equivalent output would require more than 89 men to operate satisfactorily. The total cost of the steam, including fuel, labor, and depreciation, amounted to 72 cents per 1000 pounds.

The senior members of the society made a tour of the plant after the talk.

Co-ops Visit Tractor Plant of International Harvester

Visiting the tractor works of the International Harvester Company, the Co-op Club spent the entire morning last Wednesday going through the foundry, forge, heat-treating, machining, and assembly departments.

Tractors in the making were subjects of interest to the groups as they toured the large plant. The more spectacular sights included the steam hammers in the forge room mounted on a concrete base sixty-five feet thick, and welding steel ties fourteen inches wide which produced a fan of sparks fifteen to twenty feet high.

Among the future trips scheduled is a trip to the R. R. Donnelly & Sons printing plant next Friday, January 21.

Other activities planned by the Co-ops are a buffet supper and dance at a downtown hotel on February 5 with the attention also centering on a skating party Sunday, January 23.

Sophomore 'Winter Frolics' Year's First Social Success

Approximately six hundred Tech-hawks danced to the rhythm of Emil Flindt last Friday evening at the "Winter Frolics," the annual sophomore social event.

The dancers found ample room for their pleasure in the Grand Ballroom of the Medinah Athletic club. The low price of the bids helped attract the large attendance at Armour's 1938 social debut.

The balcony lounges proved popular to the less energetic of the merry-makers. The private elevators and ample parking facilities added the finishing touch to an excellent arrangement.

The dance was ably handled by the sophomore social chairman, Gene Worcester, who made the affair both a financial and social success.

Graduate Division to Award Scholarships

Grinter Releases List for 1938-1939

Announcement has been made of scholarships, fellowships, and assistantships which will be available in the graduate division for the year 1938-1939. Graduate study and research may lead to advanced degrees in civil, electrical, mechanical or chemical engineering, physics, or mathematics.

The graduate student will be given an unusual opportunity for contact with both pure and industrial research in the Research Foundation. Departmental laboratories are also available to the graduate student.

Applications for appointments are to be made before February 20, 1938, although delayed applications may be considered later. The announcement of appointments will be made March 10. The scholarships, available to students of good scholastic qualifications, carry a stipend of from \$300 to \$400 per year, while the fellowships carry from \$400 to \$900. The recipients of teaching and research fellowships or of industrial fellowships and assistantships will be students who show unusual promise in graduate or industrial research work. The usual stipends for these appointments are from \$800 to \$900 and from \$1000 to \$1200 respectively.

A post-doctorate fellowship in the Research Foundation is available with a stipend of from \$1600 to \$2000. Those desiring to be considered in the first list of appointments are requested to apply to Dr. L. E. Grinter, dean of the graduate division, before February 20, 1938.

Tribune Plant Visited by Tech News Staff

Printing presses, engraving processes, scores of linotype machines—newspaper work on the large scale of *The Chicago Tribune*—were seen on Monday evening of last week by members of the *Tech News*.

A movie, entitled "Trees to Tribunes," was shown before the beginning of the tour through the huge plant. This was taken at Shelter Bay, a town erected by *The Tribune* on the St. Lawrence River in Canada.

The morgue proved to be interesting as it contained filed stories and pictures of everybody, notable and obscure, which for one reason or another have been in the news during the last thirty years. More than three million clippings and over seven hundred thousand photographs are available.

One room is devoted to the photograph department where photographs are taken of photographs. Reproductions of these photographs in metal are known as line engravings and are mounted on a metal base and sent to the composing room. The composing room contains seventy-two linotype machines and many makeup banks.

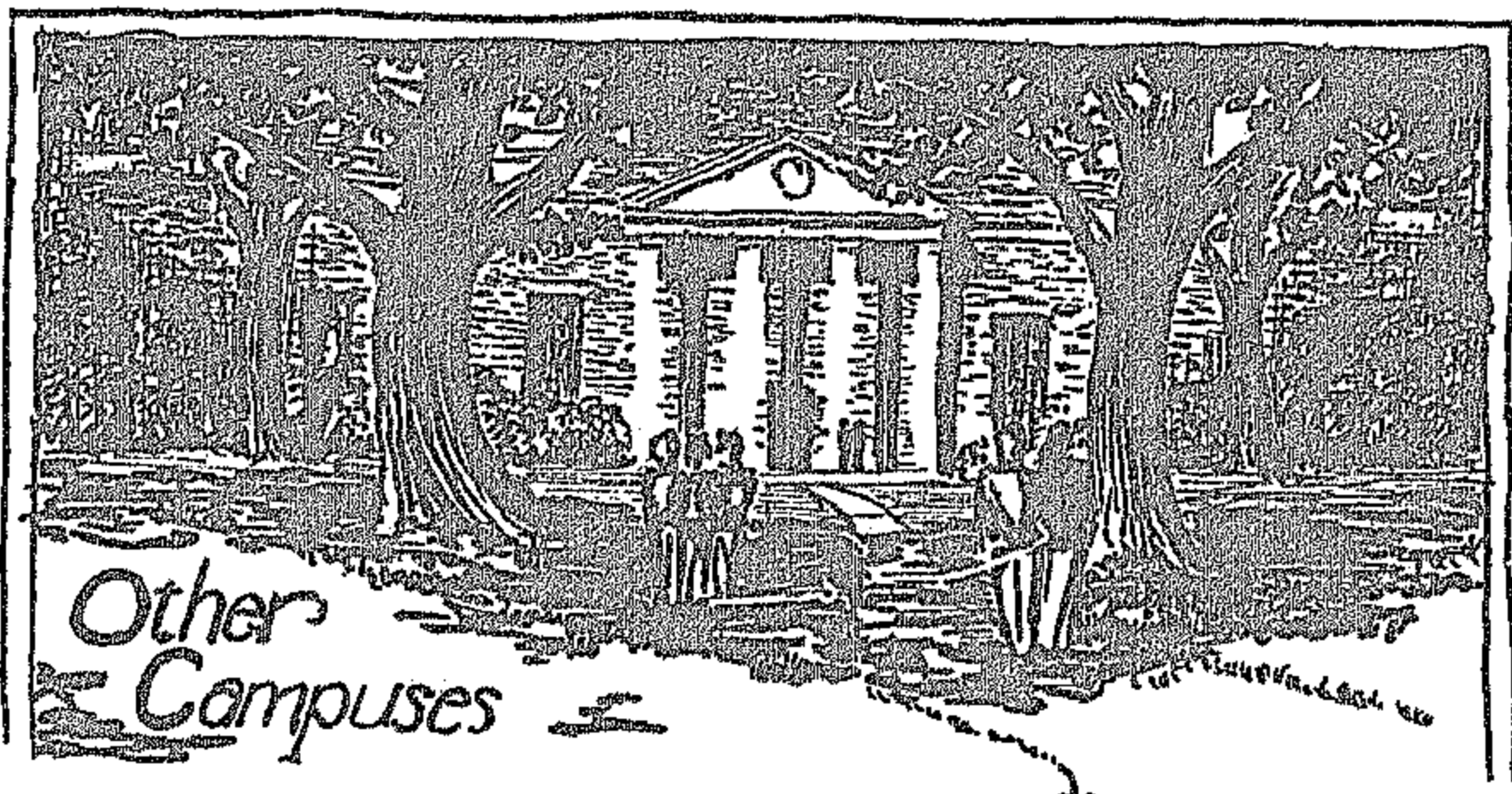
The group then saw the making of the stereotype which is used on the large presses. There are eighty-eight news printing units in the Tribune pressroom. A combination of seven of the new high speed press units recently installed by the Tribune can print 50,000 fifty-six page papers in an hour.

After the tour, tickets to a radio broadcast were given out to the visitors. The program given by the WGN concert orchestra concluded a very enjoyable evening.

Final Examinations

First Semester 1937-1938		
MONDAY, JANUARY 24		
Time	Instructor	Place
8:30-10:20	Math. 10	Gymnasium
Higher Algebra, Math. 10	Math. Instructors	Gymnasium
College Alg. & Elem. of Trig., Math. 101 A-L*	Math. Instructors	Drafting Room, Main Building
College Alg. & Elem. of Trig., Math. 101 MC-Z	Math. Instructors	Gymnasium
Elementary German, German 101	Hammer	Science Hall
Elements of Heat Power, M.E. 412	Libby	211 Chapin Hall
Elementary French, French 101	Hammer	Science Hall
Electricity, E.E. 414 (Civils)	Kent	214 Chapin Hall
Metallurgy, Ch.E. 405	Carpenter	Drafting Room, Mission Bldg.
10:30-12:20		
Engineering Mech., Mech. 201, 202	Mech. Instructors	Gymnasium
Applied Mechanics, Mech. 203, 204	Mech. Instructors	Gymnasium
Electricity, E.E. 414	Nash	Science Hall
Alternating Current Machinery, E.E. 401	Freeman	Drafting Room, Main Building
Architectural Practice, Arch. 401	Harper	Art Institute
1:10-3:00		
Experimental Engineering, M.E. 308, 310, 407	Lab. Instructors	Gymnasium
3:10-5:00		
Logic and Argumentation, English 201 A-E*	English Instructors	Gymnasium
Logic and Argumentation, English 201 F-Z	English Instructors	Drafting Room, Main Building
Soil Mechanics (Civils)	Ensz	211 Chapin Hall
Differential Equations, Math. 301	Ford	214 Chapin Hall
Theory of the Complex Variable, Math. 503	Ford	214 Chapin Hall
TUESDAY, JANUARY 25		
8:30-10:20	Physics 201	Gymnasium
General Physics, Physics 201	Physics Instructors	Gymnasium
General Physics, Physics 202	Physics Instructors	Drafting Room, Main Building
General Physics, Physics 203	Physics Instructors	Drafting Room, Main Building
Electric Power Plants, E.E. 406	Freeman	Science Hall
10:30-12:20		
General Chemistry, Ch.E. 101	Chem. Instructors	Gymnasium
Mechanics of Materials, Mech. 301 A-G*	Mech. Instructors	Drafting Room, Main Building
Mechanics of Materials, Mech. 301 H-Z	Mech. Instructors	Drafting Room, Mission Building
Flow of Fluids, Mech. 303	Mech. Instructors	Drafting Room, Main Building
Graphic Statics, C.E. 314	Spears	211 Chapin Hall
Heat Power Engineering, M.E. 411 (Civils)	Libby	214 Chapin Hall
1:10-3:00		
Business Organization & Control, Soc.Sc. 201	Hansen	Science Hall
Descriptive Geometry, Arch. 101	Harper	Art Institute
Structural Design, C.E. 413 (Arch.)	Spears	211 Chapin Hall
3:10-5:00		
Engineering Shop, M.E. 318, 418	Pearl	Science Hall
Astronomy, C.E. 401	Penn	211 Chapin Hall
Electricity, E.E. 415 (Ch.E.) (F.P.E.)	Ahern	Drafting Room, Main Building
WEDNESDAY, JANUARY 26		
8:30-10:20	Thermodynamics, M.E. 305	Science Hall
Elementary Thermodynamics, M.E. 316	{Nachman Winston Peebles}	211 Chapin Hall
Railway & Highway Const., C.E. 302	Stevens	214 Chapin Hall
Machine Design, M.E. 205	{Swineford Hammett}	Drafting Room, Main Building
10:30-12:20		
Industrial Chemistry, Ch.E. 312	Schommer	211 Chapin Hall
Architectural Const., Arch. 201	Harper	Art Institute
Business Policy, Soc. Sc. 401	Soc. Sc. Instructors	Science Hall
Solid Geometry, Math. 11		Drafting Room, Main Building

*Names beginning with these letters (Inclusive)
(Continued on page four)



By James Hebson

Women clad in evening gowns and young men wearing tuxedos walked to and from a dance at the University of Oklahoma recently when four taxi companies failed to reach an agreement on cab fares. University officials declined to lift the no-car rule until taxicab service was restored.

Dr. L. L. Click of the University of Texas presents the following two reasons why freshmen flunk:

1. Either the freshmen get too scared of their studies.
2. Or they don't get scared enough and go to sleep.

Texas Christian university student pastors travel a total of nearly 25,000 miles each month, preaching from the pulpits of Texas churches.

"Using one's head is difficult at any time especially in the matter of choosing a life partner," says Dr. W. G. Mather Jr., head of the sociology department at Franklin college.

Thirty-three Cornell upper-classmen took over the Hotel Astor for one day, a regular chore in their hotel management course at Ithaca.

One doesn't keep up with the Joneses, at Pennsylvania State college; one tries to keep up with the Millers. A check of the recently issued student directory reveals the fact that there are 27 Joneses in school, 62 Smiths (including one Smyth) and a total of 64 Millers.

In protest against Japan's invasion of China, 500 delegates to the American Student union convention fed silk stockings, lingerie, and neckties to the flames of a bonfire on Vassar college campus recently.

"The educational spoon in America is handled by competent and understanding teachers, but the students should do the feeding themselves," according to Dr. Alexis Carrel, renowned scientist.

Patrick O'Shaughnessy Flynn, a goat belonging to a University of Minnesota sorority, is being sent to his home in Grinnell, Iowa. It's not because Patrick doesn't like his environment, but because his garage has been rented to a car owner.

According to the findings of Dr. Harvey C. Lehman of Ohio university, the best achievements in sports come between the ages of 25 and 30. In other words, a man can't be a champion golfer unless he has a business to neglect.

Within a few years Ohio State will turn out its first class of college-trained "game wardens" to protect the nation's two-billion-dollar wild life resources. Only recently introduced, the course includes classwork, research, and field work.

A member of the University of Delaware physical education staff claims to be the first college instructor to live in a trailer.

A survey taken at the University of Oklahoma shows that women have a more difficult time making up their minds than men. From a group of each sex selected at random, 56 women changed their minds 95 times regarding vocational interests, while 68 men made only 92 changes.

Pennsylvania State college students who cut classes the day before or after a vacation are fined \$5.

Temple university is conducting a research program through its College of Liberal Arts and Sciences into the cause of freshman failures.

Enrolled at Oregon State college is a student named June May March.

For the first time in 25 years freshman fraternity pledges at the University of Wisconsin are permitted to live at their respective fraternities. Formerly, freshmen were required to reside in dormitories.

A self-expose by Aldons Huxley, English author: "I should be very un-

happy if I had been educated in America. I understand that you in your system can't cut lectures. When I was in school I attended on the average of two lectures a week."

The University of Washington supplemented the usual college songs with swing music by a pop band at football games last season. Between quarters, a 13 piece band played swing tunes especially arranged for the games by student arrangers.

At least one sorority at Oklahoma university has solved this business of "sneaking" some one else's "date." There is a strict rule in the organization which forbids dating a boy whom a sorority sister is already dating.

Teaching at Cleveland college of Western Reserve university seems to be a family affair to 12 members of the faculty. There are now six "husband and wife" teams teaching at the college.

(Continued from page three)

1:10-3:00
Economics, Soc. Sc. 101-A-E*
Economics, Soc. Sc. 101 F-Z
Water Supply Eng., C.E. 405
Soc. Sc. Instructors
Drafting Room, Main Building
Gymnasium
211 Chapin Hall

3:10-5:00
Differential & Integral Calculus, Math. 201 A-I*
Differential & Integral Calculus, Math. 201 J-Z
Differential & Integral Calculus, Math. 202
Math. for Architects, Math. 103
Analytic Geom. & Appl. of Trig., Math. 102
Math. Instructors
Drafting Room, Main Building
Gymnasium
Gymnasium
Science Hall

THURSDAY, JANUARY 27

8:30-10:20
Physical Chemistry, Ch.E. 308
Mechanical Equip. of Bldgs., M.E. 314
Steam Power Plants, M.E. 401
A. C. Circuits, E.E. 403
Freud
Seegrist
Nachman
Richardson
Science Hall
211 Chapin Hall
Drafting Room, Main Building
214 Chapin Hall

10:30-12:20
F. P. E. Lectures, F.P.E. 301
Underwriter's Standards, F.P.E. 405
Hist. of Architecture, Arch. 103
Higher Structures, C.E. 404
Chemical Engineering, Ch.E. 401
Finnegan
Finnegan
Harper
Grinter
Kintner
Science Hall
Science Hall
Art Institute
211 Chapin Hall
Drafting Room, Main Building

1:10-3:00
Mechanism, M.E. 201
Elements of Electrical Eng., E.E. 201
Elementary Surveying, C.E. 202
Organic Chemistry, Ch.E. 204, 208
Swineford
Winston
Seegrist
Richardson
Penn
{Freud
{Manley
Science Hall
Drafting Room, Main Building
211 Chapin Hall
Gymnasium

3:10-5:00
Literature & Compos., Eng. 100, 101 A-E*
Literature & Compos., Eng. 100, 102 F-Z
Advance Mach. Design, M.E. 303
D. C. Machinery, E.E. 301
Stresses in Framed Structures, C.E. 303
English Instructors
English Instructors
Perry
Moreton
Wells
Drafting Room, Main Building
Gymnasium
Science Hall
211 Chapin Hall
214 Chapin Hall

FRIDAY, JANUARY 28

8:30-10:20
Descriptive Geometry, M.E. 103
Chemical Engineering, Ch.E. 303
Aerodynamics, C.E. 410
Schedule Rating, F.P.E. 408
Machine Design, M.E. 205 (E.E.)
Seegrist
Hammett
McLarney
Anderson
McCormack
Wells
Sorensen
Huntly
Drafting Room, Main Building
Science Hall
211 Chapin Hall
214 Chapin Hall
205 Chapin Hall

10:30-12:20
Fire Insur. Sched., F.P.E. 201
Building Construction, C.E. 311
Public Policy, Soc. Sc. 402
Finnegan
Spears
Soc. Sc. Instructors
211 Chapin Hall
214 Chapin Hall
Science Hall

1:10-3:00
Fire Insur. Practice, F.P.E. 305
Special Hazards, F.P.E. 406
Finnegan
Finnegan
Science Hall
Science Hall

*A-L, M-Z refers to members of class whose names begin with these letters.

PLEASE REPORT ALL CONFLICTS TO THE OFFICE OF THE REGISTRAR IMMEDIATELY

STEAM SHOVEL

JACK GREGORY, the titian-haired titan of the electrical department, has finally given up his ambition to become a movie star. "They don't even return my picture any more," complains JACK.

H. QUANDEE tried awfully hard to try and make the fellows believe one of the two photos appearing in his wallet was his mother. Incidentally, she was about the same age as Quan.

After a "weiry" three semesters, Adolph "Hitler" Runc finally managed to write up and finally submit his mech lab report on the weir test.

PROFESSOR BENNY GOODMAN REPEATS HIS COURSE IN SWING-OLGY FOR THE SECOND SEMESTER!



"GIVE!" signals Goodman. And Drummer Gene Krupa "takes it." The famed quartette, which steams out "killer-differs" on the Camel Caravan, consists of: Goodman on the "agony pipe" (clarinet)—Gene Krupa on the "suitcase" (drums)—Teddy Wilson on the "moth box" (piano), and Lionel Hampton on the vibraphone.

BENNY'S "IN THE GROOVE!" Here's the "King of Swing"—Professor Benny Goodman—"kicking out." They "go to town" every Tuesday night. First on the double-feature Camel Caravan comes "Jack Oakie College." Then Benny Goodman's "Swing School." Time—9:30 pm to 10:30 pm E.S.T., over WABC-CBS.

"PUSHERS" getting in a few "licks" (short, original improvisations) on their "gobble-pipes" (saxophones). Benny Goodman and his Swing Band won the title of the most popular band in the country. You just haven't heard "SWING" until you hear Camel's Professor of Swing-ology—Benny Goodman—burn up the ether.

EVERY TUESDAY NIGHT

Radio's big double-feature program, the Camel Caravan—60 fast minutes of fun, frolic, and fanfare. 9:30 pm E.S.T., 8:30 pm C.S.T., 7:30 pm M.S.T., 6:30 pm P.S.T.—WABC-CBS.

"JACK OAKIE COLLEGE"—

The big Camel Caravan leads off with Jack Oakie and his goofy collegians, broadcast direct from Hollywood. All-star cast includes funny-man "Stu" Erwin. Hear "Honest Jack" Oakie—"The Prez"—running a college. You'll never forget it!

PEOPLE DO APPRECIATE THE COSTLIER TOBACCOS IN CAMELS THEY ARE THE LARGEST-SELLING CIGARETTE IN AMERICA

Copyright, 1938, E. J. Reynolds Tobacco Company, Winston-Salem, North Carolina

Camel Caravan

2 GREAT SHOWS IN ONE HOUR

Fourth Straight Interclass Track Meet Won by '38

Outpoint Juniors 45 to 36 in Adding Last Win to List

SOPHS TAKE THIRD

For the fourth consecutive year, Armour's class of '38 swept the field at the University of Chicago Fieldhouse last Wednesday afternoon, and maintained its title in the annual Armour interclass indoor track meet. The turnout was the largest of recent years and all classes amassed well balanced scores.

Seniors Garner 45 Points

The seniors garnered 45 points, while their threats, the juniors, were checked down to 36. It was last year that the present junior class was strong enough to hold the titleholders in check until the final events. These found the seniors again taking the front with a slim margin.

The first year men were the big surprise of the meet, Wednesday, the prognosticators having failed to give the frosh even a fighting chance; but the yearlings surprised all when they gathered 17 1/2 points. The sophs came through third with 20 1/2. The juniors, repeating last year's policy, garnered the most wins, taking five, while the seniors broke the tape four times, the sophs and frosh each once.

440 and 70 Yd. Lows Close

The 440 and the 70 yard low hurdles were the two most hotly contested races of the afternoon. The frosh were able to add eight points to their total in the 440 since both Covington and Mathews ran the distance in 55:3. The race was judged a dead heat. In the 70 yard low hurdles Dunbar and Rogge waged a battle, and the points were again divided.

The juniors and seniors were tied in points until the 880 event when, by placing Deuter first and Bodnar fourth, the seniors gained a lead in the meet which they never gave up. In the high jump, which was taken by Simeon at 5 feet 5 inches, Abbott and Heidenreich divided second and third place points by clearing the bar at 5 feet 4 inches each.

Sophs Have Lone Win

Ewing gave the sophs their sole first place by winning the mile event in 5:19.3. Vandekieft gained the juniors an easy first in the shot put with a distance of 39 feet 10 inches, six feet further than the second place Abbott. The juniors also dominated the 70 yard high hurdles, placing Rothenberg first and Rogge second.

The junior relay team of Rothenberg, Rogge, Finegan, and Ryan outran the senior team in the final event of the meet.

Rothenberg got off to a nice start and gave the juniors a small lead which Rogge, number two man on the team, increased still more. Finegan maintained the junior lead against Englethaler or probably dropped a little. In the final lap Dunbar, senior anchor man, started out with about a twenty yard handicap, but managed to pick most of it up during the run and was barely nosed by Ryan in the final dash.

SUMMARY

Mile: Ewing (S), Bodnar (Sr), Roche (Sr), Coyle (Jr)—5:19.3.

70-yard dash: Bingham (Sr), Mathews (F), Cerovski (S), Zoellner (F)—7:5.

Shot Put: Vandekieft (Jr), Abbott (S), O'Brien (Sr), Pincus (F)—39 feet 10 inches.

70-yard high hurdles: Rothenberg (Jr), Rogge (Jr), Parker (Sr), Manfeld (Sr)—9:6.

440 yard: Covington (F), Mathews (F), Cerovski (S), Ryan—55:3. Dead heat.

2 mile: Finnegan (Jr), Faust (Sr), Roche (Sr), Opila (S)—12:17.

High jump: Simeon (F), Abbott (S), and Heidenreich (F) tied for second, Downing (Sr)—5 feet 5 inches.

880 yard: Deuter (Sr), Ewing (S), Kruse (Jr), Bodnar (Sr), Engelthaler (Sr)—8:5. Dead heat.

Pole vault: Dixon (Jr), Braun (Sr), Parker (Sr), Heidenreich (F)—10 feet 6 inches.

Relay: Juniors (Rothenberg, Finegan, Rogge, Ryan).

Phi Kapps Down Rho Delt's 11-10

Last Minute Rally Overcomes Rho Delt's 2-Point Lead

In a thrilling, hard fought contest, the Phi Kappa Sigma basketeers downed a strong Rho Delt team in the last twenty seconds of play, and won the interfraternity basketball title last Tuesday afternoon. They have the distinction of being the first title holders after the 19 year reign of Phi Pi Phi.

It was the flaming Phi Kap, Downing, who cinched the trophy for his fraternity. In the closing minutes of play, with the score 10 all, Downing after missing one charity toss floated his next one through the hoop for the eleventh and winning point.

In the first half, Charlton led the Phi Kapp's drive into the Rho Delt's half repeatedly, only to lose the ball on interceptions or on close shots. However, Downing broke the ice with a set up for two points. This was followed by a short hook by Charlton to make it 4-0 for the Phi Kaps and the half ended with the scoring hardly under way.

Opening the second half, the Rho Delt's scored their first point in the form of a free throw by Pincus. After a long shot by Whitehead and a set-up by Seidenberg, Clark made the score 8-3 on a back shot from under the basket.

The Rho Delt's then began to move and tied the score with Seidenberg arching a long one through the hoop, netting a free throw, and Epstein pushing a set up. Again the fighting spirit of both teams was displayed and after a scramble for the ball a double foul was called, both teams

Techawks to Meet Elmhurst and Michigan Normal Here this Week

With less than a week between them and the finals, the Techawks still find time to devote to basketball, two games being scheduled for this week. The schedule resumes in February when the squad makes its annual Michigan tour.

This afternoon Elmhurst will be guest at the Armory, and since it is the first engagement with Elmhurst for some years, they remain somewhat of an unknown quantity. The records show, however, that they have taken DeKalb this season and reveal therein the possibilities of some strong competition.

Friday afternoon will find a strong Michigan Normal five out on the 108th Engineer's Armory floor, waiting to do battle with the Techawks. Armour has had basketball engagements for the past decade with the Normalites usually playing one game here and one in Ypsilanti. Continuing the policy, Armour will journey up into Michigan on the third of February, and then on the fifth will meet Detroit University at Detroit.

The last three years have seen the Hawks victorious, taking two games in each year. In their first game last year, Armour triumphed easily, adding enough points to a half time lead of three points to bring the final to 31-22. Playing on their home floor in the return game gave the Normal an advantage, but Armour again came out on top with the narrower margin of 38-35. The Hurons led at half time and at one time had the score up to 29-19, but the Techawks went on a scoring spree. Sixteen points were garnered quickly which with a couple of free throws were enough to keep the record clean.

missing their shots. Then Pincus swished a long one to put the Rho Delt's in front, 10-8, for the first time. However, on a feeder play from Clark to Downing, the hero Phi Kap made a neat shot to tie the score. With the score tied, both teams pressed from one end of the floor to the other, making vain attempts to edge in on the bucket. With the fight at its peak, however, Downing received a foul, and scored the point in the last half minute of play. The game made history as far as the trend of fraternity basketball titles at Armour is concerned. Meanwhile, the Rho Delt's added one more runner up honor to the ones they already held in baseball and football.

TRACK SCHEDULE

Indoor:
Jan. 28—U. of C. Here*
Feb. 5—Open
Feb. 12—North Central. There
Feb. 19—Open
Feb. 25—Loyola. Here
Mar. 4—Elmhurst. Here
Mar. 19—Armour Relays
*All home indoor meets will be held at the U. of C. Fieldhouse.
Outdoor:
April 16—Beloit. Here*
April 23—Elmhurst. There
April 30—Open
May 7—Wheaton. There
May 14—Bradley. Here
May 21—Open
May 28—Loyola. There
*All home outdoor meets will be held at Stagg field.

Swimmers Lose to Loyola by 35 to 29

The Armour "Mermen" lost their second meet of the season to Loyola last Friday night by a score of 35-29.

The returning men were outstanding with Dodge, Svagdis and Winblad turning in a total of 22 points. Leroy Downing showed good form and with the season before him should turn in some excellent performances.

The medley relay, one of the victories for Tech, was the closest event of the evening, Armour winning by a touchout. Winblad's debut in the backstroke found him taking a close second.

Svagdis took his usual win in the breast, while Dodge took wins in the 100 and 220 frees. The Loyola squad offered strong competition in the 50 yard and the 200 relay.

The swimmers were inspired toward the wins they garnered, since all but three of them had their dates for the sophomore dance.

200 Yard Relay

Won by Loyola—Schied, Callanan, McKiever and Shapiro. Time, 1:50.6.

100 Yard Breast

Svagdis, Armour; Burke, Loyola; Matt, Loyola. Time, 1:18.3.

50 Yard Free Style

Doherty, Loyola; Shapiro, Loyola; Downing, Armour. Time, 0:27.0.

200 Yard Free Style

Dodge, Armour; McKee, Loyola; Slavin, Armour. Time, 2:29.0.

100 Yard Breaststroke

O'Schaunessey, Loyola; Winblad, Armour; Moore, Armour; Time, 1:50.

100 Yard Free

Dodge, Armour; Shapiro, Loyola; Callanan, Loyola. Time, 1:04.0.

Diving

Doherty, Loyola; Pettes, Armour;

Frosh Cagers Swamp Aeronautical U 20-5

Armour's freshmen won their game from Aeronautical U. Thursday night at the Armory with a score of 20-5. Although the score indicates a onesided game it was actually closely and loosely fought.

The frosh got away to a quick start when Whitehead sank a shot from the corner, which was followed closely with one by Johnson. After that, however, the game settled down to a grammar school type of affair. Late in the second quarter Whitehead tallied again, followed by an Aeronautical score by Sapolski, at which point the half ended, the score being 6-3.

In the second half the frosh snapped out of their lazy type of play and started ringing in the ball from all angles, making 14 points to their opponents 2. When the game ended the young Techawks were just starting to play ball and had the game continued, would have run up a huge score.

W. Johnson made seven points to lead in the scoring, while right behind him was Whitehead with six and Fisher with four.

The freshmen play again Saturday at North Central, lay off a week for examinations, and then continue a hard schedule meeting DePaul and Loyola in the very near future. The frosh dropped their first game to Loyola during the Christmas holidays by a score of 34-11, feeling greatly the absence of two regulars, Whitehead and Long.

Ryan, Armour.

Medley Relay

Won by Armour. Winblad, Svagdis, Downing. Time, 1:28.2.

"SING, YOU SON-OF-A-GUN"
—and Dick Powell did—47 times

1. "THE TITLE OF THE SONG" says Dick Powell, "certainly tells what I did in filming my new Warner Bros. picture, 'Hollywood Hotel'. Yet during all this work, Luckies never once bothered my throat. This is also true..."

2. "REHEARSING FOR 'Your Hollywood Parade', my new radio program. Luckies are the gentlest cigarette on my throat." (Because the "Toasting" process takes out certain irritants found in all tobacco.)

3. "THAT AUCTIONEER on our program reminds me that, among tobacco experts, Luckies have a 2 to 1 lead over all other brands. I think Luckies have a 2 to 1 lead also among the actors and actresses here in Hollywood."

4. "SOLD AMERICAN", the auctioneer chants, as the choice center-leaf tobacco goes to Lucky Strike. Men who earn their living from tobacco, know that Lucky Strike buys the finest grades. These men are the...

5. INDEPENDENT Buyers, Auctioneers and Warehousemen. Sworn records show that, among these experts, Lucky Strike has twice as many exclusive smokers as have all other cigarettes put together. A good thing to remember next time you buy cigarettes.

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"YOUR HIT PARADE", Saturday, 9 P. M., CBS
"YOUR NEWS PARADE", Monday thru Friday, 11:15 A. M., CBS (ALL CENTRAL TIME)

Wright Proposes Radical Changes in Small Housing

Voices Opinion in Issue of 'Architectural Forum'

The small, low-cost house problem can be solved only when America realizes that "a small house on a side street might have charm if it didn't ape the big house on the avenue," Frank Lloyd Wright, founder of the modern movement in architecture, declares today in the January issue of the Architectural Forum which was entirely planned, written and edited by him.

"To give the little family the benefit of industrial advantages of the era in which they live, something else must be done for them than to plant another little imitation of a mansion," Mr. Wright states in explaining that a charming four-room dwelling does not need a basement, a visible roof, radiators, light fixtures, painting, interior trim, plastering, gutters, down-spouts or a garage.

Designs Madison Home

He already has built a house incorporating these innovations in design for a Madison, Wisconsin family at a cost of \$5,500, including \$450 as the architect's fee, Mr. Wright emphasizes in Architectural Forum. By taking-advantage of mass production methods, he asserts, the cost probably could be brought down as low as \$3,500.

"There should be no complicated roofs. Visible roofs are expensive. They are unnecessary now.

"We need no radiators or light fixtures. We will heat the house the Roman way—that is to say—in or beneath the floors, and make the wiring system itself be the light fixtures, throwing light upon the ceiling. Light will thus be indirect except for a few outlets for floor lamps.

Basement Unnecessary

"The old-fashioned basement, except for a fuel and heater space, was always a plague spot. A steam-warmed concrete mat four inches thick laid directly on the ground over gravel filling, the walls set upon that, is better.

"No painting at all. Wood best preserves itself. Only the floor need be waxed.

"Interior 'trim' is no longer necessary.

"No plastering in the building, no gutters, no down-spouts.

"A garage is no longer necessary as cars are made. A carport will do, with liberal overhead shelter and walls on two sides."

Mr. Wright points out that only five materials were used to construct the new type of low-cost house: wood, brick, cement, paper and glass. The house has a large living room, adjacent cooking and dining space, two bedrooms and a bath.

"In our country the first obstacles to any real solution of the moderate cost house problem is the fact that our people do not really know how to live, imagining their idiosyncracies to be their 'taste,' their prejudices to their predilections and their ignorance to be virtue where new beauty of living is concerned.

Major Architectural Problem

"The house of moderate cost is not only America's major architectural problem, but the problem most difficult for her major architects. This needed house of moderate cost must sometime find reality, but where is a better thing to come from while government housing itself is only perpetrating their old stupidities?"

"I do not believe the needed house can come from current education, from big business, or by way of smart advertising experts. I do not think it will be a matter of expert salesmanship at all unless common sense has dropped to that level in America. It is, first, common sense that may take us along the road to the better thing.

"It is necessary to get rid of all unnecessary materials in construction, necessary to use the mill to good advantage, necessary to eliminate, so far as possible, field labor which is always expensive. It is necessary to consolidate and simplify the three appearance systems, heating, lighting and sanitation.

Cagers Overrun 44-28 by North Illinois Teachers

Led by Price, a freshman, garnering 16 points, the Northern Illinois State Teacher's basketball squad rampaged over the visiting Techawk cagers last Thursday with a 44-28 score. Although injured and taken out during the first half, he returned for eleven points in the last seven minutes.

The tilt, witnessed by a packed house of DeKalb citizens, was evenly matched during the first half, each squad having its own rally in turn. O'Brien made a spectacular showing for Armour with his opening hook shots, while Scherer warmed up on longs in the second half to score high for Tech.

Armour Gains Short Lead

After Price had opened his campaign with one short bucket, O'Brien faded through the DeKalb guards for his first hook shot. Scherer's free throw and O'Brien's next shot gave the Techawks a momentary lead.

Price tied it up unassisted and Davis, fleet darky of the opposition, took four of his eleven points under the basket. O. Peterson edged the local five's tally to 11 before Armour began to score again. Swanson started with a free shot, the first of his five out of six shots, Scherer made good a sleeper, and after Little's charity toss, O'Brien penetrated the guards for another wonder shot.

After a free throw by Peterson, Scherer sank another sleeper, and Swanson and O'Brien took charity points for Tech's second and final lead, 14-13. Turhune, DeKalb star of last year, finished up the half with three long shots, Swanson sinking another free, and Wagner bringing it up to 17-19 with a long sink.

DeKalb Rallies to 28-17

The Teachers rallied for nine quick points at the start of the second period, and threw the Techawks back, 28-17. Henriksen broke the ice for Tech with one, and O'Connell followed with two more points. Scherer worked in two longs while Swanson helped close the score to 25-31.

Price reentered the game at this point and began his consistent, although not spectacular, scoring. He nevertheless took command of the ball whenever it worked in under the home net. Three free throws were all that Tech could muster as the Teacher five continued to rule the globe in the home territory.

Tech was unfortunate to hit the DeKalb team when the latter was especially warm on baskets. Turhune, who had not been shooting well in past games, opened for the first time to sink his five field goals on his first five attempts.

BOX SCORE:

Armour 28		DeKalb 44	
	b f p		b f p
Scherer, f	4 1 2	Price, f	6 4 0
Lutz, f	0 0 0	Young, f	1 1 2
O'Brien, f	3 1 4	Davis, f	4 3 2
Brown, f	0 0 0	Nelson, f	0 0 0
Swanson, c	0 5 1	O. Peterson, c	1 1 1
Sher, c	0 0 0	Jorgeson, f	0 0 0
O'Connell, g	1 0 1	Little, g	0 0 1
Janick, g	0 0 1	Krumboltz, g	0 0 1
Weber, g	0 0 0	Quillon, g	0 0 4
Wagner, g	1 1 3	Stegman, g	0 0 0
Henriksen, g	0 1 3	R. Peterson, g	0 0 0
Hofman, f	0 1 0	Turhune, g	5 0 1
Receva	0 0 1		
	9 10 16		17 10 12

Fore! Golfers Swing Wild in Armour Gym

F-Fo-o-ore! Watch out for the Tech golfers! Those latent sportsmen who serve as public menaces number one and tear up the city greens in the summer, come out of hibernation before ground hog's day this year. What's more, they won't see their shadows; they'll be in the Armour gym.

A net which deadens the drives and pulls in the slices has been constructed for the team, professors, and students who care to use it. It is 20 feet deep, 10 wide, and 9 high. The apparatus has been made collapsible, not to interfere with other features in the Armour gym.

The net was constructed by a carpenter during the holidays, supervised and aided by Coach Sammy Bibb and Manager Jim Sheehan of the golf team. It will be used by the squad for their pre-golf-weather conditioning. Gym classes may even adapt the net for lessons in golf.

Armour Wrestlers Trim Lawrence With Five Pins, Time, for 28-5 Win

Winning six out of seven bouts, the Armour wrestlers felled the Lawrence college matmen 28-5 in Bartlett gymnasium Saturday afternoon. Five of the Tech wins were falls, and one was taken on time advantage.

Till, 118 pound Tech freshman, started things off by pinning his opponent in the short time of one minute fifty seconds. The fall followed an immediate time advantage for Till and was completed on a reverse nelson and a crotch hold. McDaniel, working hard, wrestled at 126 pounds, and after a long workout which went the full eight minutes, he won on a time advantage of three minutes and thirty-five seconds.

Captain Dunne, wrestling with more than usual confidence, had an advantage on his Appleton opponent in five seconds. Jim missed his first key lock, but had a second one in a few seconds which Pershbacker

couldn't loose, the fall taking two minutes, nineteen seconds. Hanna and Allen, wrestling without a great deal of experience, tumbled and tossed during which Hanna subjected Allen to stretcher, grapevine and figure four holds. A reverse nelson ended the bout with a fall for Hanna in five minutes and ten seconds.

Nigrelli met a strong 155 pound opponent in Lawrence's Isley. Taking the first advantage Nigrelli lost it on a head lock from which he wriggled, but couldn't loosen a wrist lock and surrendered a hard match for the visitors' only win. Maxout, at 165 pounds, just missed pinning O'Tonnell on a cradle hold, but a reverse nelson felled the Wisconsin visitor in only two minutes twenty seconds. Tullgren and Gerblock, in the 175 pound class, started their match at a furious pace, but Tullgren applied the old pressure brake, a head hold and a foot lock, and ended the match and meet with a beautiful stretcher grip in the short time of three minutes and twenty-five seconds.

Tankmen Include Two Trips in '38 Schedule

Armour's tank season opened officially last Friday night out at the Loyola pool, where the Techawk swimmers began a heavy week-end of three trips. Saturday night they were to race the North Central tankmen at Naperville, and yesterday their third foe, at South Side Junior's home aquarium.

Judging from their newly released schedule, the Techawk tanksters will travel a bit this season. They have an Indiana and a Wisconsin town hooked, with an additional meet on each trip in the offing.

The start of next semester will see the swimmers invading Indiana for a meet with De Pauw, February 5. They stage the Armour interclass meet on the 16th and then lay in waiting for the K.Y.F. squad from Kenosha on February 18.

After meets with South Side and Wright, Armour returns to Bartlett to meet De Pauw on March 11, and Loyola on the 14th. They move in to Kenosha for their final meet with the K.Y.F. squad on March 18.

Meets with Indianapolis Athletic Club and Kenyon are tentative and may be included in the respective trips to Indiana and Wisconsin.

Ray Dodge, high point man of last year, will captain the squad from his post in the 220 yard free. Vic Svagdis, the flying breast stroker, is also back in his lane again, and will continue to gather his customary five points. Last year he was outraced only once in the breast event, and was second high for Armour by two points.

Bob Winblad has turned over to swim the backstroke, due to a vacancy there, and judging from the Loyola meet, will do well there for Tech. Red Downing is a strong man in the 40 yard free, while Pettes and Anderson, freshmen tank stars, are expected to bolster the sprints and 220, respectively. Pettes is also a promising diver.

Swimming Schedule

- Jan. 14—Armour at Loyola.
- Jan. 15—Armour at North Central.
- Jan. 17—Armour at South Side.
- Feb. 5—Armour at De Pauw.
- Feb. 16—Interclass.
- Feb. 18—Kenosha at Armour.*
- Feb. 21—South Side at Armour.
- Mar. 2—Armour at Wright.
- Mar. 11—De Pauw at Armour.
- Mar. 14—Loyola at Armour.
- Mar. 18—Armour at Kenosha.

*All home meets are held at the University of Chicago, Bartlett pool.

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