



Students Crowd in Science Hall for Wheelwright Talk

Polaroid Glasses Given To View Movies

An astonished group of Armour students crowded Science Hall last Tuesday, November 8, and saw controlled light perform some amazing feats including illumination without glaring reflection, three-dimensional motion pictures in full colors, and the creation of colors in colorless materials. This strange behavior was revealed in a lecture on "Polaroid" by George W. Wheelwright, III, former instructor of physics at Harvard University and at present a partner in the Land-Wheelwright Laboratories, before the Armour Tech student branch of the American Society of Mechanical Engineers.

Featuring the latest application of this revolutionary light control, a type of lighting that illuminates the glossiest paper without reflected glare, the scientist explained the properties of Polaroid and described the 250 years of research by the world's most famed physicists in the effort to effect this form of light control on a practical basis. No success has been achieved, he said, until the youthful Edwin H. Land perfected Polaroid.

Polaroid "Combs" Light Waves

Mr. Wheelwright held two transparent discs of Polaroid, about a foot in diameter, in front of his face on which a light was directed. Rotating one of the discs, his face was gradually obscured until it was blacked out completely by the previously transparent discs. The scientist explained this ability of two sheets of Polaroid to stop light as a crossing of their invisible structures or "optical slots". He explained that science believes light to consist of waves vibrating in all directions. Polaroid confines or "combs" those waves into one plane. When the second sheet of Polaroid is at right angles to the first, the single plane waves cannot get through the contrary "optical slots" of the second sheet.

Use Special Glasses

Actually, he explained, these slots are minute, invisible crystals—iodo-sulphate of quinine—so small that they cannot be seen under a microscope. There are billions of them in every square inch of Polaroid. The inventor had to create these infinitely small crystals, said Mr. Wheelwright, and then find a way of pointing their needle-like axes in one direction and holding them in that position. This was accomplished by placing them in a transparent, cellulosic matrix and stretching the sheet in a plastic state.

The ability of Polaroid to eliminate glaring reflection, he said, is (Continued on page four)

A.I.E.E. To Visit Steel Mill Friday Afternoon

At 10:30 Friday morning, James H. Miller, assistant superintendent of the electrical department of the Wisconsin Steel Company will deliver a short talk on "Electrical Apparatus in the Operation of a Steel Mill" before the A.I.E.E. student branch. Mr. Miller will probably outline the problems which confront the men of his department.

Later in the afternoon, the senior and junior electrical students will be excused from classes for the afternoon, in order to be at the steel plant which is located one block east of Torrence Avenue on 106th street for an inspection trip through the plant. Students interested in attending the trip are requested to meet at the main entrance of the steel company at 1 o'clock. V. Terp and A. Zarem are in charge of transportation. Any students having room in their cars are asked to notify the men listed above.

On December 2, a talk will be presented by F. J. Dahleiden, of the Insulated Wire division of the Okonite Company. Mr. Dahleiden will also illustrate his talk with samples of wire and cable.

Armour 'Eye' to Present 'Muskie' Fishing Picture

A two-reel movie entitled "Nibigami Muskies" will be presented tomorrow at 12:20 in Science Hall by the Armour Eye. This picture was obtained through the courtesy of the South Bend Bait Company and is as the name implies, a fishing picture. It is a thrilling picture showing "musky" fishing at its best.

Muskelonge, as the proper name goes, are among the largest and gamiest of all fish found in American waters. Their great power and jumping ability can tax the skill of even the best of fisherman. It is a thrilling picture of "musky" fishing at its best.

Student Directory Out; On Sale at Bookstore

At last the long awaited school directory is out. It came out this morning and is on sale in the bookstore for ten cents. This directory will be the largest ever published and will contain the names, addresses, telephone numbers, year, and department of 1306 students; the names, addresses, telephone numbers, department, and room numbers of 147 faculty members; the names, addresses, telephone numbers, and department of 27 graduate assistants and fellows; and the names, addresses, telephone number, and position of 48 officers and employees of Armour Tech.

Orders for Soph Jackets Must Be Placed by Friday

Next Friday at 11:30 will be the deadline for placing orders for sophomore jackets. Orders will also be taken every day in the lobby of the Main Building. There are two types of jackets, namely the campus coat type which costs \$9.50, and the jacket type which costs \$7.

On all orders placed with the committee, a deposit must be paid. The minimum deposit for the \$9.50 jacket is \$3.00 and for the \$7 jacket is \$2.50.

Measurements for both types of jackets will be taken Friday at 10:30 in the electrical laboratory on the second floor of the main building.

Students Gather on Ogden Field In Solemn Armistice Ceremony

Mechs to Tour Electrical Co. This Thursday

An inspection trip through the Chicago plants of the Hotpoint Electrical Company, will be made this Thursday, by the senior members of the A.S.M.E., at 2 o'clock. All senior mechanical engineering students will be excused from classes to enable them to attend the trip. An invitation has been extended to all junior members, who have no classes on that afternoon, to attend the trip. Registration, for the trip, must be made with any member of the inspection trip committee before Thursday. The group will meet at 2 o'clock at the plant located at 5700 West Taylor Street (900 S.). The trip has been planned in conjunction with the Business Policy course at Armour and will show the production problems and control, unique to the manufacture of domestic electrical appliances. According to the inspection trip committee, the best transportation includes either the Garfield Park elevated or the Roosevelt Road street car direct to the plant. Professor Nachman, faculty chairman, will accompany the group.

At the next meeting of the society, which will be held Friday at 10:30 a.m. in Science hall, several reels of motion pictures, titled, "Earth Moving," "Power for Oil Fields," and "Acres of Rice" will be shown through the courtesy of the International Harvester Company.

Last Friday, November 11, the members of the senior engineering classes were invited to attend the annual Automobile Show meeting at the Saddle and Siroin Club of the Stockyards Inn at 8 p.m. This invitation was extended to Professor D. Roesch, by D. E. Gamble, chairman of the Chicago section of the Society of Automotive Engineers. A feature of the evening was the speech by Joe Goschelin, Technical Editor of *Automotive Industries*, who described the new features of the 1939 motor cars. Mr. Goschelin is intimately acquainted with both the engineering and production divisions of all the motor car companies.

Three New Labs For Physicists

Enlargement of the physics department is rapidly nearing completion. Necessity for greater laboratory space was realized when overflow sections were held in the laboratories. At this time, three advanced physics laboratories, new offices, a machine shop, and shop for class apparatus have been completed.

At the present time, the new laboratories are being used for research on the production of vitamin D by electrical methods. These experiments are being conducted by Dr. Thompson.

An extension of the number of courses offered by the physics department has taken place as part of the expansion program. Four graduate courses in advanced physics are being given by Professors Copeland, Zeigler, Thompson, and Jakob. A course in advanced mechanics is being offered as an undergraduate course by Mr. Potter.

A number of lectures on subjects pertaining to physics will be given in the Chicago area in the next few weeks. "Determinism in Physics" will be given by Bertrand Russell, famous English mathematician and philosopher, at the International House Auditorium, on November 25. This talk is given under the auspices of the Physics Club of Chicago.

Dr. Thompson will also give a series of lectures on "Radium and Radioactivity" at the Wilson and Wright Junior Colleges.

President Heald Addresses Large Assembly

Standing with bared heads, facing toward the east, last Friday at 11 o'clock on Ogden Field, eleven hundred Armour men paid solemn tribute to those who made the supreme sacrifice in the Great War. Particularly honored by the ceremony were those Armour men who gave their lives in the cause of democracy. These men were: Jean Pierre Bechaud, '17; Charles Abbott Dean, '14; Stanley Dean, '06, who was also a member of the faculty; Jasper J. French, '19; Claude Hill, '16; Einar L. Nielsen, '19; Reuben L. Paskill, '17; and Enoch N. Severin, '15.

At 10:30 the entire student body formed according to classes on both sides of Federal Street. Led by Marshalls chosen from each group the students marched on to Ogden Field in a body to stirring marches played by the band.

Band Offers Selections

When the entire group of students was assembled the band played several numbers following which the glee club sang *America, the Beautiful*, and *America*.

The speaker was President Heald who in a stirring oration depicted the horrors and suffering of the last war. He told of the part which Armour played in the service of its country and of the various activities of Armour men who heeded their country's call.

Classes Dismissed for Day

At 11 o'clock the entire assembly faced east while far in the distance a trumpeter played *Taps*. Following the eleven o'clock pause President Heald concluded his talk by saying that the only thing that the World War ever did for the world was to furnish the finest argument for peace that has ever been formulated. Then, in accordance with previous Armour traditions, classes were dismissed for the day and the student body disbanded in an orderly manner.

This year's assembly marks the inauguration of a new plan for the Armistice Day ceremony. In previous years there has been an outside speaker present, but from now on the ceremony will be an all-Armour affair.

Broadcast Shows Role of Architect In Slum Clearance

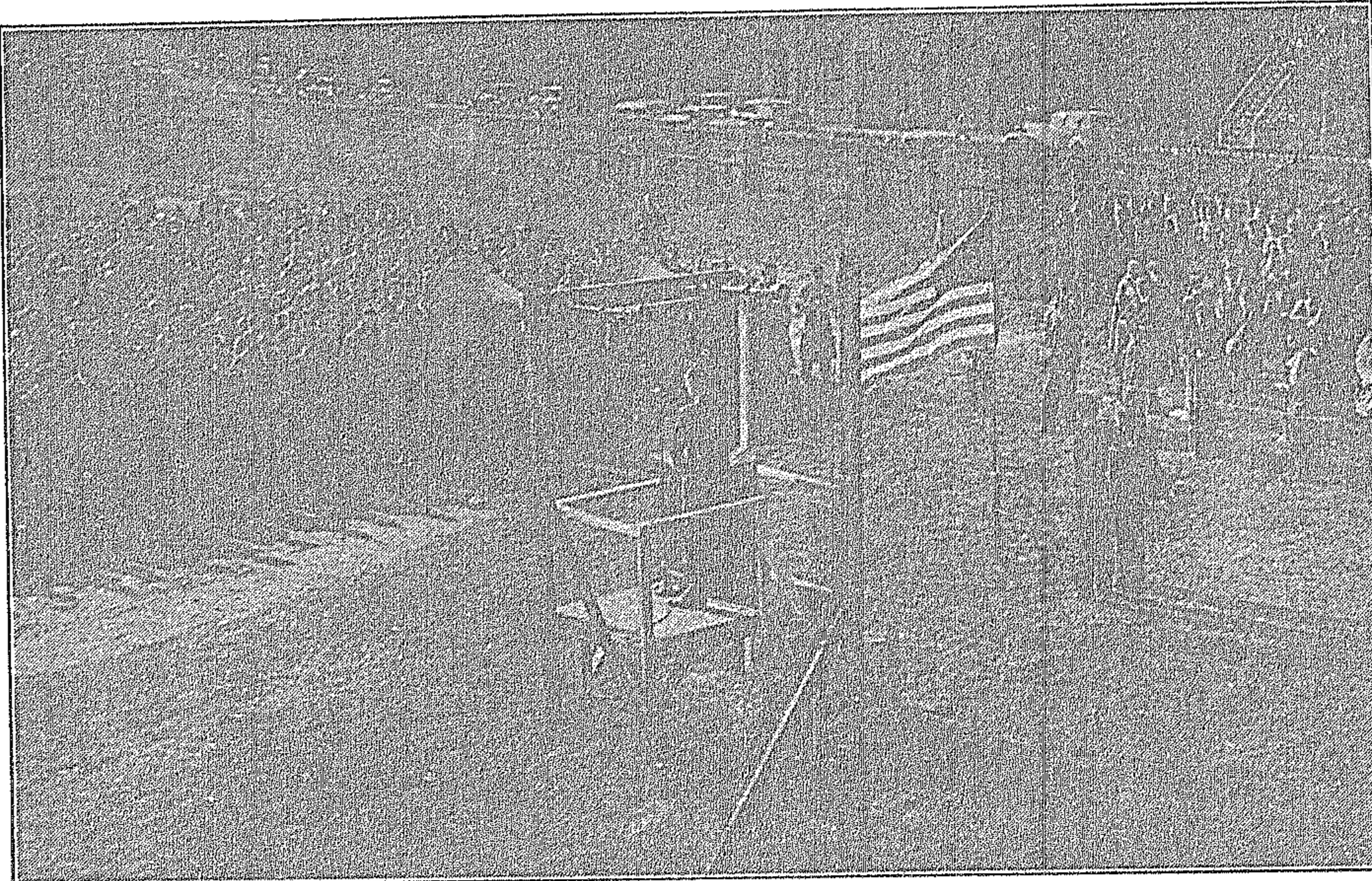
The last of the present dramatic series on the "Engineer" in his varied fields of endeavor stressed the architect and his contribution to a more complete life for the socially underprivileged. The program was devoted to the architect as a man of imagination who treats with the social aspects of housing.

Today there are millions of people who live in districts in which sanitation and cleanliness have been neglected. These factors, so essential to decent living, tend to drive despair and disease into the home. It is these homes from which children are born to continue in this same path of unprogressive activity.

Today's housing projects have given people the opportunity to develop in an atmosphere that is clean and wholesome. The odors no longer permeate the air and the windows are no longer dirty; cleanliness has produced a new view on the once gloomy horizon. The modern planned housing project has its open courts, its airy rooms, and its playgrounds as a result of the imaginative planning and understanding of one man, the architect. The architect is a man who contributes much to a happier, more complete social life.

The second series beginning November 19th will again bring the interesting phases of the various branches of engineering, dealing with each in a more detailed manner. The "Wirephoto" will be the first followed by "The Golden Gate Bridge, the Discovery of Radium, and the Transmission of Electricity."

ARMISTICE DAY ASSEMBLY IN OGDEN FIELD



Some of the 1500 faculty members and students as they listened to the address delivered by President Heald at last Friday's assembly. The glee club and band are shown at the extreme right.

Red Cross Roll Booth to Open In Main Lobby

The annual drive of the Red Cross to secure members for its roll call will be held at Armour today and tomorrow. A booth is installed in the lobby of Main for the purpose of securing members.

Membership will consist of two classes. One membership, involving a fee of \$1 enrolls the person on the official roll and entitles him to a Red Cross sticker and button. A second class of membership, requiring only a voluntary contribution entitles the contributor to a Red Cross button.

Armour's drive is being held in conjunction with the national drive which is held every year from Armistice Day until Thanksgiving day. Two movies will be shown today in Science Hall covering the subject of the work of the Red Cross. "Why Not Live," the subject of one film, deals with methods of accident prevention. The second film, "Behind the Flood Waters" covers the heroic work done by the Red Cross in times of national disaster.

The American Red Cross was organized in the United States in 1881. Its activities have expanded, until at the present time, it has a total of 3,700 chapters and is prepared to render aid in almost any type of emergency. The scope of the Red Cross work is indicated by the following services: Disaster Relief, War Service, Public Health Nursing, Home Hygiene and Care of the Sick, First Aid and Life Saving, and Home and Farm Accident Prevention.

All of the work carried on by the Red Cross, is financed by voluntary contributions. All newspaper advertisements, radio programs and most of the work is freely donated. In the last year, over \$10,000,000 was spent for relief work of various kinds.

The work at Armour is being carried on under the direction of William Yeager.

Reed Lectures on Use of Matrices at 11:30 Today

This morning at 11:30 in 217 Chapin, Professor Reed will lecture on "Matrices in Electrical Networks." He has published research papers in the *Journal of Electrical Engineering* on this subject. Matrices occur throughout modern mathematics, but have just recently been applied to electrical networks. Illustrations will be given of the application of matrices to electrical networks.

Last Friday, Professor Reed lectured on "Heaviside's Operational Calculus," pointing out that the "P" operator and the "I" functions do not satisfy the simple laws of algebra which make this theory very suitable. Professor Reed feels that any problem that can be solved by Heaviside's method, can also be easily solved by such methods as matrices.

Pi Tau Sigma Pledges Six Into Honorary Mechanical

Six men were pledged to Pi Tau Sigma, honorary mechanical engineering, last Tuesday evening, November 8, in the Rho Delta Rho House. Three juniors and three seniors were honored. The juniors who were pledged are Robert S. Kohn, Ralph H. Wagner, and Alvin Winkler. The seniors are James Gilbert Jr., Edward Grabacki, and Robert A. Windblad.

The men were chosen because of their high scholarships and prominence in school affairs. Pledge duties will start immediately.

NOTICE

All students that were enrolled last semester in the physics laboratory course are asked to call for their reports this week.

The Registrar's office has many articles including pens, slide-rules, hats, etc. Any students who have lost any articles are asked to call for them as soon as possible.

Vagtborg Speaks at 'Night Hawk' Meeting

Continuing their well planned program the "Night Hawks," evening school organization, heard Mr. Vagtborg of the Research Foundation speak in Science Hall last Saturday. The topic was "Work of the Armour Research Foundation."

Mr. Vagtborg spoke on the various projects now being carried on at the Research Foundation for the concerns sponsoring the research and gave examples of the results from the projects which have been completed and from those which have reached partial completion.

The Foundation has recently received some new equipment and has rebuilt portions of the research building in order to facilitate new work. A special boiler has been built and installed in the basement which will deliver steam under very high pressures. On the third floor a dark room has been built primarily for use in the x-ray crystallography work. This embodies the novel feature of a dark corridor that permits entrance and exit without the opening or closing of a door or the use of the hands.

Senior Commission Selects All Remaining Committees

Announced by the senior commission last week was the choice of the announcement, commencement, and cap and gown committees. The members of the committees will probably convene together some time this week to elect their chairmen.

The men chosen for the announcement committee are R. E. Dixon, R. I. Jaffee, C. V. Peterson, W. A. Wagner, C. W. Reh, W. A. Ryan, and R. A. Windblad. Chosen for the commencement committee were A. J. Dempsey, M. Ephraim, E. Morris, A. M. Richardson, R. T. Smith, and E. F. Wagner. The personnel of the cap and gown committee is W. B. Buckman, T. A. Clark, L. Strocchia, and Dick Vandekieft.

The men were chosen from a list of names submitted to the commission by those who desired the positions.

Armour Tech News

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

Published Weekly During the College Year
1938 Member 1939

Associated College Press
REPRESENTED FOR NATIONAL ADVERTISING BY
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 Single Copies, 10 Cents Each

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Vol. XXII. November 15, 1938 No. 9

Let's Make It 100%

Disaster! Flood, fire, tornado, hurricane, visit American areas regularly . . . leaving in their wake an aftermath of hunger, sickness, disease, and homeless people. What are these blighted people to do? Who is to help them? Everyone knows that the Red Cross organization invariably comes to the fore with medicine, shelter, food, nurses, doctors, clothes and all the other necessities that these unfortunate people require.

This magnificent humane society carries out many more services to the American people besides disaster relief. These are war service, public health nursing, home hygiene and care of the sick, first aid and life saving, and home and farm accident prevention. It is probably the most worthy of the many organizations supported by public contribution. Naturally the Red Cross requires huge sums to carry out its great work. Every year, starting on Armistice Day and concluding on Thanksgiving Day, it conducts a national membership drive. It is during this period that most of the Red Cross funds are contributed.

Armour is to have its own membership drive in connection with the national drive. In a booth which is to be set up in the lobby of Main, enrollments on the Red Cross roll call are to be sold. It is the earnest desire of those conducting the drive that Armour's enrollment be one hundred per cent.

Memberships are of two classes . . . the official roll call costing one dollar, and the voluntary roll at any sum from a penny up. It makes little difference what roll is joined as long as all that can be spared be contributed. It's a great cause, let's make Armour one hundred per cent members.

The Slipstick

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

Since the installation of the new Wage & Hour Bill by the government I have been forced to cut down my work in half (One half of nuthin' is nuthin') and hire a new stooge. And so it is with great pleasure I introduce you to Eee Gee. Carry on.

A virgin born, a virgin died,
For her life held no terrors,
And on her tombstone thus inscribed
These magic words placed side by side:
"No runs—Not hits—No errors."

Bill: When I squeeze you in my arms like this, honey, something within seems to snap.
Marion: Pardon me a moment till I fasten it again.

While giving a startling performance, a magician spread a blanket over a newspaper and proceeded to read through the heavy woolen cloth.

All the coeds in the show got up and walked out.

Armour Prof: Will you men please stop exchanging notes in the back of the room.
Joe G: Them ain't notes. Them's dollar bills. We're shooting craps.
Prof: Oh, Pardon me.

"You are the first girl I ever kissed, dearest," said Joe College, as he shifted gears with his foot. (Ed's Note: Of course Joe was fighting his cigarette.)

"Lying there alone in my room I sobbed out your name—Mr. Gookenstein—Mr. Oscar Gookenstein."

Remember way back when Armour played touch football?

We point with pride to the purity of the white spaces between our jokes.

"Mmmmm, but that popcorn has a heavenly smell!" she exclaimed as they drove past the stand.
"Hush! it!" he agreed. "I'll drive a little closer to the next one."

Only 40 more days until Christmas!

If all sleeping Armourites were placed end to end, they would be much more comfortable.
Pardon me while I turn over, Zzzz Zzzz Ssss

The Town's Best

By BERNARD STERNFELD

IN THE PICTURE DEPT: It does the old heart good to know that the Oriental, which has been dark for almost a year, will break into the movie section again this Friday. They've a nice line-up for the opener. On the screen will be a first Chicago showing, "Vacation From Love," featuring Dennis O'Keefe and Florence Rice. The stage show will be headed by Freddie Bartholomew, the kid star, and the erstwhile State-Lake theater maestro, Verne Buck, is taking over the Oriental orchestra. It's a good bill and worth the admission, which is bound to run below the United Artists and Chicago prices.

And a gentle reminder to all you lovers of the higher arts. That wonderful artist, Gypsy Rose Lee is still showing (?) at the Palace. A word to the wise . . .

IF YOU ARE READING: Satevepost of Nov. 12 is 5c worth what this country needs in the way of reading material. There's a razor keen satire Model Memoirs by Stephen Leacock. There is another Everett Rhodes Castle yarn concerning the latest adventures of that old con man, Col. Humphrey Flock. Couple these with MacKinlay Kantor, Octavius Roy Cohen, and Ben Ames Williams, and you have your nickel's worth!

Ken magazine is featuring some

football action pictures in addition to their regular setup. Look it over . . .

A MUSEMENT ODDS AND ENDS: A crate of big yellow lemons to that so-called night club on Skokie Valley Road for small time check chiselling, for swell labelled food, and service to match. Contrasting, is the genuine hospitality as dished out by a big league night spot, frinstance the Chez Paroe.

NEW PERSONALITIES: Charley McAleer coming up fast in the acting end of the players' ranks. This big '41 owns one of the best speaking voices in these parts. His last start was in "The Sign of the Cross" presented early last semester, when he turned in a workmanlike performance. Right now, he's featured in "Journey's End" in a difficult role. Tab him as a sure shot! . . .

IN THE SPORTS WORLD: No alibi for last week's interfraternity sports forecast flopper. Hope these hunches make up for it: Northwestern over Notre Dame, Minnesota over Wisconsin, and Ohio over Michigan. Incidentally, the N.U.-Irish game figures to overflow Evanston. You might save yourself for the Illinois-Chicago game.

The Hawks are back in town again. They'll be beating up on the N. Y. Rangers this Thursday eve at the Stadium. Look's like another banner year for the champs.

Teacher: If you subtract fourteen from one hundred sixteen, what's the difference?
Tommy: Yeah, I think it's a lot of foolishness, too.

A housewife up the street is looking around for a new maid. The last one she had handled China like Japan.

Encyclopedia a la Armour
Quote—an article of clothing.
Pence—what the freshman without a green hat hasn't any of.
Grudge—a place to keep an automobile.
Acquire—church music makers.
Nerts—people in a hospital of which red-heads are the best.
Buddah—stuff bread tastes bum without.
Viper—closest thing to a wind-shield.

"There goes another pupil," sighed the professor as his glass eye dropped on the floor.

Advertisement: Don't kill your wife! Let one of our washing machines do the dirty work.
Gran' pappy: Hey, fix my breakfast!
Gran' mappy: Whaddya want, paw?
Gran' pappy: Gallon o' cawn liker, a big steak and my pet hound-dog.
Gran' mappy: Tha houn-dog? Whaddya want him fer?
Gran' pappy: Tuh eat tha steak!

Lives there a man with soul so dead
Who ne'er unto himself hath said,
As he stubbed his toe on the edge of the bed,
?*(?:?)?!*&!

Eee Gee.

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.

THETA XI

The Halloween party held a week ago Saturday at the Theta Xi rooms was well attended. From the comments and joyous frolics expressed, every one had an enjoyable evening and are looking forward to the coming of their Thanksgiving party.

An alumni smoker has been announced for Friday evening, November 18.

It has been learned that the brothers of Theta Xi received a card from Joe Sodaro, who graduated last June. Since his graduation, Joseph has had quite a yearning for travel. This yearning has been fulfilled by his position as a radio operator on an ocean liner. He recently left the Gulf of Mexico to sail up the east coast of the U. S.

PI KAPPA PHI

One of the largest card party attendances by a fraternity house here at Armour, was realized by the Pi Kappa Phi house. It was the occasion of the Mothers' club card party at which 148 attended.

Pledge J. Russell Freedain has been selected to be the master of ceremonies for the pledge dance, scheduled for November 18.

Material for the ping pong team is being selected by means of an elimination tournament.

Pavel has high hopes of developing a team with sufficient skill to retain the cup for the Pi Kaps.

Pi Kappa Phi extends congratulations to Brother Laskowski on his initiation to Beta Omega Nu.

KNOW YOUR PROFS

Mr. Krathwohl

I have a feeling that there is a word in the English language that describes him, but I've chased it through the dictionary, and it ran out the other end, uncaught. But maybe I can do a better job by telling what he has done. As a linear equation is determined by two conditions, and a quadratic by three, so the equation of a human personality (of the fifteenth degree and nine-dimensional) is determined by N conditions, which I will now give. Any one who finds the equation from these can turn it in to his mathematics professor as a substitute for the final exam.

Harvard Graduate

Doctor Krathwohl has been here since 1914. He received his college education, and an A. B. degree, from Harvard College in 1907, after taking a four year course in three years. Here he won Second Year Honors in mathematics, in which subject he specialized, as well as in physics, chemistry, and education.

Previous to his college terms he had learned the profession of designing lenses, and returned to this profession for one year, after he had graduated, working for Bausch & Lomb Optical Company. After this he started teaching, beginning at Barnard College, which is the women's liberal arts college of Columbia University, in 1907.

In 1910, he received his M.A. degree in mathematics from Columbia University. He then taught at Washington University for a year, and followed this with a year and half of study at Chicago. Having presented a dissertation on *Modular Invariants of Two Pairs of Cogredient Variables*, he received his Ph.D. degree here, and then went to Ripon College to teach for a year. From there he came to Armour.

Book Used at Annapolis

He is a co-author of Palmer & Krathwohl's *Analytic Geometry*, which has been used every alternate three years at the Annapolis Naval Academy, ever since it was published. The only reason the academy doesn't use it through the other years, is that they are required by law, to change the books every three years. As the author of the article, "Are You Happy With Your Work?" which appeared in the *Armour Engineer* of December 1937, he has received responses from "every section of United States and Canada."

Of the last four summers, three were spent by Dr. Krathwohl in studying psychology, psychiatry, and educational tests at the University of Chicago. In this connection, he has procured an Illinois State Teachers license, and can teach in any public school in Illinois except in Cook County.

Dr. Krathwohl is a member of the American Mathematical Society, the

Society for the Promotion of Engineering, the National Council of Teachers of Mathematics, the Central Association of Teachers of Mathematics and Science, and the Harvard Club of Chicago. He has also been president of both the Illinois section of the Mathematical Association of America and the Men's Mathematics Club of Chicago. He is, as well, secretary of the Nu Field chapter of Phi Delta Kappa, the honorary professional educational fraternity. His most recent article appeared in the *Journal of Engineering Education*, which was entitled "Methods of Effecting Better Co-ordination between Mathematics and Technical Engineering Courses."

Hobby Is Study

He is listed in *Men of Science*, *Who's Who in Education*, *Who's Who in Engineering*, and *Who's Who in Chicago*, and his interests are three: MUSIC, (having played the piano as long as he can remember), BOYS (a member of the camp committee of the Hyde Park YMCA), and STUPID! The latter, strange as it seems, is his hobby, and he explains it by saying, "There is so much to learn in this world that one cannot live long enough to learn all he wishes to know."

Now for the last condition. He was Assistant Professor at Armour from 1914 to 1919, Associate Professor from 1919 to 1931 and has been Professor of Mathematics from 1931 to date. This year he is also director of the new department of educational tests and measurements. Now, at last, our equation is uniquely determined. Have you found it?

Scarab Fraternity Honors Van der Rohe, Rodgers Hilberscheimer, Peterhans

The Armour chapter of Scarab had its monthly dinner-meeting last Wednesday at the Normandie House on Chicago Ave. It was the largest meeting of the current year.

It was a dinner in honor of Prof. Mies van der Rohe and his associates at Armour. Among the notable of Armour's faculty present at the meeting was President Heald, Dean Tibbals, Prof. van der Rohe, Profs. Rodgers, Hilberscheimer, Peterhans, Dornbusch, and Mell.

President Heald gave a short speech. President Richardson of the fraternity presented Profs. Mies van der Rohe, Rodgers, Hilberscheimer, and Peterhans with honorary memberships in the architectural fraternity.

Prof. van der Rohe expressed his thought that closer association of students with faculty was a great asset. Informal conversation followed the presentation.

OL' JUDGE ROBBINS

TRAILER TRIP

WHAT'S THIS — A LETTER FROM ONE OF YOUR HAND — SOME ADMIRERS?

IT'S FROM JACK, THE BOY WE MET IN CALIFORNIA. HE SAYS HE HOPES TO SEE US AGAIN

HM-M! I DETECT A RIVAL

ARE YOU SURE HE'S ANXIOUS TO SEE BOTH OF US?

NOW DON'T TEASE, DADDY! HE WANTS TO SEE YOU TOO. LISTEN TO THIS—

I WANT TO THANK YOUR DAD ALL OVER AGAIN FOR INTRODUCING ME TO PRINCE ALBERT. P.A. HAS BEEN MY PIPE PAL EVER SINCE!

OH, A P.A. SMOKER! WELL, I'VE CHANGED MY MIND ABOUT THAT CHAP ALREADY

NOW, ED, YOU'RE THE ONE WHO'S TEASING

NOT AT ALL! A FELLOW WHO APPRECIATES PRINCE ALBERT RATES AS HIGH WITH ME AS THE MAN WHO INTRODUCED HIM TO IT

WELL, I THINK SOONER OR LATER JACK WOULD HAVE DISCOVERED P.A.'S EXTRA MILDNESS FOR HIMSELF

I'M GLAD I STARTED IN WITH A GRAND TOBACCO. PRINCE ALBERT PACKS RIGHT FOR COOLER, MELLOWER SMOKING—IT'S THAT SPECIAL CUT! THERE'S NO OTHER TOBACCO LIKE P.A.

SMOKE 20 FRAGRANT PIPEFULS of Prince Albert. If you don't find it the mellowest, tastiest pipe tobacco you ever smoked, return the pocket tin with the rest of the tobacco in it to us at any time within a month from this date, and we will refund full purchase price, plus postage.
(Signed) R. J. Reynolds Tobacco Company, Winston-Salem, North Carolina

Copyright, 1938, R. J. Reynolds Tobacco Co.

PRINCE ALBERT THE NATIONAL JOY SMOKE

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

Jr. Chems, Sr. Mechs Ousted; Clear Title Path for Champs

Junior Juicers and Mechs Form Bar to Second Title for Chems

Five eliminations and two upsets in a week's play of the touchball tourney smashed the guesser's predictions and threw the race for the championship practically into the lap of the Senior Chems. Now only the Junior Mechs and Junior Elects, the other undefeated team, remain to offer material resistance. The Soph Mechs and Soph Fire-protects also were left in the tourney by the close of last week.

The hitherto undefeated Senior Mechs pulled a surprise by dropping two games in one week—to the Senior Chems and the Junior Juicers. The big upset occurred on Wednesday when the Soph Mechs came through with a 12-8 victory over the second favorites, the Junior Schmiers.

JUNIOR CHEMS BOUNCED 12-8

In an upset that rivaled the Carnegie Tech-Pittsburg classic the demon Soph Mechs broke the spirit of an ailing Junior Chem team and went on to win 12-8 last Wednesday.

It was the Juniors that scored first, and this first score was a matter of four downs after the kickoff. After Sher had returned the kickoff to midfield, a long pass was good to the Mech's ten yard line. On the last down, a short pass over the line was snagged by Fahey, who made a great leaping catch. The extra point pass was batted down.

In the middle of the first half, Knorring made a quick stab at Brown's long pass, and brought the ball to the Chem's five yard line, from where the tying points were scored.

After five minutes of playing in the second half the Mechs advanced to within fifteen yards of the Junior's goal after Brown had made a dazzling return of a Chem punt. Rusanowski then worked back of Grigas just in time to snare a pass from Knorring for the winning points.

Later on Fahey broke through to smear a Soph lateral and tag Reh for a safety. During the remaining minutes of play the Chems controlled the ball, but were unable to push across a touchdown, thus losing the game and championship chances.

SENIOR MECHS LOSE FIRST

After holding the Senior Chems to a scoreless half, the Senior Mechs finally succumbed to a vicious second half attack and lost 14-0 last Tuesday.

Near the end of the half, Miller intercepted a chem pass and returned it to the Chem's fifteen yard line. After a few plays Rothenberg intercepted a flat pass to halt the assault.

Realizing that their championship desires were being contested, the Chems started the second half with a bang. Kruse grabbed the kickoff and ran up to midfield. Then a few plays later Rothenberg received a pass from Adeszko and ran over for a touchdown. A pass from Rothenberg to Lyckberg was good for the extra point.

With about a half minute left to play in the game, Rothenberg dropped a long pass into Kruse's arms for the final touchdown. An Adeszko to Rothenberg combination clicked for the extra and final point.

ELECTS STILL UNDEFEATED

Maintaining the same fighting spirit that has carried them along so far, the Junior Electricals remained undefeated when they outran the Senior Mechanicals, 6 to 0. The defeat eliminated the Seniors who had entered the week with a perfect record. As a result of their victory, the juicers will meet the Senior Chems this week in what should be the semi-finals. This game will be played today at 12:20.

The Elects scored early in the game when Shaver ran over on a quarterback sneak around left end. Damm started the juniors on their way when he intercepted a pass from Miller to Clark.

On the next play, Rehwaltd dropped back and threw a pass presumably meant for Shaver, deep in the secondary. Oldenburg cut across short, took the pass, and outran the entire mech team until caught by Vandekieft on the two yard line. Rehwaltd then passed to Shaver in the end zone, but Dan was out of bounds. On the next play, Shaver took the ball from center, and with

This Week Determines Touchball Winner

Before the week is finished the touchball champion of the 1938 season will be crowned. This is the hope of the outlined schedule which leaves the completion by Friday up to the Senior Chems.

Yesterday the Junior Mechs, appearing stronger with their full team back, were to meet the Soph Mechs. Today at 12:30 the two undefeated teams, Junior Elects and the Senior Chems, are pitted against each other. Due to the fact that both teams can lose two games today's game will not eliminate either team but should give a key as to the probable winner of the tourney.

Tomorrow the winner of today's game will probably prove to be too strong for the Soph Fire Protects and hand them their second defeat.

Thursday's game will be the game which will decide definitely just who will clash in Friday's final.

beautiful blocking by Oldenburg and Rehwaltd, went around left end for the score. Rehwaltd took out Miller perfectly on the play and in doing so removed the last obstacle in Shaver's path.

The Mechs came back a few plays later when Clark completed a thirty yard pass to Biddle, but with three downs to make fifteen yards, they were stopped. The Mechs again failed to score in the second half.

SOPH FIREMEN WIN 6-0

Scoring early in the second half on a long pass from Lange to Larsen, the Soph Fire Protects were able to hold the Flat Foot Floogies scoreless to win 6-0, eliminating the latter team from the tourney.

Relying on short passes, the Frosh threatened the Firemen's goal early in the first half but the needed scoring punch was lacking and their efforts went for naught.

However, using a new stratagem, a spread play, in which every man is used as a potential receiver and

the opposing line is allowed to charge unhindered, the Sophs scored their lone tally. The pass for extra point was grounded.

Unable to come back and score or even threaten their elders' goal the Floogies fell as the score remained unchanged.

JUNIOR ELECTS DROP RATS

By overcoming the Freshmen Rats for the second time during the season, the Junior Juicers were able to eliminate the first year team from the tourney. The electricals showed strength in holding the Rats scoreless while they themselves came through with 19 points.

Starting out with a rush the Juicers rang up 12 points in the first half. Damm received a short pass from Rehwaltd in the opening of the first half to give the Elects a six point advantage.

Later in the half the victors struck again on a short pass, this time from Rehwaltd to Shaver. The Rats were not able to display a strong enough offense to match the Juicer's brace of points.

The third year men found the going a little more difficult in the second half, but were able to put across one more touchdown. Horn accounted for the third touchdown of the game by snagging a pass over the goal, after which the squad scored its only extra point of the game to win 19-0.

JUNIOR MECHS WIN 26-6

"Red" James, Leo Wolniak, and the rest of the Junior Mechanicals forgote that Friday was Armistic day when they declared war upon the Phi Pi Flashes. The result of the "hostilities" gave them a 26-6 victory over the frosh team.

Wolniak, the junior's star hurler, passed a long one to James for the first score. Wolniak, shortly afterward, threw a high pass back of the goal and Joe Esterle, who blocked the pass, hit it into Frank Lasker's hands to swell the score to 12-0.

The Frosh then kicked and Claude Bakus, who rocketed down the field, grabbed the ball on the Junior 10 yard line. The ball was declared a free ball and it was therefore the Flashes' ball at this point.

Joe Esterle, the boy who did some swell kicking and passing, showed his



By H. R. COYLE

Jesse Kremer of the book-store has agreed to be the local arbiter of the Junior Chems. It is apparent that the boys cannot win when they all want to be the head cheese. . . . A bit irregular and pitiful for a football huddle was that for the final play of last Wednesday's game. Loudest of all six voices, Herb Sher: "Aw, come on Grigas, I've got a play that'll work." Joe Grigas: "O. K.—you work it, I'll watch!" . . . In the future Jesse will decide who plays what when the boys enter intramural sports.

* * *

Ralph Tullgren last week stated a challenge by the Delta Tau Delta champs to the winners of the interdepartmental tourney for the right to play in the Chicago playoff. This we gladly publish, especially as we were ready to suggest such a game ourselves. . . . The Senior Chems would be influential in preventing a game, however, as their eyes have been focused on the local honors for some time. Most of all, they promoted the U. of C. game and are fostering the idea for themselves.

* * *

The Delts comprise a better football team. Composed of all experienced players—including a Notre Dame B team man of last season, Puhl, also Bill Scherer of all-state prep fame—the Delt squad would mow down the seemingly impenetrable defense of the Seniors. Should, however, both teams train according to the "basketball" style of play used on the Midway, described on this page, the two teams might compete equally under the revised rules.

stuff as he faded back 40 yards and dumped one to Bill Benton, who peeled it off the fence for the score.

Wolniak's arm limbered up and in the closing minutes he threw two more touchdown passes.

"Ouchball" Never Like This! U. of C. Boasts Different Style of Grid Play

No blocking, passing all over, seven man team are the principal features of the type of touchball played by the University of Chicago. Due to the impending game between the Armour champs and the best team of the Midway, an investigation was made of some of their major rules.

It became apparent that controversy is sure to arise. In regard to the blocking item, the U. of C. rule tends more to prevent injuries than the legalized murder rule at Armour. The Maroons prohibit body blocking, allowing only what they call screening. The offensive player simply stands in front of his defensive opponent and prevents his progress by keeping in his way. He may not leave his feet in any way to block his adversary.

The passing all over rule exists due to the length of the field which is regulation football size, 100x40 yards. Forward or lateral passes may be thrown from any position on the field. This rule prevents rapid rushing as the offensive player may rush by the defensive rusher and become another potential pass receiver. It becomes apparent that a man for man defense is the best check on this style of play.

With seven man teams most Mid-

way squads use a 2-3-2 defense while some have adopted a 1-3-3 style of play.

At present the U. of C. is engaged in the semi-finals of its tournament. The league is divided into three sections and the champs of these sections are playing each other. The three divisions are dormitorial, fraternal, and independent. This latter is made up of the departmental teams and pick-up teams. Some are the Jailbirds, Broadmen, Rinky-dinks, the Law school, and the Med school.

A discussion with several senior chemicals brought out that should they win the tournament, several of these points will be ironed out, especially the pass rule.

Tau Delts Vanquish Rhos; Stay Champs

With two victories this year, and last year's championship to support them, Delta Tau combined with an icy blast, to freeze out the Rho Delts 12-0 for interfraternity touchball honors.

Despite Rothenberg and Jaffee's brilliant play, the Rho Delts were stopped by the Delt steamroller deep in their own territory. After three attempts, Puhl received a pass and dropped into the land of milk and honey for the first six points.

The Rho Delts had a good offense, but the Tau Delts showed a better defense, and consequently the Rho Delts see-sawed back and forth, pitting Rothenberg and Epstein against Scherer, Tullgren, and Puhl.

A pass from Rothenberg looked plenty good until Scherer intercepted and ran the ball to the fifteen yard line. Suthers, broke loose and with a mighty effort pulled down six more points.

Before the Rho Delts could recover, the purple tide had again surged down on the now listless Rhó Delts. Had the field been two inches shorter, Scherer two inches longer or Clay De Ment near sighted the game might have come up to the Delt predictions.

TOUCHBALL STANDINGS						
	W	L	T	Pct	P	OP
Senior Chems	5	0	0	1.000	104	10
Junior Elects	4	0	2	1.000	57	10
Junior Mechs	4	1	0	.800	76	40
Soph F.P.E.	3	1	0	.750	32	23
Soph Mechs	2	1	1	.567	14	27

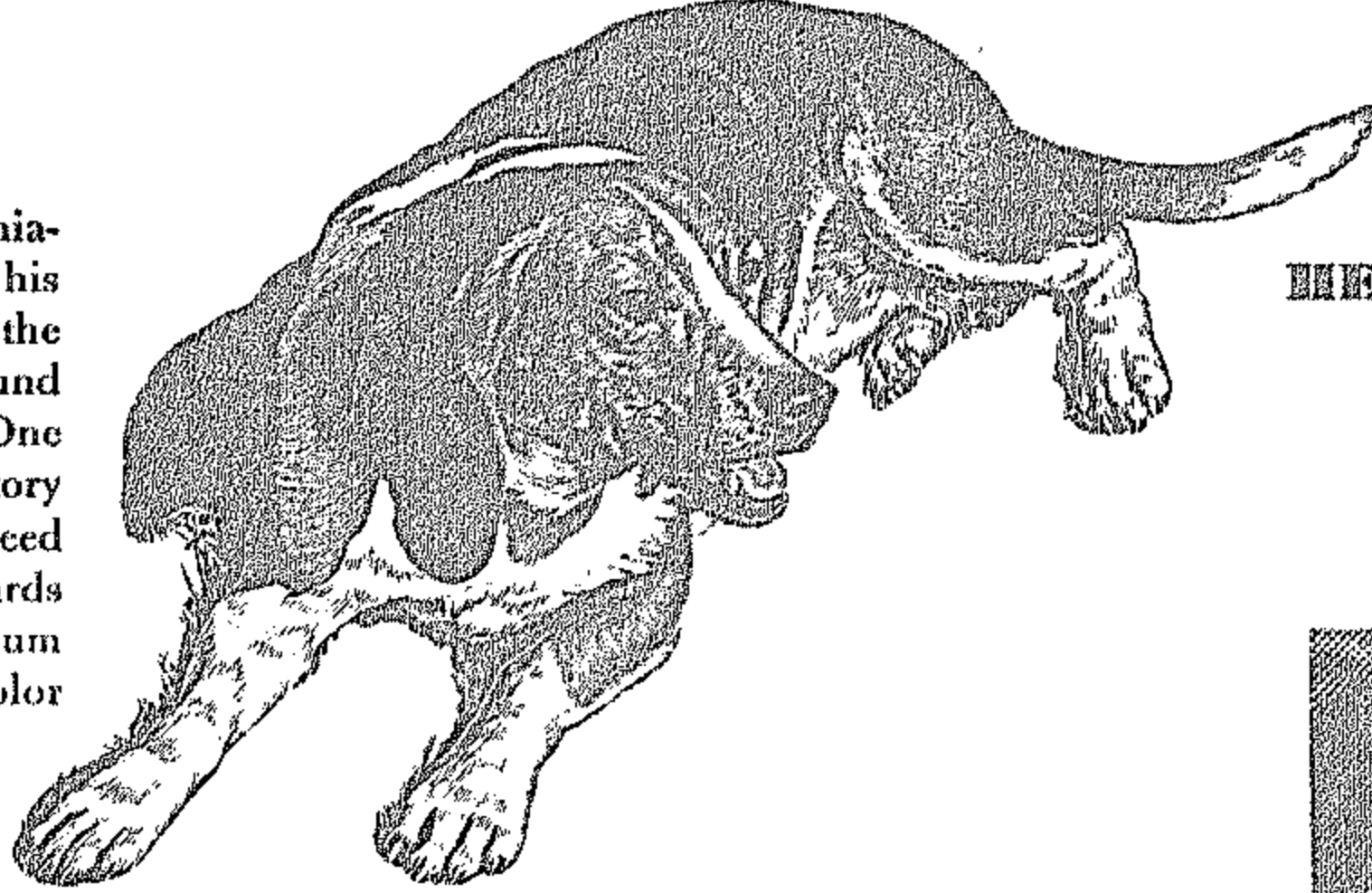
TOUCHBALL SCHEDULE

Monday*
Junior Mechs vs. Soph Mechs
Tuesday
Seniors Chems vs. Junior Elects
Wednesday
Soph Fire Protects vs. Tuesday's Winner
Thursday
Monday's Winner vs. Tuesday's Loser
Friday
Wednesday's Winner vs. Thursday's Winner
* All games are scheduled for 12:20.

YOUR WILL-POWER...THE MODERN HAZARD TO YOUR NERVES

BEAGLE HOUND

English fox-hound in miniature. Solid and big for his inches, true beagle has the long-wearing look of the hound that can last in the chase. One of the oldest breeds in history—close to the original breed of hounds. U. S. standards specify 15 inches maximum height—any true hound color acceptable.



HE'S GIVING HIS NERVES A REST....

AND SO IS HE

THE frazzling pace of these fast-moving times doesn't mean a thing in the life of the dog. Although his complex, high-keyed nervous system closely resembles our own, when the dog feels his nerves tire he settles down—relaxes—as the beagle hound above is doing. That is instinctive with the dog. We are not so likely to break nerve tension before it gets our nerves upset. We drive on. We worry. Ambition and determination push us on and on...past the

warning stage of nerve strain. Will-power silences the instinct to...pause and rest.

And yet jittery, ragged nerves are a distinct handicap. Don't let your nerves get that way. Learn to ease the strain occasionally. Let up—light up a Camel! It's such a pleasant, effective way to rest your nerves—a brief recess, mellow with the pleasure of a Camel's mildness and ripe, rich taste. Yes, no wonder smokers say Camel's costlier tobaccos are so soothing to the nerves.

They've learned, as millions have, to give nerves relief...they

"Let up—light up a Camel"

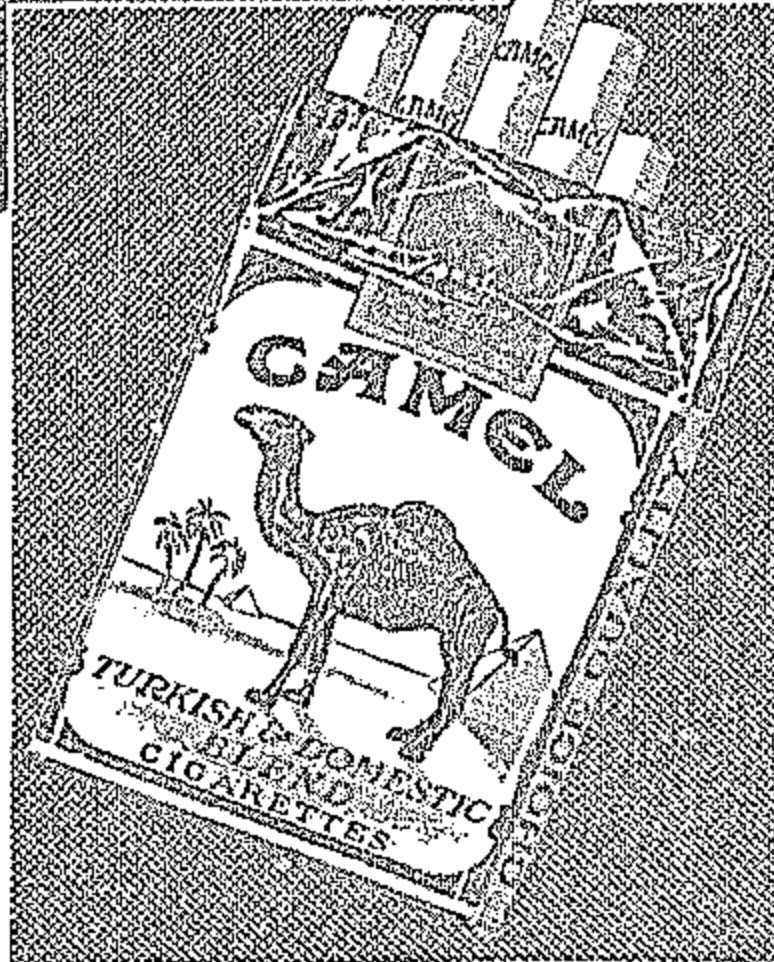
EDDIE CANTOR—America's great comic personality in a riot of fun, music, and song. Each Monday evening—Columbia Network. 7:30 pm E.S.T., 9:30 pm C.S.T., 8:30 pm M.S.T., 7:30 pm P.S.T.

BENNY GOODMAN—Hear the King of Swing, and the world's greatest swing of Swing, and the world's greatest swing of Swing, each Tuesday evening—Columbia Network. 9:30 pm E.S.T., 8:30 pm C.S.T., 7:30 pm M.S.T., 6:30 pm P.S.T.



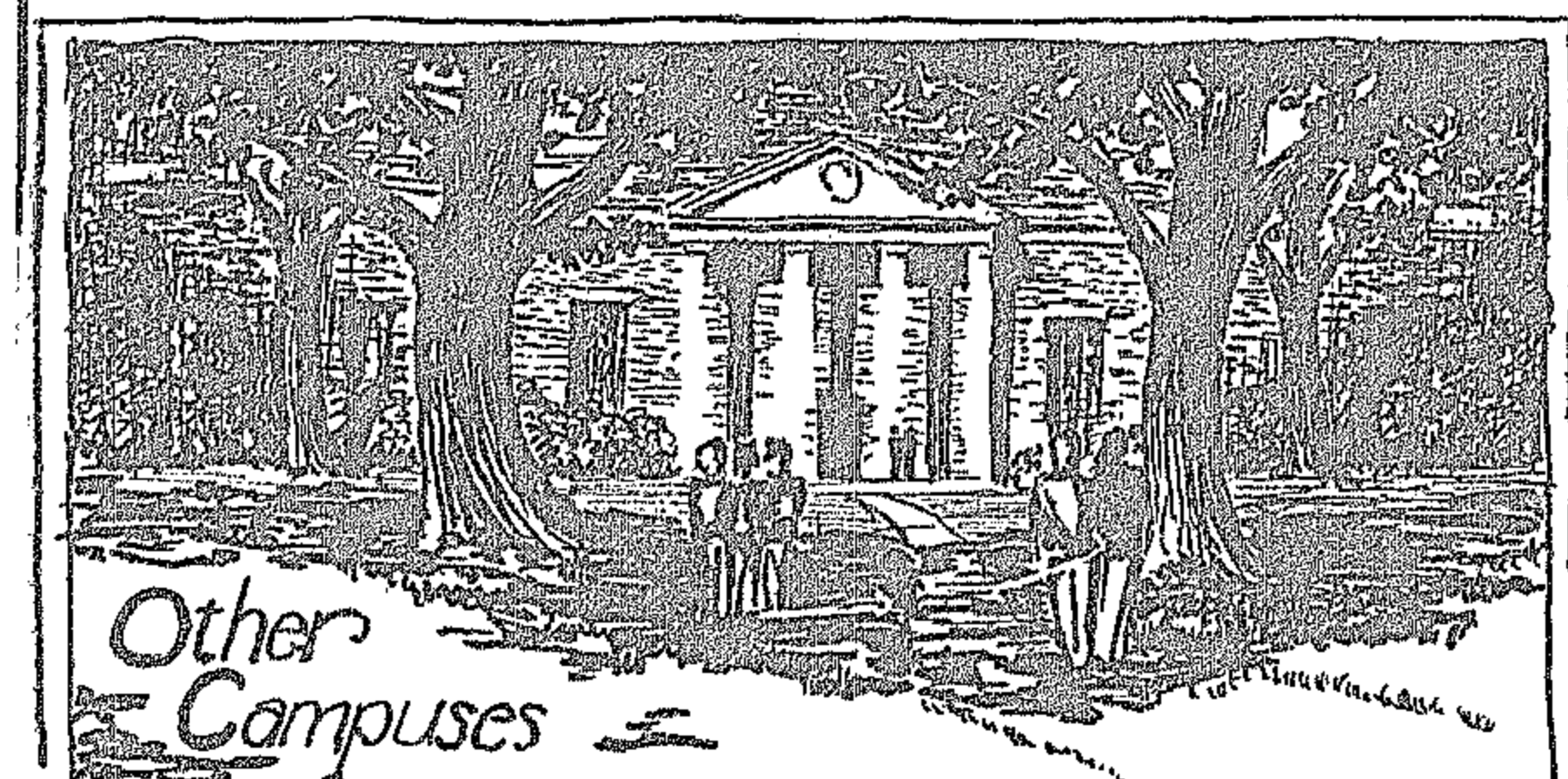
In the heart of the Congo, Leila Denis (left) and her explorer husband filmed Universal Pictures' epic, "Dark Rapture." Camels were an important item in Mrs. Denis' 42,000-mile trek. She says: "Such ventures can be quite nerve straining, but it's my rule to pause frequently. I let up and light up a Camel."

Smoke 6 packs of Camels and find out why they are the LARGEST-SELLING CIGARETTE in America



LET UP—LIGHT UP A CAMEL!

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



By JAMES HEBSON

Dr. Malone W. Graham, professor of political science on the Los Angeles campus of the University of California, has received decorations from the Republic of Lithuania and from Finland, in recognition of his published work.

Of 636 students at Mills College 210 are undecided as to their major. Largest group of majors is in the field of art, with music a close second.

Funds for erection of Silliman College, the tenth at Yale University under the college plan for undergraduate residence adopted 15 years ago, have been provided by a bequest of Frederick W. Vanderbilt, who died recently.

To help World Fair employees in impressing visitors next year, Dr. Walter O. Robinson of St. John's University, Brooklyn, is conducting a course in grammar and diction for the administrative officers and guards.

Construction of a \$260,000 auditorium will be started on the Tulane University campus soon, Dr. Rufus C. Harris, president, has announced.

Pennsylvania State College authorities are considering an astronomical study project that calls for construction of nine campus observatories.

University of Michigan astronomers have taken pictures of calcium flames shooting 600,000 miles above the surface of the sun.

The campus tradition of classroom singing has been revived at the University of California.

POLAROID—

(Continued from page one)
based on the fact that this glare is caused by light waves vibrating horizontally in relation to the surface of the object. They skip off this surface as a stone skipped on water and strike the eye as a mirror reflection of the light source. The useful light consists of vertical waves in the same light beam that penetrate the surface of the reading matter or other non-metallic objects, absorb the message of color and detail, and convey it to the eye. When Polaroid is placed in front of a light source with its crystalline structure in a vertical position, all of the light waves emerge in that vertical plane while the horizontal, glare-producing waves are absorbed by the Polaroid.

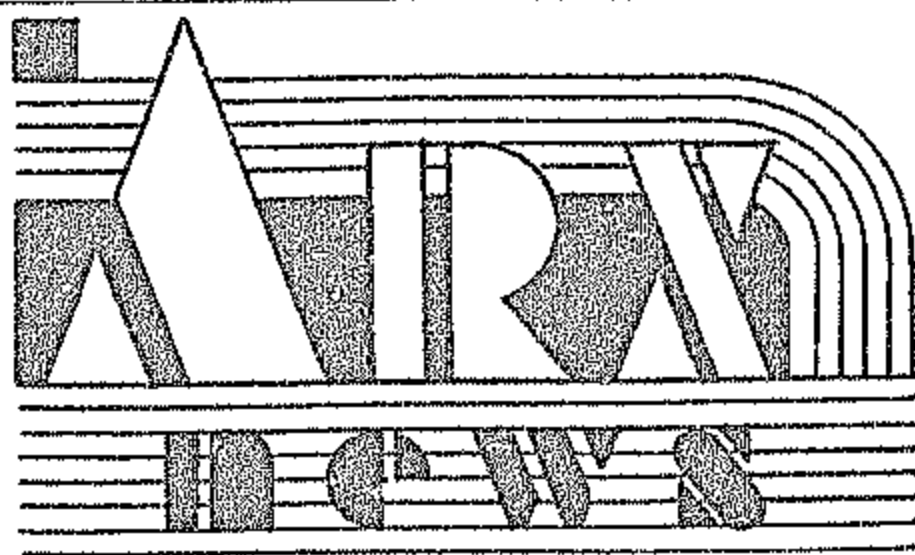
Variety of Colors

Special spectacles were employed to demonstrate three-dimension, full color motion pictures. As is the case in seeing a real object, this set of lenses enabled each eye to see its own picture when two images were projected through Polaroid onto the screen. Thus, the illusion of reality was created and the screen appeared as a window through which the audience looked at people and objects with all the depth and color of the originals.

Colorless sheets of cellophane placed between sheets of Polaroid assumed all the colors of the spectrum and those colors changed completely as one Polaroid sheet was rotated. The color, explained Mr. Wheelwright, is in all normal light which contains every color of the spectrum. This combination of Polaroid and cellophane "sandwich" can break down the colors, capturing and holding them in all their rich beauty. The colors can be controlled by varying the thickness of the central plastic material.

Used in Auto Headlights

In addition to the few applications possible of demonstration in the limited period of his lecture, the scientist advised that more than 800 other uses were listed for Polaroid, notably the elimination of automobile headlight glare. Polaroid sun glasses have been made available to the public in the past year, he said, and these not only eliminate glaring reflections but employ another quality of the material in absorbing the harmful ultra-violet rays that the optical profession regards as most damaging to the eyes.



Enough of the weather, now to get down to the finer accomplishments of last week, namely, the rehearsal of *Ye Soph Arr Chorus* (call me a taxi!) in the cafeteria in the Art Institute. What singing, what songs, what facial expressions, what groaning by *Salzman*; no kidding, you should see the expression *POINTEK* gets on his puss when he fumbles for high C. We understand that this exercising of vocal cords (more like: cables) has been going on for sometime; if you care to try out your new cotton car stops, just waltz down some day around 3:30.

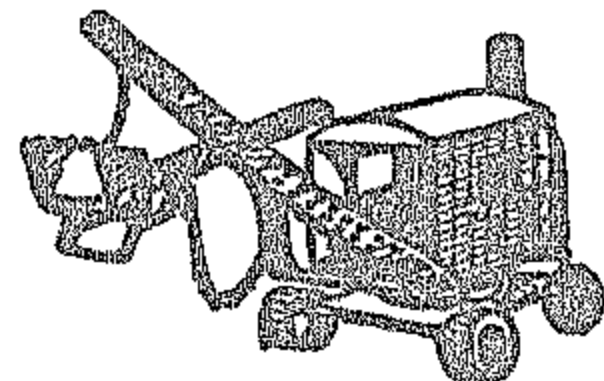
We hear that the juniors have got it all sewed-up as far as their playing the seniors for the championship. It seems as though last Friday, the juniors and seniors had a little tune-up game and when I say little I mean: little! and the juniors won by 18 to 6! My money is on ye juniors. Team line-up: Juniors: Street, Fox, Cerouski. Seniors: Kubicke, Wagner, "Jacobowski."

Viren takes his history hard, he has to rest up all the rest of the week; at home.

News of ye frosh: The long waited for, etc., etc., event: the frosh initiation is coming off Thursday. The sophs have all their plans set; they are expecting to break a record with this initiation, along with a lot of other things. A banquet is to follow the fun.

BOZ-ART.

Steam Shovel



Scoop! (Pardon me—"scoop!") The long awaited event is about to take place. Yes sir, the new Student Union will be ready the Monday after Thanksgiving. The contractors have stated that they are moving out next Friday night.

Midterm flunk notices are about due, hence this fact may account for the worried look on the faces of many would-be engineers.

Ralph Erismann has a moony look on his face lately. Can Mary Goodman of Houston, Texas be the cause of it all? One doesn't carry a picture of a girl in his billfold to take up space (as a rule).

Two writers for this paper were threatened (practically) by BROTHER WINSTON for the article that appeared about him last week in the SHOVEL. "Ha, ha, ha," quotes both, "he can't scare us, n-n-n-no!"

A social and dance (tra-la) will probably be held in the Student Union next month. All youse gals from U.C., N.U., Normal, Vassar and points east, west, north, south, up and down please move (for the dance) to our campus. It's a certainty that the fellows would rather step on a girl's toes than on each other's, which would be the case (absolutely) if they had to dance with each other.



By EUGENE WORCESTER

THANK GOODNESS the national election is over for two years. The rigid diet of communism with our breakfasts as served by "The Worlds Greatest Newspaper" for the past few months has grown extremely trying of our palate. Mr. Orr's provoking front page monstrosities are not contributory to a calm session with

BRIGHTEST REMARK OF THE LAST TWO WEEKS GOES TO BILL GRAF IN PROF PERRY'S VALVE CLASS. THE OLD MAESTRO OF THE STEAM ENGINES HAD JUST FINISHED A LENGTHY SPIEL TO HIS CLASS INTO WHICH BILL HAD HOB-BLED LATE. AS THE GENTLE BREEZE FROM THE OPEN DOOR BLEW ACROSS HIS INJURED LEG, BILL GOT UP FROM HIS FRONT ROW SEAT AND WENT TO THE REAR OF THE ROOM. "WHERE ARE YOU GOING, YOUNG MAN?" BELLOVED PROF. PERRY. "IT'S GETTING TOO WINDY UP HERE," GENTLY REPLIED BILL.

The JUNIOR MECHS touchball team really believes they could beat the pants off the SENIOR CHEMS in a return game. They claim that only one regular team member was in the lineup in the first meeting of the two teams, JACK CLARK, their star back, being laid up with pneumonia, etc., etc. . . .

the toast and coffee. And when the Chicago Tribune spends so much of its efforts denouncing and deriding the reds in Washington and most every state capital, it's a cinch we're either on the brink of revolution or we're being fooled. I plainly think it's the latter. I personally feel we're far closer to fascism, although the latter term is less inciting and its danger more difficult to comprehend than is the conatatine term—communism.

Nor let it be misunderstood. I do not promote or even approve communism. I sternly believe in democracy, social and economic. To find the truth about things we must be permitted to investigate them. Communism thrives on oppression. If we don't want it, let's look into it and educate ourselves as to its undesirability. It's imminence to us is far over played by the Chicago Tribune. That paper would lead its indiscriminate and gullible readers to believe we were undermined with a deadly charge of communistic powder that momentarily threatens to blast us into bloody revolution. This is absurd. The party and its activities are both small and almost innocuous.

NOT ONLY concerning communism, but with reference to every question of nationwide importance and interest, we should demand the facts and permit ourselves to become educated about those forces and institutions that are in the world today. The ultimate ironic settlement of the world's problems comes not through falseness, misrepresentation and propaganda, of which the Chicago Tribune is a flagrant example, but rather through the education of the nation by a policy of truth in her newspaper reporting among other things.

Skillful ... is the word

Skillful is the word that best describes Chesterfield's can't-be-copied blend

It is the RIGHT COMBINATION of mild ripe home-grown and aromatic Turkish . . . the world's best cigarette tobaccos . . . that makes Chesterfield different from all other cigarettes.

And it's the skillful blending of these tobaccos with each other . . . for flavor, for aroma, for mildness and for taste, that has made Chesterfield the cigarette in which millions of smokers find a new pleasure in smoking.

Chesterfield

... the blend that can't be copied
... a HAPPY COMBINATION of the world's best cigarette tobaccos