Z-140

Breakage of Cross Head Causes Piston To Smash Engine Head

Out of Service Two Weeks; Professor, Nine Students, Repairs Cost \$1,000

every one on the campus was stirred into action as a result of an accident | trical engineering students so honin the engine room. The large steam engine located in the engine room, is for outstanding scholarship and accoupled to a large 20 kilowatt gen- tivity in their department: erator which furnishes light and powthat weighs close to five tons and Faulkner. to send it out through the head.

Interview Engineer

An interview with Anthony Mollers, night engineer, gave the following story:

"I had just left the engine room and gone into the boiler room when I heard a bang! I happened to be talking with Professor Libby at the time and with the clanking noise every fraction of a second, I knew the cylinder on the large generator had burst. Well, the steam was blowing in our direction so that we couldn't get back into the engine room. About the time I had started to go outside and around from the other door, Claude Blankenship managed to come in from the north entrance of the engine room and close the throttle valve which gradually stopped the engine. Naturally all the lights went out and the room was clouded due to the escaping steam. I immediately told the fireman to keep the water pumps at full speed so that the boilers would not be damaged at the sudden decrease in load on the steam lines.

Steam at 120 Pounds Pressure

"We then looked at the damage making sure the small machine was not harmed due to the accident and then got it started so we could have some lights. The steam was at a pressure of about 120 pounds pressure and when that comes out of a ten inch main, it has plenty of force. Just for example, take John's cabinet; it was blown against a post; and the cabinet is fully thirty feet from the engine. That's why we couldn't get back into the room."

When the machine was being dissembled the following day, this reporter obtained additional facts from John Allen, the chief engineer. The cylinder head weighed about 300 pounds, was 1 % inches thick and was bolted in place by 16-one inch bolts. The steam chest was damaged but can be welded. The cast iron cross head will be replaced by cast steel which will increase the strength of the moving parts. Damages are estimated at about \$1,000 causing the machine to | begin December 15. The subways, be out of service for about two which are expected to bring Chicago's Election Committee weeks. "We're all glad," said John | antiquated transportation system up Allen, "that no one was injured in to date, will cost 40 million dollars the incident. A machine can all and will be financed partly with an ways be replaced, but not a human 18 million dollar grant from the Fedbody."

W.S.E. Smoker for Nov. 10 at Pi Kaps

The W. S. E. Smoker committee has announced that the fall smoker will be held next Thursday night, Nov. 10, at the Pi Kappa Phi fraternity house. Festivities are to start at 8:30 p.m. Members will take part in a Monte Carlo party and view some very excellent motion pictures.

There is one pre-requisite, however, before attendance will be allowed. Membership dues must be paid. Seniors, juniors, and particularly sophomores who have not paid their fee had better do so lest they miss an enjoyable evening. As a particularly pleasing innovation the committee has promised a very tasty repast for those who are able to attend.

The W. S. E. Smoker is an annual affair at Armour. It is invariably held in the fall of the year and is traditionally conducted by a committee selected from the junior class.

The pledging of ten men to Eta Last Wednesday, at 3:55 p.m. Kappa Nu took place at the A.I.E.E. smoker Wednesday evening. The elecored are the following men chosen

Seniors: Lawrence Strocchia, Verer for the school. The cross-head, non Terp, Gerald Anderson, Edward made of cast iron, broke allowing the A. Chavalley, and Edward Marik. eylinder to go right through the head | Juniors: John Hartman, Edward Pauof the engine. Having a flywheel | laitis, J. Dan Shaver, and Alfred Associate Professor travelling at 200 revolutions per min- | Charles A. Nash was chosen for ute, the steam had sufficient force associate membership in the honorary fraternity.

Seniors To Hold Dance In Union Bldg. Dec. 10

Meeting at noon last Friday, the senior social committee set Decem-Pledged to Eta Kappa Nu in the remodeled student building.

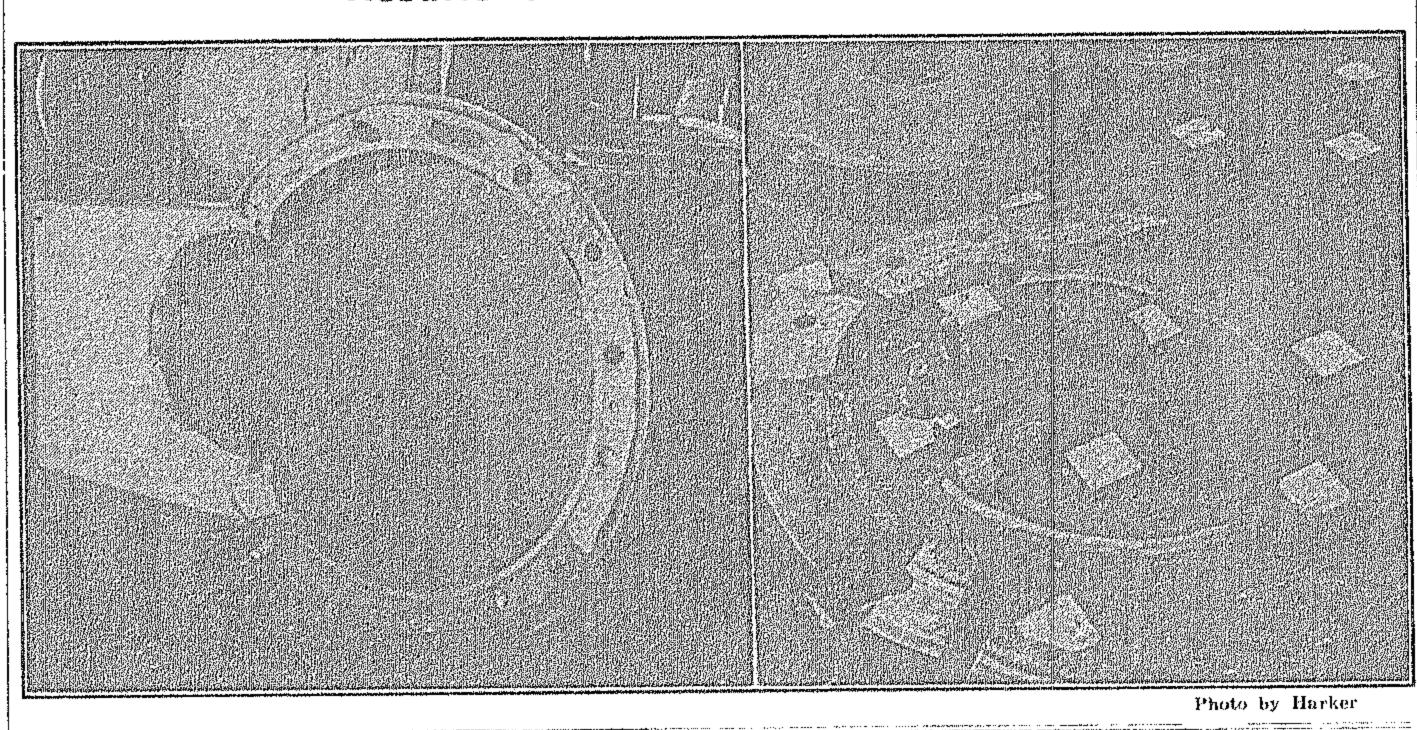
> after the Thanksgiving holidays as those already installed. the entire school."

New Steel Lockers Now On Way; Will Be Placed in Engine Room Temporarily

One hundred and five new lockers ber 10 as the tentative date for the are soon to be added to those in the senior dance. If the Union Building basement of the Main Building, acis completed and furnished by that | cording to an announcement made date, the dance will be the first held by Mr. George Allison, treasurer of the Institute. It is expected that the As is the custom at Armour, the order will be delivered in about two senior class will hold the first class weeks. The lockers of steel construcdance. Bids will be on sale shortly tion, will be of a type similar to

the committee is, at present, design- | Temporarily the lockers will be ing the style of bid. "If we can hold placed in the engine room. Present our dance in the Union Building," plans are to clear a space for them said Anderson, "we can guarantee along the west wall in back of the everyone a good time. We'll have machinery rather than to have them a real celebration, since it would be along the aisle where they would be the first dance held in the new build- in the way. The new lockers will ing," continued Anderson, "so we're be for the use of those juniors and hoping to have a good turn-out from seniors who do not at present have

Results of Boiler Room Incident



Appoint P. Harrington, Armour Alumnus, Commissioner of Chicago Subway Project

Armour Tech, class of 1906, was appointed commissioner of subways and traction by Mayor Kelly last Thursday. Harrington has been traction engineer for the city of Chicago for the last three years.

said after his appointment as subway "Czar" had been unanimously approved by the Chicago council. "It is a great honor to be in charge, I will do everything possible to bring honor to the mayor and the council in this undertaking."

Work To Begin in December

Harrington's big and important task for the next two years will be the building of two rapid transit subways on which work is scheduled to men. eral government.

in 1916, is 52 years old. For 29 years | dent Association. he was employed in the engineering department of the Sanitary district, that the candidate (who can petition is felt by the faculty and the officers spending the last two years (1933 to for only one office) must submit a to be foolhardy. In accordance with 1935) as chief engineer. He was re- petition to the election committee be- this, the plan has been submitted sponsible for the preparation of de- fore noon, Friday, November 18, that the W.S.E., which is not a purely sign, drawing of contracts, construc- bearing the signatures of 35 members | civil engineering society, became the tion and operation of more than 100 of the class of 1942. million dollars worth of plants and works.

Plan For Extension

drew as traction engineer. His new the final election. subway department will not only build the initial system of subways, and supervise the use of them by the Klein.

Philip Harrington, a graduate of company operating them. An ordinance passed last week amends the powers of public works to place all of the authority for subway work in Five the hands of the new department.

The ordinance which creates the new position of commissioner of sub-"Since I was a boy I have visioned ways makes no statement as to the a subway for Chicago," Harrington | length of term in office, but authori- | neering fraternity, pledged one chaptative sources have stated that a state ter honorary member and four chapstatue governs in such cases, and limits the term to two years.

An article on the Chicago subway system, authored by Mr. Harrington, appears as a "nation wide scoop" in the issue of the Armour Engineer and Alumnus issued this week. The article was secured by the editors previous to last week's events and promises to be of foremost importance to the technical readers as well as lay-

Names Five Officers For Freshman Class

Distinctively a Chicago citizen, Mr. | porary freshman committee indicated | W.S.E. selected Mr. A. Hammond to Harrington received his primary edu-that five offices will be filled by the address them. The problem which is gineers, will explain how Polaroid cation in Chicago public schools, spent coming elections. In addition to elec- confronting the Armour chapter of 'combs' the helter-skelter vibrations four years on the Armour campus ting the customary president, vice the W.S.E. is that of the installation where he received the degree of Elec- president, and combined secretary- of an Armour chapter of the Ameritrical Engineer, and completed a treasurer, a social chairman will be can Society of Civil Engineers. For legal course at Kent College of Law. selected as well as a representative some time there has been consider-He was admitted to the Illinois Bar to the board of the Armour Tech Stu- able discussion of the relative merits of energy.

formation will be supplied by the

Civils Submit Plan To Create Unified Engineering Group

Men Pledged Chi Epsilon

ter actives to their membership at the ciety of Engineers last Friday. Dr. Linton E. Grinter, head of the department of civil engineering and dean of the graduate division was the chapter honorary member to be pledged. To the active chapter were pledged D. J. Saigh '39, D. M. Way '39, G. P. Hanna '40, and F. A. Opila '40. These men were pledged because of the high standard they set in scholarship, character, sociability and practicability.

In an attempt to solve their curof both the A.S.C.E. and the W.S.E. Nomination procedure requires To do away with the W.S.E. entirely parent society. In this organization A primary and a final election are all the students would be entitled to planned, each to be conducted ac- membership with the governing body cording to the rules of the Australian | composed of all the officers of the Although Mr. Harrington will ballot. The three candidates receiving various departmental societies. carry greatly increased responsibility | the most votes for each office in the | Through this medium, the W.S.E. in his new position, he will receive primary election will compete in the could obtain speakers and events the same salary-\$20,000-which he final vote. A plurality will decide in which could not be had to address merely the small groups which are Petition forms and further in- found in the departmental societies. Mr. Hammond, being a past presi-

but it will prepare plans for the ex- temporary committee, composed of dent of both societies, was deemed tension of tubes. It will also main- Earl Huxhold, Bob Tatge, Ted Krup- the logical man to advise the students. tain the subways after they are built ruik, Warren Underight, and Fred He advised the members to enter into (Continued on page two)

Honor World War Heroes At Armistice Day Mass Meeting

J. Speyer Takes Sketching Prize

Chapter Edfou of Scarab fraternity held its annual sketch competition last week. James Speyer was the nonmember to win the one year subscription to Forum, architectural from previous years, in that the asmagazine.

His winning sketch was a water color of a scene of the Chicago River. The jury was composed of Professors van der Rohe, Kreihbel, Rodgers, and Mell. A total of sixteen sketches were chosen, from the competition of 55, to represent Armour in the national competition sponsored by the prior to entering field. The whole afchapters of Scarab. The competition fair, while not intended as a stiff, will be held and judged in Cincin- formal occasion is to be a solemn nati, Ohio, on November 21, 1938.

man, was selected, according to A. M. co-ops, institute employees, faculty Richardson, president of Scarab, as | members, and members of the redelegate to the Annual National Con- | search foundation are required to atvention of Scarab fraternity to be | tend. held in Cincinnati, Nov. 21. Accompanying Danforth will be Ambrose group are to assemble at designated Richardson, John Rea, and Fred H. places, under the supervision of stu-Prather.

"Polaroid" Is A.S.M.E. Topic This Afternoon

ly invented "Polaroid," a sheet of War. transparent material with an amazing power over light and promising "an industrial and scientific revolution with its more than 800 possible applications." This evening, at 7:30 p.m. George W. Wheelwright, III, partner in the Land-Wheelwright Laboratories, will demonstrate and Chi Epsilon, honorary civil engi- lecture on Polaroid to a Chicago audience under the auspices of the American Society of Mechanical Engineers in the second floor auditorium of the Engineers Building, 205 West Wackregular meeting of the Western So-ler Drive. The same lecture and demonstration will be shown before the student A.S.M.E. in Science Hall this afternoon at 3 o'clock.

Three-dimensional Color Movies

Demonstrations of a few of Polaroid's many uses will include illumination, completely free from glaring reflections, three-dimensional motion pictures in full color, the creation of color in colorless materials, and the inspection of glass for annealing flaws and imperfections. Mr. Wheelwright, who will be introduced by John M. Magos of Crane & Company, and member of the Research Com-A release last week from the tem- rent problem, the officers of the mittee of the Chicago Chapter of the American Society of Mechanical En of ordinary light into a single plane and thus provides a harness for light that allows mankind to make much more extensive use of this vital form

Roesch in Charge

Daniel Roesch, Professor of Automotive Engineering, and member of the A.S.M.E., in charge of local arrangements for the lecture, advises that Polaroid has been considered by scientists and optical authorities as one of the great contributions to artificial illumination since Edison's incandescent lamp. Besides being helpful in conserving vision for the in noise elimination. At present innormal person, thousands of ocularly struments similar to this are finding deficient people who have been hand- | use as applause meters in the various icapped in reading under glare conditions of illumination will have access to comfortable reading of news- | breaks up a sound into its component papers and magazines with the ad- frequencies and the amount of each vent of Polaroid.

Lecturer Wheelwright was a professor of physics at Harvard Uni-(Continued on page three)

Brass Band Leads Way To Ogden Field

Following the custom which has been established at Armour for twenty years, a student assembly will be held next Friday morning on Ogden field to commemorate Armistice Day. This year the plans for the ceremony have been changed sembly is to be an all Armour affair. No outside speakers are to be in attendance, since the address is to be given by President H. T. Heald.

Expect All To Attend

Plans for the assembly include a detailed explanation of how the various classes are to arrange themselves dignified ceremony. All members of George E. Danforth, a third year | the student body, graduate students,

Separate divisions of the entire dent marshals. At 10:35, after the second hour class, the band will start playing and the various groups will march onto the field through the south gate. From there the ranks, double file, will proceed along the west side of the field, turn east and arrange themselves in rows in the east and west direction. All will then turn and face to the north. When 11 o'clock comes the entire body will face to the east and remain at attention, in silence, for a period of one Culminating 250 years of scientific | minute. This cessation of activity is research by the world's leading the annual memorial which all Amerphysicists to provide a directional icans observe in honor of those men control of light waves, Edwin H. who bore arms overseas and those Land, young Boston scientist, recent- who gave their lives in the World

Heald To Give Address

At the north end of the field there will be a raised platform upon which the speakers will stand. A public address system is to be installed for the convenience of speakers and audience. President Heald will start his address at 10:55 and will continue until shortly after 11 o'clock. The intermission will occur during his ad-

Last week the News carried the announcement that the assembly is to be held under any condition of weather which may prevail. If the (Continued on page four)

Foundation Officials Add New Equipment To Acoustics Dept.

Recently the Research Foundation added two new pieces of equipment to its ever increasing collection of unusual apparatus. The particular items are a sound level meter and a wave analyzer, both of which will be used by the acoustics and vibrations division of the Research Foundation under the supervision of Dr. H. A. Leedy.

The sound level meter is a device to measure the magnitude of sounds. It is a very sensitive piece of apparatus covering a range of energies of 1 to 1000 billion. One of the most valuable features of the instrument is that it will cover sounds ranging from those on a quiet country road at night to those produced by a pneumatic hammer with about the same response as the human ear, making the sound level meter an ideal tool for problems radio stations and theaters.

The wave analyzer is a device that frequency present in the sound. One of its main uses is in the evaluation of tone qualities, such as the tone of a fine voice, radio, and violin.

Armour Tech News

Student Publication of the ARMOUR INSTITUTE OF TECHNOLOGY 3300 Federal St. CHICAGO, ILLINOIS

Published Weekly During the College Year 1938 Member

Pssocialed Collegiate Press

National Advertising Service, Inc. College Publishers Representative 420 MADISON AVE. NEW YORK, N. Y. CHICAGO ' BOSTON ' LOS ANGELES - SAN FRANCISCO

"Entered as second class matter December 8, 1937, at the post office at Chicago. Illinois, under the Act of March 3, 1879."

\$2.00 Per Year

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Vol. XXII.

November 8, 1938

R. Abrahamson, R. Besancon,

Armistice Day

At the eleventh hour of the eleventh day of the eleventh month of the year 1918, all hostile action ceased in the greatest of all wars—the World War. It was the first Armistice Day. Men who had been trying to kill each other now came boldly out of their trenches. Enemies for four long years became friends and peace instead of war, reigned over the battle-scarred fields of France.

In this country wild rejoicing broke out in every city, town, and village. The whole country was swept with a tide of happiness. The strain of the war was over. Bells rang and rang; everyone was Single Copies, 10 Cents Each | happy. No more war. No more hatred. People everywhere resolved and declared that never again should war darken the souls of men and cast its shadow over the world.

At the dedication of the tomb to the "Unknown Soldier" in the National Cemetery at Arlington, Virginia, President Warren G. Harding said, "This must never happen again."

Each year, all Armour attends the Armistice assembly. It is the only tribute we can pay to circus, and only last week I let you those men who lost their lives in a fight for democ- go out and see the eclipse of the racy. The assembly this year will be held in Ogden field in the form of a mass-meeting. All brass galety? instruments of the orchestra have been formed into a band to furnish stirring marches for the event. The ceremony, which includes the entire student body and staff, should be very impressive. Plans have been arranged far in advance to insure an laboratory on whiskey.Roger Smith orderly entrance to the field. Assist the school officials by using the directions published with No. 8 this issue.

Fraternity Notes

By EDWARD CHEVALLEY All fraternity notes must be received by the fraternity editor before 5 P.M. Thursday in order to appear in the next issue.

TRIANGLE

Donald C. Rogge, president of the house, now has a new hobby-and it has the brothers worried. It seems that Don must have taken a ride in a boat while down in Evansville, Ind., last summer, for now he is constructing his own Queen Mary in the basement of the house.

Whether he will be able to launch it through the walls is a problem that Don doesn't seem to be worrying about. The 14 foot craft will start some swell fires this winter, any way.

Triangle extends its congratulations to Brother Howard Coyle who was pledged to Tau Beta Pi a week ago last Friday.

PHI PI PHI

The Halloween Dance, sponsored by the pledge class, was a pronounced success and Pledge Captain Ted Growak can be proud of his pledge brothers for their fine cooperation on that project.

The chapter was proud to have as guests of the evening, Prof. and Mrs. Freeman and we trust that they enjoyed being with us as much as we enjoyed having them.

Our new R. C. A. Victor radiophonograph has been working overtime and several heated discussions have been waged over the rendition of a certain selection entitled, Old Man Mose.

The athletic boys of the house have been working out with the new set of barbells, and it is reported from a reputable source that Clay De Ment, can lift anything in the house but the furnace, and he can balance the budget with his right hand.

DELTA TAU DELTA

Comes Tuesday and our long awaited contest with Rho Delta Rho. The team is in top-notch shape and expects to add the Rho Delts to its purge list. An 18-0 victory is predicted for the purple avalanche. Ransel having resigned it behooved the Delts to elect a new treasurer. When installed as the future Dollar Grabber.

Our Pledge Formal is to be held; at the House Nov. 19. Put on your top hat, white tie, dust off those tails your best table manners, for the Mothers' Club is to supply the food in the way of a buffet supper.

THETA XI

We are happy to have Brother Graf back with us after having been absent for nearly two weeks due to an injury he received in a touchball game two weeks ago.

Brother Giovan is getting an early start with the ping pong players this year. A number of the boys are very good players and will make an excellent team. Brother Hruda insists that he wins his games by the use of a little psychology. His opponents feel that his freak shots seem to be quite regular, or maybe its because of his long arms.

PHI KAPPA SIGMA

Congratulations to the Rho Delts for their handling of the pigskin and subsequent win, with sportsmanship as the keynote. May the best team win the finals.

Club with their usual aplomb gave a ern portion of the country. For the grand card and bunco party. Thank first part of the week, he was in Bosyou, Mothers' Club and those Dads ton, Mass. on business concerning the that were prominently active. The Institute, and then during the latter prizes were well chosen and were re- | part he represented Armour at Coopceived with a great deal of pleasure. er Union College for an installation The party wasn't restricted to grown- of its new officials. Cooper Union ups as was noted by the conspicious is perhaps the oldest technical school attendance of brothers and pledges with their better half.

Our well rounded off pledge class has quickly adopted themselves to fraternity house functions and are striving vigorously to attain the pledge award. This award will be presented to the pledge having the best all around record of pledgeship including scholarships, attitude, cooperation, etc. The award is a fraternity crest ring.

PI KAPPA PHI

The Mothers' Club card party held last Saturday was a huge success due to an attendance of 48. Our pledge dance is scheduled for Friday, Nov. 18 and the pledges have threatened to outdo our regular social committee, but we claim it can't be done.

Our first intra house touchball game ended in a scoreless tie, both teams are planning how to win in the near future.

MAY CHANGE W.S.E. PLAN-

(Continued from page one)

the A.S.C.E. and make the W.S.E. the parent society as outlined in the the nominations were over and the previous plan. "If a charter is devotes counted William Scherer was; sired, the following procedure must be followed," said Mr. Hammond of the A.S.C.E. He then went on to describe the mechanics of obtaining a

In answer to a question from Dr. and let's swing it. But don't forget Grinter, Mr. Hammond said that there was nothing in the by-laws of either society which would prohibit a plan as he understood it.

Many Armourites Attended Chicago Teachers College Friday Afternoon (3) Social

Last Friday afternoon, 119 Armourites accepted the invitation of the Chicago Teachers College. Arriving at 3:30 in the afternoon the two hour period of dancing passed quickly with the Techawks doing their share in the robber's dances.

Every other Friday, the college has Georgie Porgie, Pumpkin Pie a social. Because of the basketball and choir practice at the same time, partners were scarce. Tickets were sent to the Registrar and students interested were asked to call there for them.

Pres. Heald Visits Cooper Union on Recent Trip East

During the last week President H. T. Heald has been doing a consider-Last Saturday night the Mothers' able amount of traveling in the eastin the entire country.

Since Mr. Heald is to make the address at the Friday Armistice Day ceremonies, he will be returning to his desk early this week.

Equipment and Furnishings Being Delivered Daily for Remodeled Student Union

Work on the new Union Building has been progressing rapidly during the last week. Students have all seen the number of trucks which have pulled up and discharged pieces of new equipment, but work on the inside has also been gaining headway.

Scaffolding has been removed from the new assembly hall, the decorating and lighting is practically complete and the new wooden floor is ready for finishing. The new movable seats have yet to be delivered, but they will be ready in a few days.

It is expected that the lunch room equipment will be removed from the gym during the Thanksgiving holidays and the Union will then be ready for one of its most important functions—food. All of the new equipment for the fountain, new gas ranges, and new dishwashing equipment have been installed. The new pedestal type tables have been delivered and new lighting fixtures are being put in place.

Book cases for the book store have been set up and are ready to be fastened in place. All of the new hall doors have been hooked to their frames and numerous panes of new glass have been puttyed in windows.

The Slipstick

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

Step in closer folks and also you Armour engineers I'd like to show this all new patented self servicing and automatic mechanism which we are the quotient to the colog. The answer 'ROOM SERVICE' and "MARIE is guaranteed to be right. If the an- ANTOINETTE" starring Norma professor quiz style. More music, swer isn't right you can sue me. So | Shearer and Tyrone Power is well less talking.

Beside the crowded dance floor An ugly coed stood And stood, and stood, and stood,

And stood, and stood, and stood.

Armour Soph: Pa, may I have a quarter to go to the circus with? Dad: What? A quarter to see the moon! Young man, do you want your life to be one perpetual round of

Indicating that this column has the engineer's best interest at heart we are giving you the following technical report received from the research

가 하 바

Connect 20,000 volts across a pint 1) If the current jumps it, the product is poor.

2) If the current causes a precipitation of lye, tin, arsenic, iron, slag, and alumni, the whiskey is fair.

If the whiskey chases the current back to the generator, you've got good whiskey.

"Johnnie, did you want to leave the

"Say, teacher, you don't think I'm standing here hitch-hikin' do you?"

Chased the girls and made them Cry, of course.

Our Household hint for this week will be a recipe on how to prepare watermelon squash. Gently pick up the watermelon and hold over head. Now let go. Squash!

I was boasting to B.R.S. that on a clear night a few weeks ago I could see the lights of Gary from the Chicago shoreline. "That's nuthin'," he retorted, "on a clear night last week

The Town's Best

By BERNARD STERNFELD

teristics and subtract the anitlog from Marx Brothers aggregation in that's refreshing and new. worth your time and coin of the realm. Other hits including "ALEX- finally hit their stride. Practice ses-ANDER'S RAGTIME BAND," "BOY MEETS GIRL," and "CAREFREE" are still showing at the smaller show spots. They're all \$250,000 Movie Quiz Contest numbers. Remember to send me my 10%.

> IF YOU ARE READING Ferdinand Lundberg's America's Sixty Families is a choice number. A flock of our American society uppercrusters take quite a bit of punishment in this, what with commoner Lundberg revealing the status of their income, the method in which schmiers, the '40 chems are on the said income was obtained, and the curious but interesting ways in which | to crow loud and long about the those gorgeous coarse notes are spent. It's a big book, jammed with names my predictions have clicked! and statistics, but an easily read book. A good bet, that's America's Sixty Families.

> AMUSEMENTS ODDS AND ENDS: Victor hits the deck this week with two naturals. For six bits, | the Delts, IF the Rothenberg-Epstein on No. 26060, you get a couple of swing classics as dished up by Benny Goodman & Co. "Margie" and "Russian Lullaby" are the tunes.

IN THE PICTURE DEPT: Might | Then Ginger Rogers turns out a toe giving away absolutely free with every as well give the play to movie houses tickler on Bluebird B-7891. It's "The Slipstick Column. This little handy outside the Loop this week. There Yam' and "I Used to Be Color device when attached to your slide- are just too many K. O. pics circulat- Blind," all for seven nickels. Recrule will locate the decimal point in ing to pass up. F'instance, a nifty ommended, but yes. . . . Best of the your answer. Simply add up the parley is currently running at the new bands, Dick Berry's ork playing mantissas and divide by the charac- | Marbro and Uptown. The screwball | the eastern circuit. They've a style

. . . Overdone is the music classes,

. . . Glee Club and Orchestra have sions show plenty of class. First showing is scheduled for an early December date.

IN THE SPORTS WORLD: As predicted here in the Sept. 19 issue, ol' Seabiscuit finally came through last Tuesday to cop that match race and 15 grand from War Admiral. And predicted in the Oct. 4 number was the early foldup of the overrated junior chem footballers in the interclass tournament. After absorbing a thorough beating from the senior way out. . . . I've got a perfect right above. It's the first time this season

...Only bigtime football game scheduled for a showing in the Chicago area next Saturday is the De Paul-Catholic U. fracas.

... The Rho Delts to win the fraternity touchball championship from combo isn't broken up by injuries in interclass ball games. Anyway, the Rho Delts by I point. ... The wailing may commence.

I could see all the way to the moon from the Chicago shoreline."

Prof: What is a skeleton? Stude: A stack of bones with all the people scraped off.

DEAR DAD:

I hope you are well. I hope mother is well.

I hope sister is well. I hope John is well.

I wish you were here. I wish mother was here.

I wish sister was here.

I wish John was here. I wish you would send

me some money.

Jim.

We are told that the last word in airplanes is "Jump."

"Did you feel something cold run

up and down your back when you proposed to Eleanor?" "Naw, her old man held the gun

steady."

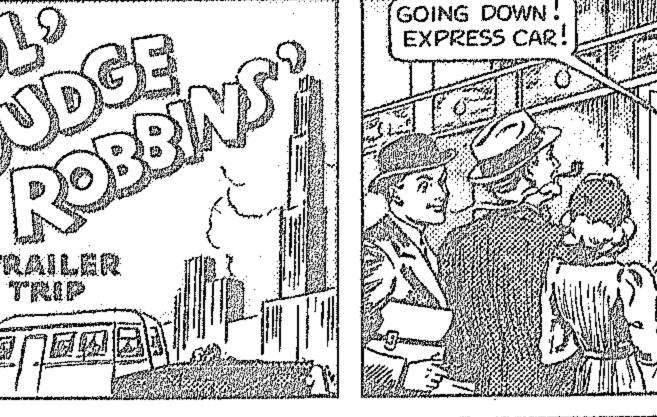
Drip: Do you play on the piano? Drop: No. I used to, but my mother made me stop.

Drip: How's that? Drop: She was afraid I might fall

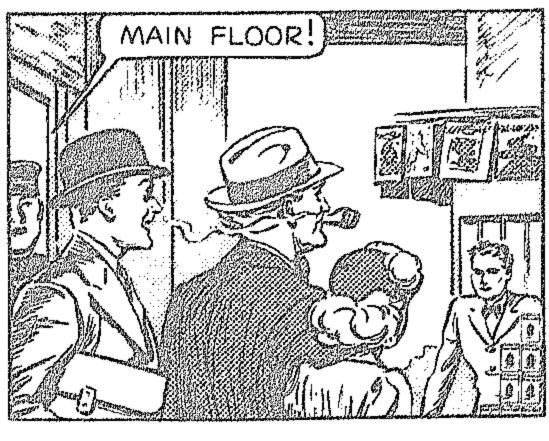
That's all folks.

HI YO SILVER.

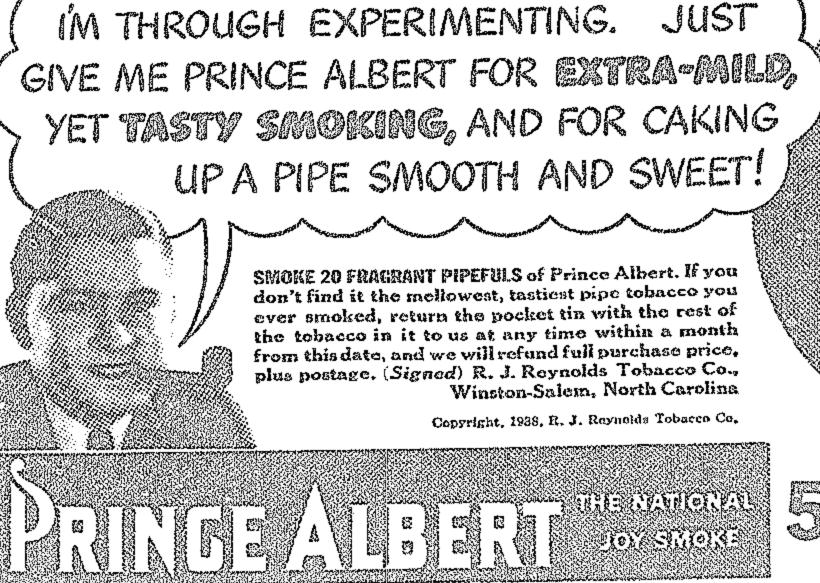






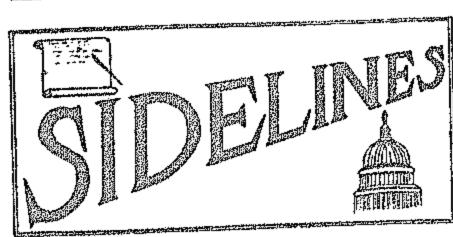








pipefuls of fragrant tobacco in every 2-oz. tin of Prince Albert



By EUGENE WORCESTER

"HISTORY REPEATS itself." So goes the saying, and there is considerable evidence to support it. glance into the Orient presents a situation remarkably like that in Eastern Europe over a century ago. Napoleon Bonaparte, Europe's Alexander, still unsatisfied with possession of the continental capitals, enviously looked on Russia's broad plains and seemingly endless forests. But his avidness for indisputable supremacy surpassed his means and ability to achieve it. His huge army steamrollered across the White Russian borders in farmer fashion. But progress was slow for lack of roads. His army, miles from a base, had to live on the fat of the land. Summer passed and autumn with it, and still his objective of Moscow was unattained. With the arrival of winter Napoleon was left with burned towns, barren fields and the Siberian blasts. Even before the advancing French, the retreating Russians destroyed all that might offer food or supply to the invaders. History records that the little Corsican found a conflagrated Moscow, and returned to Paris disconsolate and defeated.

THE CHINESE are using tactics against their Japanese invaders identical with those practiced by their Russian neighbors years ago. Hankow, the latest Nipponese seizure, was a prosperous city a few short weeks ago. The Chinese in Hankow, realizing that the city would fall prey to the Emperor's sons, cooperated with the army and destroyed or removed everything of value in the metropolis. Factories and industrial plants were dynamited. Power stations and oil stores were ruined and burned. The Chinese have determined that their invaders shall not be rewarded. Japanese capital stands small opportunity to yield return | as: from a mass of smoldering ruins and a boycotting populace.

JUST WHAT Japan will gain from her exploits is questionable. She has, to date, buried upwards of 30,000 of her sons. She is finding war and the maintenance of an army very expensive. Chinese guerrilla warfare tactics are not helpful to healthy military morale in Japanese ranks. She is decidedly unpopular with the people of the world, although her stock is quoted considerably higher with her Fascist colleagues. History has consistently shown that no one has ever conquered China, but that her would-be conquerors have all been absorbed. Chinese culture, centuries old, and based on principles sound and extremely simple, has in the past resisted and defended itself against the pressure of an unhappy, aggressive, and profit-madworld. In spite of "the schemes of mice" and a few men in Tokyo, Rome, and Berlin, she will continue in her culture when these mice are dead and forgotten.

A London experimentalist has developed, quite recently, a method for photographing the fragrance of a lily or the intense odor of camphor. It was well he stayed from Jersey City, or his negatives would spoil with the present stench of her municipal government. Frank Hague, whose present term expires in 1941, has been her honorable mayor since 1917. He has, in the 21 years of his office, made Jersey City the country's outings for others than Hague's party they disturb the peace. Hague's privately financed mobs of ruffians have broken up previous opposition party meetings, and brought on the alleged peace disturbance. Hague proclaims a doctrine of Jersey City for industry (and, it might be added, for Hague). When a city official resand a year, and then buys an estate, fascist empire of Jersey City by around him.

Planetarium Math Show of Interest

Sophomores who have trouble solving problems in calculus, and students who appreciate clever handicraft will profit by a visit to the Fall Mathematics Exhibit at the Adler Planetarium. Morton Junior college and the Gary Public schools are sponsoring this exhibit.

One model made by Morton Junior college, is in the form of a diorama illustrating the speed of separation of a man walking over a bridge and a boat passing beneath.

A second set of models illustrates the meaning of each step in evaluating a triple integral, used to find volumes of solids. This set shows unusually clever workmanship. Another set of models consists of solids suspended in midair, while back of them are two dimensional drawings of the solids with a complete algebraic solution for finding their volume.

There are models which illustrate the problem of determining the number of stories a skyscraper should contain to yield maximum income.

Other models illustrate hyperboloid gears, select the path of a ditch dug for minimum expense through ground of varying degrees of hardness, find tect the operator and eliminate the the maximum length of a thin rod passing through two corridors at right angles to each other.

Announce Complete Cast for Players in Latest Production

Casting has been completed for the first of the present season's plays, "Journey's End," to be produced by the Armour Players. The rehearsals are being held in the English rooms on the third floor of the Physics Building. At the present time, the cast is finishing the first act.

The cast has been tentatively set

£013 t
Osborne
Stanhope
Raleigh R. U. Rayninhus
Hibbert
Mason T. Hunter
Hardy
Trotter L. Epstein
ColonelA. Hansen
Sergeant MajorS. S. Silverman
Prisoner

Journey's End, a 3 act play, is well known to the students of Armour as it is required reading in the present freshman English. It will be presented on or about Jan. 5.

Through the effort and leadership of Mr. Christophersen, the Armour the night school students. By this means, a large membership has been obtained as well as many experienced men. The members are di vided into groups, by choice, for the handling of properties, costumes, pub licity and stage management.

Many plays of interest to the student body are being considered for production during the winter months.

those interested in keeping America a democracy.

THE AMERICAN Legion recently made the discovery that Madame Perkins, Secretary of Labor, is a red. The Tribune has further scooped the Dies Committee reports that Roosevelt, the New Dealers and all labor standing example of undemocratic chiefs are radicals and communists. government. Opposition has been In reply it might be said that were quelled (but not eliminated as yet) | this true, our United States would by refusal for free expression of be a communistic government. It is speech or press. Court procedures not, by a long shot. The harshest are mere formalities. Public meet-| critics of the administration, the industrialists, are ungratefully biting are forbidden on the ground that the hand that feeds them. When the banks and industrialists were sick in 1933, Roosevelt came to their aid. Largely due to his policy they have regained health and now they turn from him. With due reserve, it can be said the country was very close to revolution in 1932. Twelve million unemployed people is a dangerceives a nominal salary of ten thou- ous element in a country rich in re-| sources, but handicapped with self- | kinds of engineering also. supports a coterie of satellitic hench- ish vested interests. Roosevelt is men (or better, a private little trying hard to solder up the leaky army), and permits and causes con- pail of American capitalism, but it tinued rank denials of the funda- is a difficult task when his support mentals of the Bill of Rights, it looks for ephemeral fame instead of would be well that outside pressure using foresight for a planned future. were brought to bear on his little Little wonder the pail is leaking all

Discussion of the Uses of X-Rays is Topic for A.I.E.E.

Armour's branch of the A.I.E.E. presented Mr. H. T. Trenary of General Electric on "Industrial Uses of X-Ray Equipment" in the electrical lecture room last Friday morning.

Roentgen in 1892 discovered these hitherto unknown x-rays that could penetrate wood and paper. In 1930 x-ray testing of boiler was officially required by the navy. Later it was required in the inspection by the American Petroleum Industry of its boilers. At the present time the X-Ray equipment has been developed to penetrate steel plate five inches in thickness. For thickness greater than five inches, radium is used as the penetrating medium.

The ability of x-rays to penetrate is proportional to the density of the material. Since platinum is most dense, it should be used as protection from x-rays, however, the cost is so tremendous as to make it prohibitive. Schematic diagrams showing the use of x-ray equipment was shown. Recent developments include immersion of the x-ray tube to pronecessity of correction for humidity and altitude changes. Any small difference in density is immediately recorded on a permanent record. This property is valuable in determining correct procedure in metal casting, since if there are no imperfections the pictures will be shown without

The x-ray is the only method of determining quality of production without destroying the piece. In this way the fruit growers were able to save \$5,000,000 by inspecting the orange crop which was partially spoiled by a sudden cold snap. The equipment was able to inspect 17,000-20,000 oranges per hour rejecting all lany unchanged lead. The finely unfit fruit.

sonal experiences in the field of electrical engineering.

Chemicals Witness Motion Picture on 'Eagle White Lead'

Last Friday morning, the members of the A.I.Ch.E. witnessed a motion picture, "The Story of White Lead," describing the manner in which white lead is produced commercially. The movies were shown by Mr. R. Flood of the Eagle-Pitcher Lead Co.

Methods of mining the lead in the form of galena, a mixture of lead and lead sulphide, were first shown. The ore is then crushed and passed over a series of jigs whose purpose is to remove all stones which are present in the mined ore. The ore is passed to the furnaces, where the lead is purified and cast in bars for storage and transportation.

Before it is used in the manufacture of white lead, the lead is first cast in the form of thin metal disks, called buckles. The actual change from lead to white lead takes place in long corroding houses. Tanbark, the bark of oak trees, is spread over the floor, and pots, filled to one third of their capacity with a 3 % solution of acetic acid, are placed on top of the tanbark. The lead buckles are then inserted into the pots so as to be directly above the vapor of the solution. A flooring, with openings

This, the Old Dutch process is complete in about ninety days when 70% of the lead has been corroded.

The pots are removed and the white lead, formed in the operation, is crushed and screened to remove ground white lead is then suspended Last Wednesday evening 72 A.I - in water and drained off into settling E.E. members enjoyed their annual tanks. Water is drained off, and the smoker held in Science Hall and the settled lead is mixed with pure linsecond floor electrical laboratory, seed oil and a small amount of tur-L. Strocchia took honors in the pentine. This mixture is further games, while Dr. Reed gave an inter- ground and then put up into conesting talk concerning his own per- tainers. The movie was concluded with a short description of the uses and values of the finished product.

New Department of Educational Testing Determining Best Combine of Frosh Tests

a new department of Educational Tests and Measurements, so as to | tests. centralize all the purely educational players were organized early in the | work in one department. New offices | semester. This year the membership | for the testing office and workrooms has been opened to all men including | are located on the third floor of the Physics Building.

> There was a change in two of the freshman orientation tests this year. The psychological examination was changed to adapt it better to machine one has in a particular occupation. part, containing word completion, artificial language and opposites, is heavily loaded in verbal traits such as verbal fluency and verbal deduction. This part is called I. As soon as the February grades are in, investigations will be started to see if the new arrangement has better predicetive value than the old.

> The fifth test, general science, which was taken by the last two classes was always regarded as an experimental test. It has been replaced this year by a series of short a soldier on the stage, it does not foltests on visualization. Research low that the actor likes to be a solwork by Professor Thurston of the dier. That is to say it requires more University of Chicago seems to indicate that the ability to see in three dimensional space can be measured of the things that are necessary are by a test in space of two dimensions. It is known that ability to visualize however has found that people who three dimensional objects is one of do not have character-interests that the essential characteristics of a design engineer, and probably of other

was hoped to get at least one test which correlated very low with the other tests when taken by engineering students. The science test did not correlate as low as was expected, but it did fulfill other objectives. Next year another test may be tried.

Armour Institute created this year | Evenually a battery of tests will be selected which will operate most efficiently with a minimum number of

> Vocational Interest tests are still being taken by students and by persons outside of the Institute. So many requests came from women that the women's vocational interest test is now being given.

Many people have the wrong impression that these vocational interest tests measure the interest that square inch. scoring, and at the same time a sixth | This is not true. For instance, enpart was added on number series. The gineers possess certain likes and distest can now be divided into two likes, not connected with engineerparts. One part contains arithmetic, ing- to quite a different degree than analogies and number series. This the public in general do. What that part called Q is heavily loaded in | means is that from the standpoints quantitative thinking. The second of these likes and dislikes all engineers look very much alike and not like folks in the world in general.

It is hard to give a perfect comparison with more familiar objects, but this illustration might do. If one sees a man dressed in soldiers' clothes walking down the street, he says "There goes a soldier." In general he is right. Furthermore the chances are that such a man likes to be a soldier and is happy in his work. Occasionally this statement is not true. If a person sees an actor dressed as than the possession of characteristic interests to be an engineer. Some aptitude and personality. Strong characterized a profession rarely make a success of that profession. Which means in terms of the soldier In the original battery of tests it analogy that if one sees a man on the street not dressed in soldier's clothes, the probabilities are that he is not a soldier and would not care to

Some of the other work the educational testing office is doing is an (Continued on page six)

Fire Protects Hear Lecture by Abel Gent

At the regular bi-weekly meeting of the F.P.E.S., held in room A, Main last Friday, the fire protects heard Mr. Abel Gent speak on "Town Classification." The speaker outlined the points which are of prime importance in giving towns their fireprotection grading and showed how these points are checked over and evaluated. Mr. Gent is a graduate of the fire protection engineering department, and is now with the Illinois Inspection Bureau.

Town grading is one of the most | Roesch reports, if the auditorium canimportant functions of an inspection bureau, since the state bureaus rate attend. all towns in their state which have less than 20,000 population. The number of such towns is quite large, and since they are all regraded at least every six years there is a large | from the well to the consumer. amount of work involved. Town property is located.

Water Supply Important

The most important consideration for ventilation, is placed over the in grading a town is the public water entire layer, and another layer is supply. Next in importance are the built up. This is continued until the fire department, and the public fire entire corroding house is filled. The alarm system. In addition to these tanbark, which generates heat and three, the public ordinances for buildcarbon dioxide, acts with the acid ing construction, storage of materials, to corrode the lead and form white and maintenance of electrical equipment are carefully considered.

Actual inspection of fire equipment is usually carried out to insure capable of throwing an adequate fire | using the Stevens Viscosimeter with stream when needed. The water supply is carefully inspected as to size and condition of the pipes, pressure at hydrants, spacing of hydrants, and condition of the pumping station equipment. Water throwing tests for both fire equipment and water supply are run, using pitot tubes and other calibration devices to measure nozzle stream pressures, engine revolutions, etc.

State Bureau Approves Rates

When a town has been inspected report and a rating is given. A letter of recommendation is sent to the town officials and suggestions are made for improving the classification of the town, and thereby reduc-

Another of the functions which an inspection bureau has is the testing of new fire fighting apparatus prior to its acceptance by a city or town. Tests are run for a three hour period at pressures up to 250 pounds per

been following the practice of conducting a state fire college for firemen each year.

A.S.M.E. MEETING-(Continued from page one) versity while inventor Land was a student at that institution. Attracted and interested by Land's early experiments, Wheelwright suggested the

as a genius within the next three years was the basis of a research organization that perfected Polaroid and now employs twenty top-flight scientists. Mr. Wheelwright is currently engaged in a national lecture tour explaining Polaroid and its uses to institutions of learning, lighting and optical interests, and the many business men who visualize its use in their industries. Other lectures may be given in Chicago, Professor

Land-Wheelwright Laboratories. That

partnership with a student who was

to be regarded by his contemporaries

At the last meeting of the society, A. J. Smith of the Calumet Refining Company, presented a sound movie showing the processing of petroleum

not accommodate those wishing to

The film demonstrated the method grading is of great important be- of refining used by the Calumet Oil cause one of the first steps in rat- | Company. This method, patented ing any piece of property, for fire under the name of Schulze High insurance purposes, is to determine | Vacuum Process, is unique in that it the class of the town in which the prevents the oil from reaching the cracking temperatre and decomposing. Thus, all the lubricating properties of the oil are retained.

Another interesting portion of the film showed the sludge formed when oil is permitted to oxidize and react with the acids formed in the engine. The vacuum process seems to aid in freeing the oil from this sludge without using any solvents in the process. Actual tests showed loss of weight in bearing metals when a corrosive oil was used. The meeting adjourned to the physics lecture room where Mr. that the pumpers and engines are Smith demonstrated viscosity tests various types of motor oil.

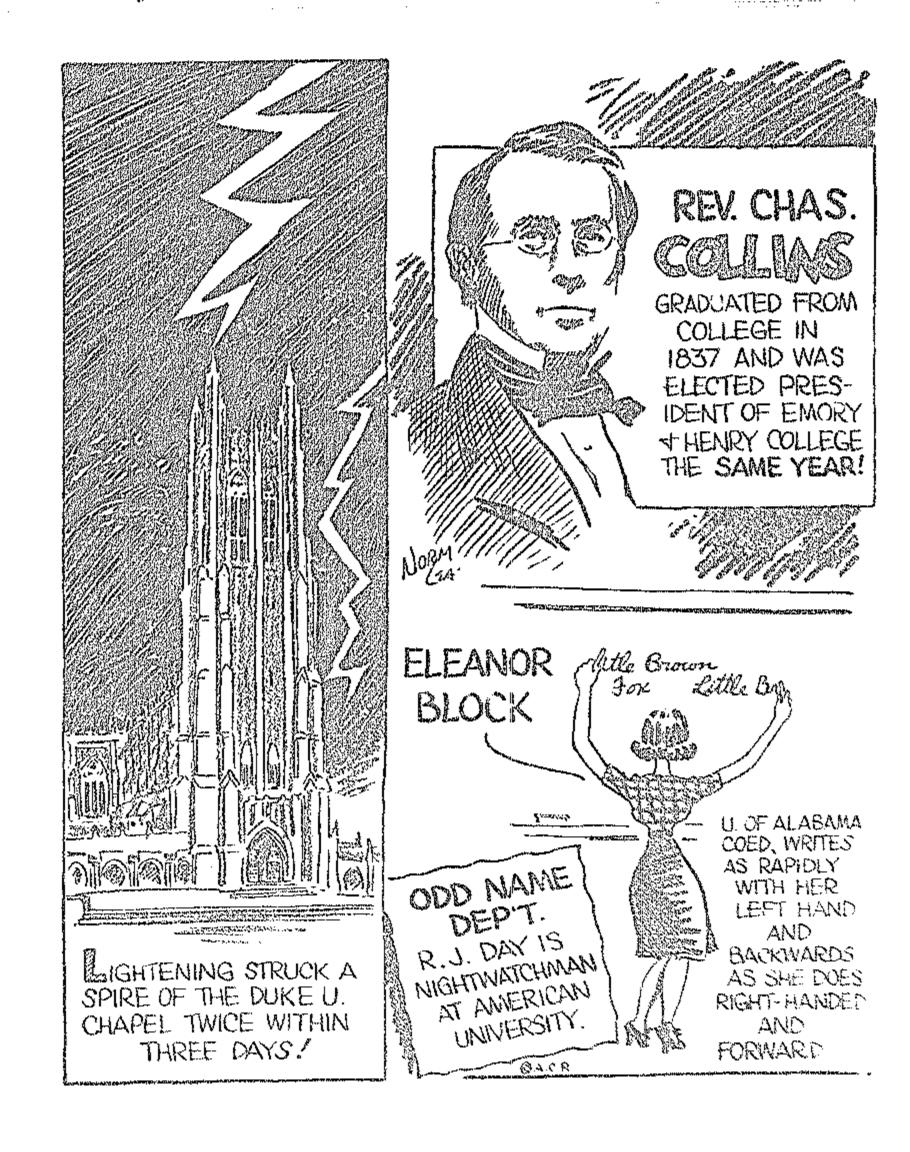
| Methods of Dealing with Unruly Frosh Invented

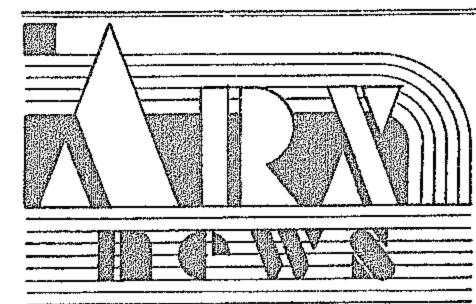
CORVALLIS, ORE. -- (ACP)-When Oregon State College freshmen fraternity pledges decided to walk out on their newly-found "brothers," they failed to reckon with the punishment for their sins.

After the neophytes decided they'd put their older members in their by the bureau representatives, their | places by staging a mass exit, they findings are compiled in a detailed finally returned to find the following "duties" awaiting them:

The Alpha Tau Omega's stayed up all night waxing floors, polishing furniture and trophies. Of course, whacks and cold showers were in the offing. ing fire insurance rates. When a At the Kappa Sigma house a nice town makes any such improvements lively lamb was left for the boys to the proposed changes are submitted take care of along with sawdust to the state inspection bureau for ap- | inches thick on the floor to be cleaned by 6:30 o'clock in the morning.

Now to get to the girls' punishment. The Kappa Kappa Gamma girls ate onions and brains and left their make-up kits at home the next day. They also cleaned house until early in the morning and slept on hard floors all night. The Alpha In recent years many states have Gam's managed to get cold water baths from their members and all the fraternities around joined in and gave them good duckings.





bain tried to hit the bull's eye . . . ic lighting, and dramatic lighting. Mirotsnic did!; with the coming scale.

The juniors are thinking of the coming banquet, on the evening of the frosh initiation into the Armour Architectural Society, of which they will be in charge. It is rumored that there will be a number of speakers. This gala occasion will be within the next two weeks, as winter will soon be here.

We've been thinking of naming Viren: "In again, out again, Mulligan," catch?

W. Hutton has decided to go to the Beaux Arts Ball as a fireman with a bottle.

Dope: Gee, but a lot of nice things are going to happen today.

at 2:30, "coke" time!

Brite-Lite: How?

Friday, Goldsmith and his gal friend (singular) held ye junior's mouths open . . . Goldsmith is now the most popular fella with the juniors, and he didn't have to use Listerine or Lifebuoy to become the boy that all want to know better.

It is rumored that the proceeds of the Arx dance are to go to the purchase of enlarged photos of those that the juniors and seniors were looking at last week, mmm, maybe they've got something there.

Pointek, soph massier, is thinking up some "doozers" for the frosh initiation . . . Mr. Jos. Q. U. Wagner says that it's kinda peaceful up there, maybe it's the calm before the storm; uh, maybe.

In the SCARAB sketch competition, Jim Speyer was the non-member to receive the grand prize, of a subscription to Forum.

'Til next-

BOZ-ARTS.

ASSEMBLY-

(Continued from page one)

skies are cloudy, the students should prepare for the worst and bring their oilskins. The outlook taken, and properly so, is that half a million persons go to see football games each Saturday and if it rains, they go anyway. Certainly no one can feel put out because of a few raindrops.

Instructions for assembling of the various groups before the ceremony are as follows. They should be clipped from this page and kept until Friday morning in order that difficulties will be reduced to a mini-

All lines will form in double file at 10:20 after dismissal of second hour classes.

Seniors and graduate students form lines on 33rd street in front of Machinery Hall. The head of the line being at the south-east corner of the building.

Juniors and third year co-ops form on the west side of Federal street along the east wall of Machinery Hall, with the head of the line at the southeast corner of the building.

Sophomores and second year co-ops will form on the cast side of Federal street beside the new Union, with the head of the line at the northwest corner of the building.

Freshmen and first year co-ops will form on the east side of Federal street, in front of Chapin Hall, with the head of the line near the physics laboratory.

Faculty members, research staff and employees will form on Federal street in front of Main, and the head of the line will be at the northeast corner of the building.

Each line is to be headed by two student marshals under the supervision of Professor Nash. The lines will move at 10:35 and in the following order: seniors, juniors, sophomores, freshmen, faculty, research staff, and employees.

Beck, Professional Photographer Lectured For Camera Club at First Formal Meeting Steam Shove

photographer, gave the Camera Club a lecture and demonstration of portrait lighting, last Friday night, in the Camera Club's rooms. The lecture and demonstration showed ad-Well, sir, things have definitely vantages and disadvantages of the picked-up in the junior-senior draft- various types of lighting for portrait ing room what with a little basket- work. Among the types discussed by ball practice, using a beachball, Ur- Mr. Beck were, basic lighting, dynam-

Preceeding the lecture on lighting, | plained the differences between men touch-football games the same Mr. Beck judged twenty-four prints and women studies and gave the Cemjuniors and seniors are doing a bit of | taken and developed by members of | era Club several methods of overcompracticing with that; my, what activi- the Camera Club. These pictures ing glare and reflection caused by ty, especially so athletic; the seniors were divided into two sets: portrait glasses. Following the lectures, cider are doing what the juniors did last | prints, and unposed prints. The | and doughnuts were served to all year, making models, to quite a large | print which won the first division was | members and guests present at the was a picture of a small girl and a meeting of the Camera Club and was dog lying before a fire place. The considered a success by all who atcomposition and excellent lighting tended.

N. F. Beck, prominent profession- were the major factors of the print's superiority.

> "Upsy-Daisy," by George Raymond won the first prize in unposed shots It portrayed a stage setting of two acrobatic dancers and its excellence was accredited to the fact that it stopped the motion of both dancers and was a very brilliant print.

During his lecture, Mr. Beck ex-"Contentment" by Don Grego. It meeting. This was the first formal

Prof. Freud to Slay Future Chems With Stiffer Course! Harder Book Promised

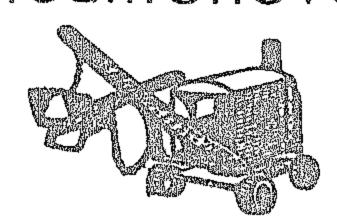
there hangs an impending doom. On next year?" with a sneering glance at the word of Professor Benjamin B. the quavering volume, "No! We'll use Freud, semi-arbitor of the destinies another, that nobody understands!" of the committed chemicals, the new This, of course, involves a little specrop of freshmen will be exposed to a curriculum twice as hard as ever before. This is somewhat discouraging to the upperclassmen who have already, under the present regime, taxed the groaning gray matter to Dope: At 12, it'll be lunch time and the last feebly protesting cell. The seniors are going to be terribly let down when a little man trundles up, peers out wistfully from under the brim of a fetching green hat, and lisps, "Tell me sir, for my assignment in the Theory of the Functions of the Complex Variable in Reference to Nuclear Thermochem. . . . Hey! Where yuh going?"

The report, unfortunately, is not exaggerated and is founded in fact. It is, to coin a phrase, the real McCoy. Prof. Freud did not have the air of a man who speaks jestingly, ha, ha. No. Rather, he faced the class with the air of a man killing time while reason for the stiffening of the course. wondering where his next derivation | Something about, "Increasing Indus-

Over the heads of a new generation | "Do you think we will use this book cial training for the new students.

It's going to be tough alright, but the Professor is bringing it on himself. Even his position will be strained. Will he be able, with the three men that survive the lower classes to say that a gas is twentyfour mosquitoes in a closed room, and a liquid a can of angle worms? Unless he radically revises his lecture technique the whole class will walk out muttering to himself about molecular energy levels versus worms. There was an alternative about did you have to pay for the girl friend at a movie by weight and well wasn't a molecule the same thing from liquid to gas? That one escapes most people, however; you so seldom see a molecule going to the movies. The infant brain trust will get it, no doubt.

Some flimsy excuse was offered as



B. G. Anderson was in a daze when he left the social last Friday. He walked around in the rain for about ten minutes claiming he couldn't find the elevated.

Ed. Swanson had a little trouble finding the girls tall and fast enough.

Take Don Crego-he found one girl and planning for a date he tried to find the address. "Well I live 6600 north and 1400 east." In other words, Crego-you'd better get a boat, she must live out in the lake.

Armourites know Lorraine Chase now. Each managed to have a few steps before another pal would cut

Moculeski was stepping around quite lively and happened to say (when we were around) "Are you clinging to me my little turtle dove?" And he just met the girl!

That "Brother Winston" drives a hard bargain permeates the minds of about . . ." in on a new De Soto two | street, looked up, surveyed it and years ago for \$400 allowance was said, "Wosh, what a steep climb." nothing. He also demanded a radio | On reaching the top he looked down and the spare tire to be put in a and shuddered, "Whooey, it's a fender well, the latter costing \$35.00 | miracle I didn't fall down the face alone. "You gotta be tough, don't of it." give an inch," would just about make a good description of his methods.

The arrangement of DAN STONE roles is about completed. conducting the dance class and DON CHARLETON leading the dance orchestra to play for the class ought | ter entertainment than the University | ber 18, and will not be extended. Folto be swell. ESPECIALY IF . . . a of Chicago football games. Ask WESfew hundred girls from the Normal |SELS| and |DUNCAN. $|VANDE_-|$ College move down once or twice a KIEFT doesn't know what he's misswas coming from, and announced: trial Complexity." What Industry? | month to these dear portals and as-ling by sending COLLIER instead.

WHIZZER" LL-AMERICAN QUARTERBACK OF LAST SEASON, NEVER DROPPED BELOW AN "A" IN ANY OF HIS STUDIES · · · IHE "WHIZ" WAS KNOWN TO STUDY HIS CALCULUS STRETCHED OUT ON A RUBDOWN TABLE BETWEEN HALVES! MAYBE THAT'S WHY HE IS A RHODES SCHOLAR. Minimum 1 33% OFALL FRESHMAN DROP OUT OF SCHOOL ; MOREHOUSE FUNKHOUSER PRES. D.W. MOREHOUSE OF DRAKE U. HAS A COMET NAMED FOR HIM WHILE A SPECIE OF THE FAMILY SEND YOUR ODDITIES OF CECOPIDEA BUGS IS NAMED AFTER DR. W.D. FUNKHOUSER, DEAN OF THE U. OF KY. GRADUATE SCHOOL.

sist the boys. After all, one can't Professional Chemicals to dance with his shadow, or can ONE?

Worst joke of the week award the members of one of his thermo goes to "Doc" Olson for his joke classes. Trading a \$200 1931 Pon- about the marijuana addict who, tiac with a clutch that was "just coming to a curbstone from the

Hams" have just about reached "Journey's End." Casting for the | Alpha Chi Sigma theme contest are

It looks like the "Armour Star

Close Contest Next Week

IATE PRESS-MPLS. MINN

At a special pledging held last Tuesday, Eugene Kalnin was pledged to Alpha Chi Sigma, the professional chemical fraternity. The special pledging was held because of Kalnin's long absence from school, which made it impossible for him to be present at the regular pledging ceremony. Now that he has recovered and is back at work again, the members deemed it proper to hold the special meeting.

Students who are entered in the urged to get their entries finished up and handed in in the next few days. The stay dances afterward are bet- | The deadline has been set for Novemlowing the precedent set down in previous years the subject is to be "Why Choose Chemical Engineering?" and the length is to be 500 words.

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Tobacco Company Winston-Salem, N. C.



P= LIGHT UPA CAMEL

Smokers find Camel's Costlier Tobaccos are SOOTHING TO THE NERVES

Senior Chems Beat Juniors 13-6; Head for Title

Rothenberg Stars As Champs Avenge Last Season's Tie

Senior Mechs' Long Pass Ties Junior Juicers

Vengeance is sweet and today the Senior Chems glory in theirs for they have at last taken the Junior Chems into camp. For over a year, the Seniors have waited for this chance and when they got it they took full advantage--in fact, to the tune of 13 to 6. The payoff was staged on Ogden Field last Thursday noon.

This amends for the scoreless tie the two teams played last year and which was the only game the Seniors didn't win in their championship program.

Passers Win for Seniors

In one of the hardest played games of the year, the Seniors showed that, portant, they had better passers. knock down. Kruse, Rothenberg, and Adeszko were able to complete Senior passes consistently while Carpenter and Sher couldn't find the Junior receivers. fighting and shifty Junior Electrical Several times the Juniors shook men into the clear only to see the passes fall short or be intercepted.

The Seniors threatened to score on | teams remain in the tourney. the third play of the game when Kruse took a long pass from Rothen- flashy juicers, the Mechs were held berg but they just couldn't put it at bay. Except for a few instances, over. Near the end of the half, the the fight settled about the middle Seniors started when Adeszko inter-stripe, with both teams fighting at a cepted a pass by Norkus. Three plays draw. At one time during the first later and the ball was on the two half the Elects had worked the ball yard line. Then Kruse started on a up to the ten yard line of the Mechs. wide run around his left end, sucked | Here the bail changed hands, and the in the secondary, and passed to Lyck-|Seniors were at ease once more. berg for the score. The play was so perfectly executed they pulled it again for the extra point and the score was 7 to 0 and it stood this way at the half.

Fahey to Natinchek Scores

After four minutes of the second half had elapsed, the juniors scored their lone touchdown. Sher passed into the flat to Fahey who eluded Kruse, and raced to the two yard line where Rothenberg caught him. On the next play, Fahey passed to Natinchek deep in the end zone for the score. A similar play failed for the point.

in midfield by Norkus, Kruse then dropped back and threw a long pass to Rothenberg who dived into the cin-

Wrestlers Promise Successful Season

Promising a good record for the year is the returning mat squad headed by Captain Tullgren. As yet not a large number of meets have been arranged definitely, but many contacts have been made.

Wheaton, which always presents a strong team, will furnish the opposition in one meet, but there will be no return engagement. Morton Junior year.

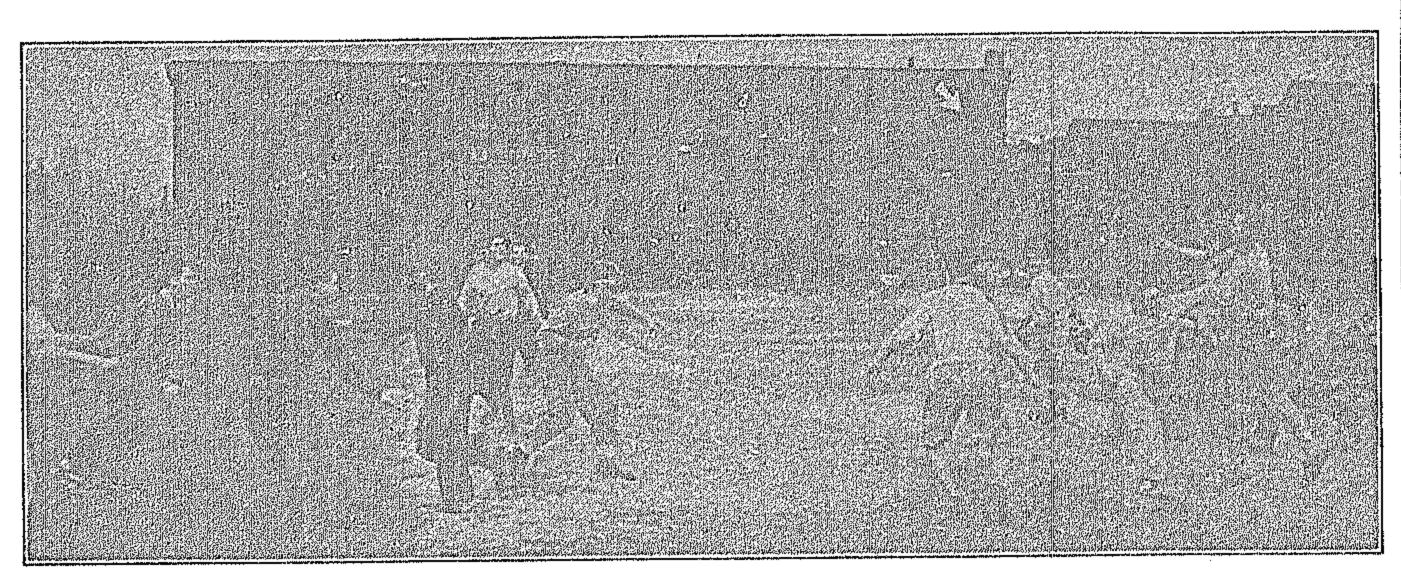
plied Sciences in Cleveland, Ohio, is way through the half the Juniors being strongly considered. If the again relied on Clark to heave a meet can be put within the budget, touchdown pass, which he promptly the boys will travel to Cleveland. In | did. This completed the scoring in the spring the team will enter the sec- the 19-0 rout of the Sophomore ond annual Wheaton Invitational Mechs. tourney.

The definite date for the opening of the season hasn't been set, but it will probably be in the first week of December.

The team will be strong this year due to the fact that there were few men lost by graduation. Till, a coop, will return in the 125 pound class. Ropek, this year's manager, will be bers. in there throwing them as well. Hanna is back at 145 pounds.

the heavies. In addition to the re- in front for the rest of the game. turning regulars, there are some positions.

Here's One That Failed



But they didn't all fail, for the Senior Chems went on to turn back their junior focs 13-6. This is the fifth play of the game, which found the seniors on the Junior Chem two yard line. The pass from Kruse sailed it was just that but played cleanly -Photo by R. Grunwald over Lyckberg's head.

the game clinching touchdown.

After this the juniors made only without a doubt, they were the better one serious threat, that being on a team. Their defense was better, the long pass from Sher to Fahey which blocking more efficient, but most im- Rothenberg just barely managed to

SENIOR MECHS TIE 6-6

Meeting stiff resistance from team, the Senior Mechs were just able to tie the score at 6 all last Friday. As a result of this tie, both

Because of the speed shown by the thews scored the extra point.

Drawing first blood in the second half were the Elects, who worked the ball up to the 15 yard line of the seniors. Ther a quick toss to Shaver rang up the juicers' sole six points. Within a very few minutes, the Mechs had gained control of the ball and proceded to attack the Elects' goal. Millar then spiralled a long pass to Clark in the end zone for the tying count. The try for the extra point was smeared by Shaver and Oldenburg. For the remainder of the game both teams tried for breaks and Oldenburg nearly intercepted a dangerous flat pass that might The Seniors came back a few plays | have meant the winning points. Howlater for the final tally. Adeszko ever the game was over, and the passed to Lyckberg who was caught Junior juicers had to be satisfied with a 6-6 tie.

JR. MECHS QUELL SOPHS

Presenting a strengthened team with the return of Jack Clark, the Junior Mechs whitewashed the Sophomore Mechs 19-0 last Thursday. It was the first defeat for the Sophs.

At the end of the first half the Juniors had built up a 13-0 lead. A long pass from Clark to Wolniak counted for the first touchdown, while a run by Wolniak from midfield to the Soph's 2 yard line placed the ball in scoring position for the second touchdown. A short pass from Wolniak to Lasker made the score 13-0.

During the second half the Sophs awakened and put up an offensive College will be met twice again this | fight that carried them to the four yard line. Here the Juniors held and A meet with the Case School of Ap- regained possession of the ball. Half-

SOPH FIREMEN WIN 19-14

Playing in the Ogden "dust bowl" last Friday, the Soph Fire Protects overwhelmed a speedy Soph Electrical team, 19-6. Because of the great sportsmanship shown by Capt. Matthews of the juicers, both teams played with equal but reduced num-

having already lost one game, the interception and safety which would and the punting of Jack Schandley, his power, his plays appear more ex- completed their tourney with Cade, Kazmierowicz and Tullgren, cap- game was played very hard by all have given Cal the victory by one came back late in the final period to tra-legal than some of the lighter soph civil, victorious over Baum, tain, will work at 165 and 175, re- participants. The firemen set up an point. A quotation by one of Arch work the ball to the one foot line on players whose tactics are actually soph mech, in straight sets 6-3, 6-3. spectively. Balsewick will return to early lead of 13 points and kept out Ward's contribs in the Tribune shows a long pass, Clark to Clark. How- more contrary to good sportsman-

Using the short pass as their best promising recruits who will press weapon, the actuarials quickly ad- best twelve man team in football! Re- ed. the more experienced men for their vanced to the Elect's goal line. A member John Schommer vs. Southern short pass from Sweeney to DeMoney | California?—Thomas Bieting."

ders to make a beautiful catch for scored the first six points for the Fire Protects. Again Sweeney passed to Zoellner for the extra point.

> Soon after the firemen were on the loose again; this time, last down found them nearly midfield. Then a long pass from Sweeney to DeMoney in the end zone brought the Fire Protects total to 13. However the juicers be content with the running of Matthews. Matthews raced around right end from midfield to the two yard line, from where he ran the ball over. On almost the same sort of play Mat-

Again the firemen started to pass, and this time a short pass from Sweeney found Zoellner in the clear waiting with open arms. He then scurried across the goal unscathed. The final touchdown for the Electricals came as a result of a nice run by Matthews to midfield. From there he have been the property of the chemithrew a long pass to Carrier, who cal department and it should remain made a spectacular catch and ran over for the six points. Soon after Matthews passed to Bucko for the extra point, the game ended.

FLOOGIES BEAT SOPH CHEMS

Trucking down the field, thrice the Flat-Foot Floogies came through to defeat the Sophomore Chemicals, 18-

The magnitude of the score, how-Chems' passes.

for first blood. The try for the ex- crossing of the Senior's goal. tra point was broken up by an alert ceiver dropped the pass.

Getchell Decision Recalls

Tech 7-0 two weeks ago last Saturday after a John Getchell incident which ward to it. made more history for football than perhaps all the other games of that day put together. When the game Rho Delts Beat Phi hinges on the ref's mistake and decision as well as on the breaks of the game, it is long remembered.

It takes mistakes to make a referee and even our own John Schommer, an established referee, admits he has not been exempt from them.... Take the Southern California-Notre Dame game played in Soldiers' Field some have it intercepted by the Rho Delts ten years back.

With a Southern Cal pass sailing into the end zone, the Notre Dame halfback ran with the ball ten feet before dropping it and thus preventing, according to our John, backed Kaps, paced by the stellar pass com- this Tom Collier adds, "By virtue Being a crucial game, both teams up by official Walter Eckersall, the bination of Tom Clark to Jack Clark, of his fervid interest in the game and how such an incident is recalled.

Chems to Meet U. of C. Winners

Unless a most unexpected upset came right back, although having to occurs, it will be the Senior Chems against the University of Chicago champs . . . there is good reason for this belief since of the three teams that entered the week with perfect records, the Senior Schmiers were the only ones to emerge the same . . the Junior Chems lost, and the Senior Mechs were tied.

> Providing the chems win this year, it will make four years in succession that the touchball championship will there next year too . . . and since the tournament has only been part of the intramural program for four years, this is indeed a remarkable record.

The game last week provided many interesting points that might have escaped the spectator . . . both of the Senior passes were thrown by their ever, is a poor indicator of the true star receiver, Willie Kruse, and the events of the game since two of the Junior pass was thrown by their prin-like jack-in-the-boxes, now you see scores came on interceptions of the cipal receiver, Jim Fahey . . . the them and now you don't. They pretouchdown by Lyckberg was the first sent quite a problem to the coaches Early in the game saw a quick pass, scored on the Juniors this year while at Armour, who, after diligently McDonough to Bell, who reversed his the same applies to the score made training some coop athlete for a numfield and romped over the last stripe by Natinchek . . . it was the first ber of weeks, find said athlete back

The touchdown by Natinchek made chem secondary. Another tally was him high scorer on the Juniors while chalked up early in the second half Kruse remain high scorer for the when Tatge interecepted a Schmier seniors despite his lack of points in pass with an open field in front of this game . . . the play leading up him. The third score also was made to the Junior score was not as viewed on an interception but again the ex- by the officials . . . the pass receiver, tra point was broken up when the re- Fahey, did not get by Kruse, who tagged him on the heel . . . despite the terrific blocking and the hard playing, both sides appreciated the fight and spirit of their opponents . . and incidently, both teams greatly desire a game with the Senior Mechs Schommer-Southern Cal. for more reasons than one . . . it is the opinion of the two teams that Notre Dame defeated Carnegie there will be another meeting between them and both are looking for-

Kaps in Semi-Finals

Led by Harvey Rothenberg, the Rho Delta Rhos defeated the Phi Kappa Sigs 6-0 in a closely matched contest.

Phi Kappa Sigma opened the game by passing on the first play only to who quickly completed a pass, Rothenberg to Epstein for the first and lone tally of the game.

Despite the fact that they were on game of perhaps anyone in the school, the short end of the score, the Phi but he also plays a square one." To winning. ever, the needed scoring punch was ship." "Good old Notre Dame! Still the lacking and two trys at the goal fail-

Rho Delts held till the final whistle. front, with the school champ as yet vision.

Basketball Squad TOUCHBALL SCHEDULE Monday Has Big Turnout Frosh Rats vs. Junior Elects. Today--12:20

Senior Chems vs. Senior Mechs.

Tomorrow-12:20

Soph Mechs vs. Junior Chems.

Thursday—12:20

Senior Mechs vs. Junior Elects.

Friday-12:20

Friday-1:10

By TOM CLARK

Hats off to the senior and junior

chems for a swell game played and a

fine showing of sportsmanship. Long

heralded as the battle of the century,

and fairly. The seniors won, 13-6,

but the two teams may meet again

News notes from three days of

basket-ball practice: Eggers pulls

an a la Henriksen and gets his nose

broken in the first week of practice.

Manager Grabacki reports no towels

missing as yet, but somebody didn't

sign for their sweat sox. Whitehead,

captain of last year's freshmen,

looks as smooth on the floor as ever.

O'Connor, a legacy from St. Viator's

and a classy ball handler, should bol-

They say history repeats itself, an

old adage that must be more than

just a rumor. Look at inter-fraterni-

ty touchball; the Delts and Rho Delts

go to the finals again. If the Delts

win, and the odds are with them,

then it's 100% rating for the adage.

Time alone will tell the tale (to mu-

cused of playing a super-selected

schedule in the current tournament,

and consequently enabled to classify

themselves in company they're not

entitled to mingle with. To prove

fair" (unquote) they have thrown

caution to the winds, and will pro-

ceed to eliminate themselves from

the tournament by playing the sen-

Co-ops are peculiar people. They're

at work in Peoria, or some such

place, just when he is needed most.

Following a precedent that was set

last year, we would like to announce

that any juniors who are interested

in the job of assistant intra-mural

manager may apply now. At the risk

of being misunderstood, we'll still

say that being intra-mural manager

amounts to nothing more nor less

than being water and bat boy for the

By H. R. COYLE

with Professor Schommer the other

day, and so with apologies to him

whose fame on the middle-western

gridirons was depicted in an article

on this page a few weeks ago, we re-

call the incident referred to in the

Notre Dame - Southern California

game of about ten years back, in a

Rho in the finals today as the former

powerhouse defends its title for the

last time this year. Leading the

Delts will be Puhl, Scherer, and Tull-

Clay DeMent, Phi Pi man and in-

terfraternity director of sports, stat-

ed last week with regard to Ralph

Tullgren, "Buzz plays the hardest

story elsewhere on this page.

Arch Ward's column caught up

ior chems today at the lunch hour.

The senior mechs have been ac-

ster up the squad quite a bit.

Soph Firemen vs. Flat Foot

TECH

Junior Mechs vs. Phi Pi Phi.

Floogies.

Due for Long Scrimmage; Eggers Injured

Although already handicapped by one injury, and the three day practice session, Coach Stenger is rapidly drawing his charges into physical shape. So fast has been the conditioning that the veterans have already had a short scrimmage with a longer one due in the immediate future.

Despite the fact that hard scrimmaging has yet to appear, one member has been removed from practice temporarily. Johnny Eggers suffered a broken nose as a result of contact with O'Connor's elbow. The aceident occurred during a mass meeting under the basket. O'Connor jumped for the ball and as he was coming down he met Johnny coming

The turnout, which was only nineteen in number the opening night, has increased to about thirty and the increase has slowed up the progress made the first two nights. However with the coming of scrimmage will come the cutting of the squad and then the team will get along much faster.

Work is still being done on the schedule which includes two open dates. Coach Stenger is endeavoring to get another game or two in the Coliseum, especially against Ripon or Beloit if possible. Negotiations, however, are proceeding slowly and no anouncement will be definitely made for the next two weeks.

Three Undefeated Teams Remain as Title Game Nears

With the downfall of the Junior Chems last week, only three teams remain undefeated in the race for the championship. One of these has maintained a perfect record, having t won four straight. This, of course, their "sterling character and love is the Senior Chems.

The other two teams are the Senior Mechs and the Junior Elects. The former has a record of two wins and one tie while the Juicers have the same number of wins with two deadlocked games. Both of these teams as well as the Junior Chems are still very much in the battle for first place, but the Mechs are Jeopardizing their chances this week by meeting the champion seniors.

Mechs use Novel Defense

The Mechanicals present an innovation in the touchball tournament this year in that they always have three men rushing, and sometimes four. The strategy of this seems to be in rushing the passer so that he can't get off a good pass to potential receivers. To back up these rushing tactics, the Mechs play their two best pass defenders in the backfield, they being Clark and Vande-

The Electricals, on the other hand, depend on offense more than defense. The passing of Rehwaldt and Oldenburg and the receiving of Danny Shaver are their main weapons, and so far these have been sufficient to carry them through undefeated. This week the Juicers will again play the Senior Mechs whom they tied last

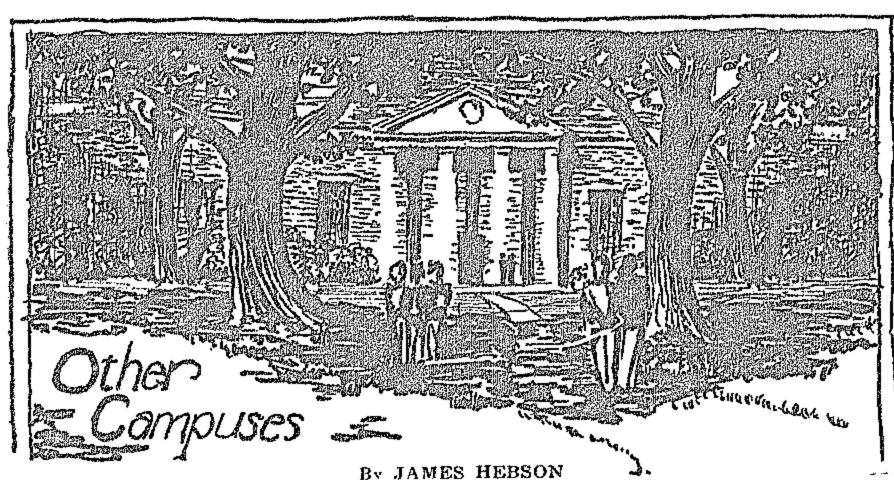
Tough Week for Seniors

An interesting point arises from this week's schedule. The Senior Mechs are very much in danger of Delta Tau Delta faces Rho Delta being eliminated within two days. It is practically a certainty that the Senior Chems will beat them and if the Electricals tighten their defense on long passes, they too might beat the Mechs.

> The other team still having a chance is the Junior Chems. They meet the Soph Mechs and unless they suffer a letdown from last week's encounter, should have little trouble

undecided. The upperclassmen have

The freshmen division has yet to be completed. Benton and Meinhold are to clash in the finals of the fresh-Another week of inactivity has men tourney for the right to meet Relying on punting and runs the passed on the intramural tennis the winner of the upperclassmen's di-



A University of Texas mathematics class was recently dismissed in the middle of the class hour because a swarm of bats invaded the lecture hall.

As soon as they get the athletes off the gridiron they begin putting coaches on the pan.-Indiana University Daily Student.

University of California scientists have just completed a schedule o babies' crying habits during the early months of their lives.

More than 20,000 balloons were released at the opening kick-off of the Minnesota-Michigan football fracas.

shake it up.

nary Medicine.

sists of a kind of merry-go-round

with hydrogen and helium particles

swirling speedily so that they pene-

trate into the nucleus of an atom and

The last "men only" tradition was

Pennsylvania State college students consume 100,000 spoonsful of ice cream in one meal, according to a recent survey conducted on that campus.

Of 315 women who recently passed pa keys.

The Rockefeller foundation has South America. made a grant of 18 million dollars to American universities for the purpose of bringing government employees of Latin-American republics to the United States so that they may study our form of government.

A 3,000 acre forest is the classroom for the Utah State Agricultural college's summer course in forestry education.

A freshman coed at Kansas State last year was granted the Ph.D. degree after attending that university only one year, the shortest period on the record. The reason, the Daily Kansan recently explained, was that "she married her professor."

Dr. Malcom H. Heeb, Duke university physicist, has invented a polaroid headlight which will entirely eliminate glare and reduce traffic accidents at night.

Sixteen members of the Northwestern university football team are accomplished swing musicians. Heading the list are halfbacks Bernie Jefferson and Jack Ryan, a pair of mean trumpeters.

Alabama State college students have been looking high and low for missing candidates in a recent campus election. It is believed that the unfortunate student politicians were kidnapped by opponents who were afraid of probable defeat.

Gifts to the University of Chicago during the last nine years have totaled \$52,000,000.

The new women's piled-up hairdresses took a beating last week when the editor of the Wampus, Southern California's humor magazine, said, "scrub-women have been doing it for years."

One art student at least doesn't agree with the idea that an artist should live in a garret, knee deep in poverty. So he capitalizes on his talent by working in a local beauty par-

Members of the New York university senior class voted unanimously to support Mayor LaGuardia for president if he is a candidate for that office in 1940.

"An apple a day keeps the doctor away" is not good enough for Great Britain these days, according to the campus newspaper at the University of Kansas. The student editor has changed the motto to "A country a day keeps Herr Hitler away."

Paul Whiteman recently returned from Canada with the news that the French word for "jitterbug" is "insecte de jazz."

A new curriculum in Ohio State university's college of engineering leading to a degree in welding engineering was inaugurated this fall.

A \$93,000 cyclotron, the atom smashing apparatus used in research work in nuclear physics, is being installed at McGill university. It con-

Stoopbrain Enters Movie Contest and Ushering Racket; Gets in Feminine Mess

Deer Sally,

Apple Peeling," unquote.

Dew yew no wat a movie quiz kontest iz, deer mountin flour? Wel, their iz won being konducted now fore a first prize of \$50,000.000 and I am a sinch tew win it. The questions iz so darn eazy, like in the picture-

Love Bites Andy Softy," oh, a grate picture starring Ickie Loonie and betwean the first prize and mea.

Wel, the boy's our mixing it up (and down) again. However, that uncouth sin of removal of britches or broken on the Iowa State College depantsing iz know longer present campus when Margaret W. Sloss received the degree of Doctor of Veteri- (or iz it?) The boys owr now moar lenient on each other. Abowt awl they

hav dun so far iz throw paving bricks Happy Applewit, who lost the orig- at each other, or grovel won another inal browne and yellow bassket and tew greese spots in the dust. I saw beet arowned the mulberry bush till won feller swing anuther arownd in hea fowned it, sed the other day, the aire and bat hiz hed aginst the quote—the newest danze rage is a brik wawl. It must hav ben a frosh's combination of the Big Apple and the | hed (density 299.009), bekause the Strip Tease. It is cawled "The Big | feller pulled hiz hed owt of the wawl, dusted the brik frum hiz hare, and continued (P.S.—the wawl colapsed a few howrs later). However, it iz a annuawl afare, and except four a few lawns, wawls, britches, sewer covers and botles of arnica, no damage iz dun.

footbawl games, and altho there teem | there are some questions that practi- | measurement. If the difference in Lewis Bone. The question iz-What | izn't so hot, the coeds are. (Whoo-| cally every applicant can answer, | length between two objects is less does Andy Softy want best beside Whooo! After saying a few hundred others that very few can. What is, than the probable error of measureate bucks and a car, (1) ate bucks, times, "Yes, sir, rowe 108, only a few however, of more importance is that ment, then even though one seems to (2) a brunette, (3) ate bucks, (4) a hundred more yards up tew your seet | there are questions which almost in- | be longer than the other, no one can blond, (5) ate bucks, 6) a redhed. The . . . Yes, lady, second ramp, first variably pick out students of prom- definitely say that such is the case. anzer of course iz a blonettehed and door, east end . . . no, sir, your ticket ise from those who are not so likely ate bucks. Then, in the picture "Alex- iz fore the other stand across the to make a success of their academic hamburger's Bagtime Rand" starring | feald . . .", etc., I pick sum bewtiful | work. That is to say, there are Falice Raye and Juan Ametchoo, the coed and sit beside her wen the game questions of moderate difficulty that question iz-"Wat iz the title song starts. Quickly geting down tew busof this picture: (1) 'Benny's Jazz- inez, I ask tew sea her ticket and say time Band', (2) 'It's A Long, Long shea iz in the rong seet, but that I Way tew the Alter, But A Shorter wil fix it up withe the hed gun. Then of the same degree of difficulty do Traces of a continent, lost for 100,- | Way To Reno', (3) 'Tanks for the I introduces myself az Halfway Battests for policewomen in New York | 000,000 years, have been discovered in Axelgreese', (4) 'Silver Treads | tlebrain, Yarvard, '38. Then I tel her City, 261 held college degrees and Mexico by two professors from the Among the Gold-Hiyo, Silver!', and about the 155 yard run I maid four are the owners of Phi Beta Kap- University of Michigan. The area (5) 'Alex's Bagtime Rand!" I clearly against narmy in '37, and how I threw disappeared when it was buried by an | pick "Silver Treads Among the Gold" | a 150 yard boomerang pass in the ancient sea that divided North and because it clearly haz a connection Princemouth game to deceive the enemy, 50 yards toward my goal, whence it would cut sharply back to- than last year's class?" The answer tween last year's and this year's ward their goal and go 100 yards to that question should be of partic- class which can be said, from the down the length of the feeld, and by ular interest to engineering students, standpoint of mathematics, to be stathat tyme I wuld bea at their goal because it brings up the question of tistically significant, although it is line and catch it tew. Yures,

Stoopbrain Bliss.

EDUCATIONAL TESTS-

(Continued from page five) attempt to find out, if any of the tests or combinations of them will predict how long a student will stay at the Institute. Another investigation is to see how closely grades can be predicted from the educational tests. Both of these problems are long time problems and only a little has been learned in the last few years. What has been learned however has been of great value.

differentiate decisively between the students who are gifted, and those who are not, whereas other questions not seem to be able to distinguish between the two groups. Just why this is so, is still somewhat of a mys-

worse is measured. First one must ally exists.

determine what is being measured and then what the unit of measure is. A person cannot say that one object is three inches botter than another, although there might be instances where length could be interpreted as heat. This is done by the length of a thread of mercury in a thermometer. When such a comparison is made, the unit of measurement must be known, and the three inches must be interpreted in terms of units understandable where heat is considered. So the answer to the question so frequently asked is, "What do you mean Recently the department has been by being better?" "How are you gointensively engaged in the very in- ing to measure it?" "How are you teresting problem of investigating going to interpret your measurethe scholarship examinations to assist | ment?" Even after these questions the professors who make up the ex- have been decided there still remains Each Sattiday I usher at the Chi aminations. It has been found that the question of probable error of

> These are the questions which arise when one freshman class is compared with another. A statement that could be made is that there is a difference between the medians of class A and of class B on the reading test and that this difference either is sufficient to be statistically significant or is not. The interpretation of what that means is quite another story and it is in the interpretation that many satisticians get into The question frequently has been trouble. Up to date no difference has asked "Is this year's class better been found in the examinations bethe yard stick by which better or possible that such a difference actu-

