



Class Averages Released; School Paced by Seniors

Scholastic averages for the entire school have been released by the registrar's office. A. M. Zarem, electrical, leads the senior class with an average of 2.98. The junior class is led by a chemical, H. F. Newman, with an average of 2.89. M. Camras with an average of 2.96 heads the sophomore class, while the freshmen are led by A. F. Norwood with a straight A average of 3.00.

The seniors top the classes in the ratings, followed by the lower classes in order.

Senior class	.....1.65
Junior class	.....1.49
Sophomore class	.....1.29
Freshman class	.....1.12

As can be seen, the senior class has a much higher average than the other classes. This gradual increase in the averages is caused by the dropping out of the poorer students in the lower classes.

Electricals Lead

Departmental averages show that the electricals lead the big three (chemicals, electricals, and mechanicals) with an average of 1.53. The fire protects lead all of the departments with a 1.80 average.

Mechanical Engineering	..1.36
Electrical Engineering	....1.53
Civil Engineering	.....1.21
Chemical Engineering	....1.46
Fire Protection Engineering	1.80
Architecture	.....1.33
Engineering Science	.....1.45

The averages of the first ten men of both the senior and junior class are:

Seniors

Zarem, A. M., E.E.	.....2.98
Ephraim, Max, M.E.	.....2.95
Derrig, Geo. J., M.E.	.....2.93
Loutzenheiser, E. J., Ch.E.	.....2.73
Jacobson, Dan W., FPE	...2.70
Yeakle, Thomas W., FPE	..2.64
Rice, Norman D. M.E.	...2.60
Moculeski, S. J., Ch.E.	...2.57
Janicek, Joe J., M.E.	...2.49
Anthon, Harold S., C.E.	...2.48

Juniors

Henry F. Newman, Ch.E.	..2.89
John Catlin, M.E.	.....2.80
Francis A. Opila, C.E.	.....2.80
Alvin Winkler, M.E.	.....2.78
T. A. Hunter, FPE	.....2.77
Sidney A. Heenan, Ch. E.	..2.76
Donald Sunde, FPE	.....2.74
R. H. Wagner, M.E.	.....2.73
John R. Gerhardt, Sci.	...2.72
Chas. J. Ryant, Ch.E.	.....2.68

Fraternities comprise a large amount of the activities of Armour. The honorary fraternities, which are based on scholastic ability, lead the

(Continued on page four)

Members of Camera Club Hear Student Speakers

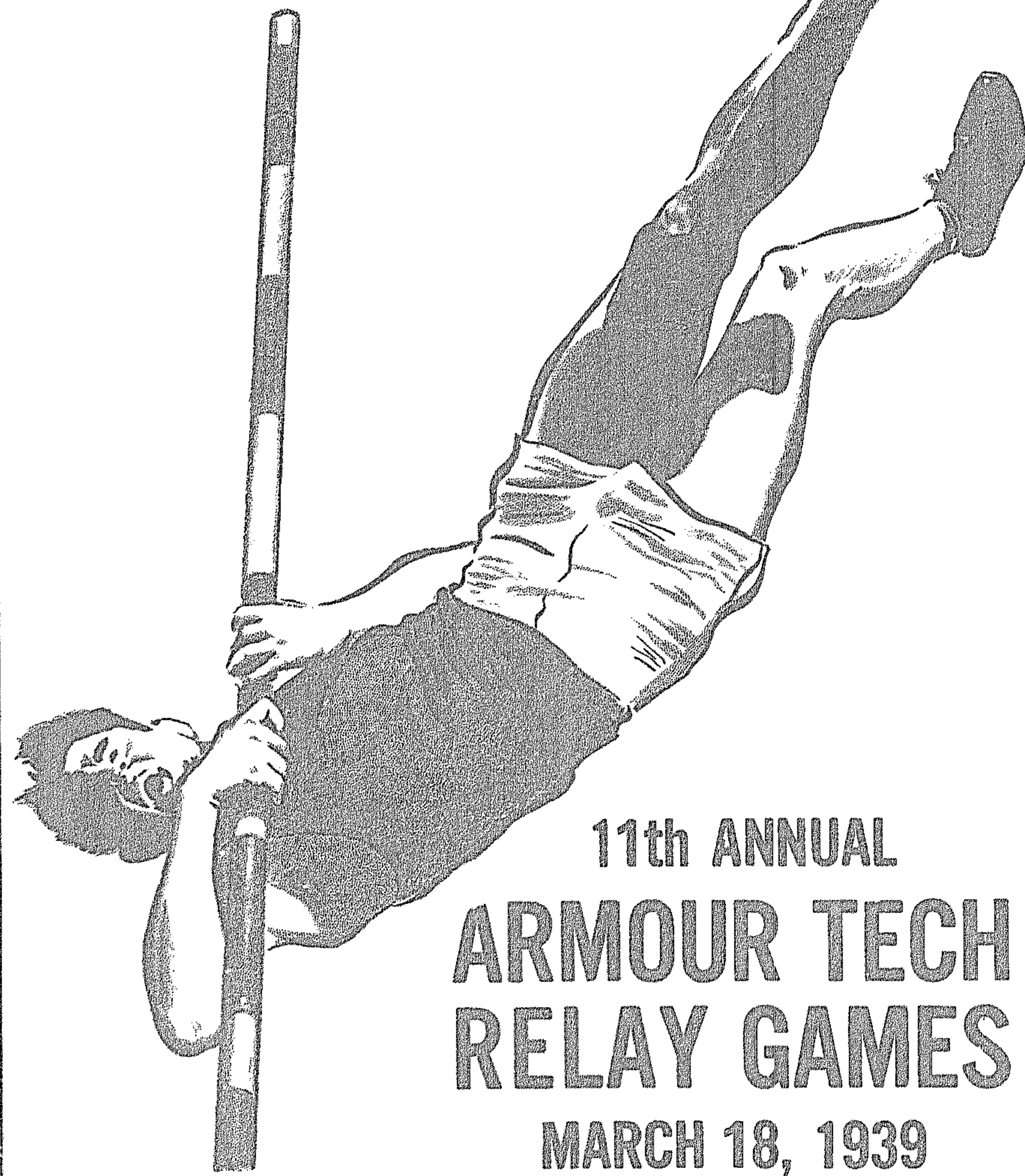
Chinatown played host to the Armour Eye last Wednesday, March 8. The occasion was a group dinner given by the club at one of the more exclusive chop suey houses. After obtaining their fill of Chinese delicacies, the members of the Eye adjourned to their rooms in Chapin Hall where they heard two lectures by fellow members.

First of the evening's speakers was James A. Rummell on "The Construction and Use of Photo-electric Cells in Conjunction with Photography." Rummell described the inner working of the photo-electric cell in theory and practice. The lecture continued with the applications of the photo-electric cell to actual problems in the field of photography.

Donald F. Crego, president of the Eye, discussed the subject "Infra Red Light." During the course of the lecture, reference was made to the fact that excellent photographs can be taken in a perfectly dark room if a hot flat iron has its infra-red rays focused on the subject. The infra red rays, however, must be used in conjunction with a specially prepared film.

A new studio camera built by Conley has been purchased. The camera takes a 5 by 7 inch picture. After the lecture various tests were made with the camera.

U. of C. FIELDHOUSE



11th ANNUAL ARMOUR TECH RELAY GAMES MARCH 18, 1939

Drama, Thrills, Young Ladies, Feature Play

Mystery—suspense—excitement thrills—will be in store for all who are planning to see "Captain Applejack" presented by the Armour Players on the evenings of April 21st and 22nd in the auditorium of the Student Union Building.

This, the second production of the current school year, is a modern play written in an extremely fascinating Arabian Nights entertainment mood and contains much more physical action and universal appeal than would be expected in any other type of dramatization.

Selection of the cast, including the feminine roles, has already been completed, and rehearsals are now under way. Richard Lescher has designed a set which will enable the audience to view all action on the stage from all angles.

After the curtain has been drawn on the final act of the play, the entertainment will by no means be over. Don Charlton and his Armour Tech social orchestra will then swing into action for the dancing enjoyment of all.

The Cast

Captain Applejack	Charles MacAleer
Dennet	Hugo Geissler
Banner	William Zehr
Pengard	Zenon Prance
Lush	Albert Sankowskis
Johnny Jason	Richard Hanneman
Borlaski	Alfred Banas
	Gene Kalin
	Robert Underhill
	Guy Morris
	Alfred Minwegen

The young ladies who are assuming the feminine roles are from the Chicago Teachers College where they have had experience in dramatic arts

(Continued on page four)

Rug Cutters Swing Out At Senior Ball

Techawks will have another chance to enjoy a fine dance in the Student Union because the seniors have planned another open dance to be held Saturday, March 25, at 9:30 p.m. As the first class to hold a dance in the Union, the seniors have set a precedent of holding dances on the campus. An unusual feature of the dance is the fact that the price of a bid will be only one dollar.

After auditioning several orchestras, the social committee, consisting of B. G. Anderson, chairman, T. Collier, I. M. Footlik, W. D. Chapman, R. Kotal, S. J. Moculeski, and E. C. Mitchell, finally selected Don Wallace and his orchestra. With this eleven piece orchestra to supply the music, all who attend are promised an enjoyable evening of dancing.

The senior class is trying to start a series of inexpensive dances in the Union. "We are attempting to encourage more social affairs in the Student Union with prices as low as possible," stated B. G. Anderson, "and still have well-known orchestras."

Future Managers To Hear Talk by Personnel Officer

"How College Graduates Look to a Personnel Officer" is the subject of a talk to be given next Friday, March 17, before the Armour Chapter of the Society for Advancement of Management, by Mason Smith, personnel manager of Marshall Field and Co.

Mr. Smith, who daily comes in contact with a large number of college men, should give senior students some interesting pointers on qualifying for a position.

The student branch of S.A.M. meets Fridays at 10:30 in the West Lecture Room of the Student Union.

Juniors Pick Marshals for Junior Week

On Wednesday noon, March 8, the Junior Commission held its fifth meeting of the year. Members of the commission are L. W. Norkus, J. M. Fahey, and S. A. Heenan of the Chemicals; A. H. Pedersen and J. C. Balsewick of the Civils; H. B. Quandee and D. H. Sunde of the Fire Protects; R. F. Bartusek, C. R. Eulo, and W. J. Yeager of the Mechanicals; E. M. Mandel of the Architects; and K. F. Oldenburg and J. Hartman of the Electricals. Officers are D. H. Sunde, President; K. F. Oldenburg, Vice President; C. R. Eulo, Secretary; and A. H. Pedersen, Treasurer.

The Engineering Science department again asked that they be given the recognition and consideration a distinct department deserves. A motion to the effect that they be allowed to have a Junior Marshal was defeated, the reason being that there are only three students.

The various committees in charge of the department elections of Junior Marshals gave their reports next. Results were as follows: Junior Marshals are; J. G. Eggers, Jack Clark, S. A. Heenan, D. J. Mackey, W. H. Scherer and J. D. Shaver. Alternates elected are Edw. Brannick, J. G. Cerovski, G. E. Damm, Ralph Erisman and L. W. Norkus.

From these Junior Marshals will be chosen the Head Marshal. This Marshal is elected by the entire class. The alternate in the department from which the Head Marshal is chosen automatically becomes Junior Marshal.

Schommer Names Officials For Relays; Announces Special Mile

McCormack Aids Bill For Licensing Engineering Men

With the help of Professor McCormack, chairman of the legislative committee of the Illinois Engineering Council, an attempt will soon be made to pass a bill in the Illinois state legislature requiring the registration of practicing engineers. Many attempts have been made in the past to pass legislation of this sort, but all have met strong opposition, especially from the unions. The present bill, as it is drawn up, is in a form which should eliminate as much of this opposition as possible.

If accepted, the bill will require the passing of an examination and subsequent registration. A similar system has been used in the legal and medical fields for many years.

Many states have some law pertaining to the registration of engineers. This organization of the profession has benefited society as a whole for it has raised the standards of practice and, above all, has offered a method for a more compact organization of the profession. It will undoubtedly also necessitate an elevation of standards of schools of engineering.

Composed of men in many engineering fields, the Illinois Engineering Council was organized about six months ago in the interests of engineering. At the present time President Heald and Professor McCormack are members of the Council.

A.T.S.A. Backs Green Cap Rule

Last Thursday at 3:30 a meeting of the A.T.S.A. board was called to consider several important questions which have come up. The most important of these was the "Green Cap" situation, soon to come into being again. Athletic awards were discussed after the green hat problem, and finally a new rule concerning meeting dates for the A.T.S.A. was adopted.

Each year, on St. Patrick's Day, the freshmen are again requested to replace their "Pots," on the shelf since Thanksgiving. This year the freshmen will NOT wear their hats. This statement is by official order of the dean's office. No enforcement by members of the class of '41 will be tolerated.

Robert Sweeney, the sophomore class A.T.S.A. member, stated that it is the intention of the sophomores not to participate in the annual Junior Week rush if they are not allowed to enforce the wearing of green hats. The statement from the dean stands, in spite of any protest which the class of '41 may make. The institution of Junior Week is much older than that of green hats and has a greater tradition behind it. Green hats were introduced only five years ago, in accordance with the general practice in institutions of higher learning in this country. It was felt that this action would help in uniting the freshman class and in getting them started on the right foot. Since green hats have only proven a "sore thumb" and have been a continual source of trouble in the dean's office, they are being abolished for good. Hazing of freshmen is definitely frowned upon by all of the institute officials.

In adopting the new rules for meetings of the board, the A.T.S.A. made provisions for having definite, periodic meetings. This action was felt to be necessary in order to have a definite, pre-arranged date on the calendar so that all of the members, both student and faculty, can be present. Meetings will now be held once every month in contrast to the calling of meetings whenever it was deemed necessary to have one.

Continuing their string of successful performances, the Armour Musical Clubs will appear before the Rotary Club of Chicago today. This concert is to be held in the Grand Ballroom of the Hotel Sherman at twelve o'clock. Serving as a luncheon club for many of the prominent business men of Chicago, the Rotary Club is one of the most effective connections that the students may have with the city's business men. After the concert, which will close shortly after one o'clock, the members of the musical club will return to resume their studies.

Fenske To Meet Smith Deckard in Feature

All is in readiness and the midwest is waiting for the gun which will start the eleventh running of the Armour Tech Relays on Saturday, March 18 at the U. of C. Fieldhouse. Over thirty schools have already accepted invitations and many latecomers are expected to check in before the final day.

John J. Schommer, chairman of the committee in charge of the games, has obtained a group of capable and experienced officials who are certain to conduct the various events with the greatest efficiency possible. On Mr. Schommer's committee are George Allison, Norman Root, and Al Schreiber.

Prominent Men to Officiate
Chief referee for the games will be, T. N. Metcalf, athletic director of the University of Chicago. J. J. Lipp, noted football official will act as head timer while the post of starter will be held by Dr. W. J. Monilaw. The physician in charge is Dr. J. F. McNamara of Armour Tech.

Outstanding among the judges at the finish are August Pritzlaff, director of high school athletics, Judge Hugo Friend, D. H. Brown, and Grant Stenger. Judges at the high jump are P. A. Macfarlane and Anton Burg. Professors S. F. Bibb and W. W. Colvert will officiate in the pole vault.

In charge of the shot put will be C. J. Plocar and Nels Norgren, Chicago track coach. Bernard Weissman has been selected as a marshal and Al Schreiber and Art Jens represent the press.

Other Officials Named

James Lightbody will serve in the capacity of head inspector being assisted by W. C. Krafft and Jay Wyatt. The clerk of the field and clerk of the course are not definitely known, but they will probably be Harry Frieda and J. K. Andern respectively. Other officials will be known in a few days.

Trial heats, for most of the events, will begin at 4:00 Saturday afternoon with the regular schedule planned for 7 o'clock on through the end. The order of events will be the same as in the past with the exception of the special invitational mile which will be held at the convenience of the participants.

Brisk Competition Indicated

Tommy Deckard and Jimmy Smith, formerly of Indiana have accepted bids to compete against Chuck Fenske in an attempt to break Fenske's mile record of last year. A number of other records will probably fall by the wayside before the meet is over.

Late entries received during the past week include the University of Nebraska, University of Dubuque, Cornell College, and Wilson Jr. College. Others are Kansas State, Vanderbilt, Grinnel, and Carlton College.

The entries are divided into university and college divisions with special events for each. This will tend to bring about a more even balance and will stimulate competition to a much keener point than is shown in many other meets.

Musical Clubs Give Concerts This Week

Continuing their string of successful performances, the Armour Musical Clubs will appear before the Rotary Club of Chicago today. This concert is to be held in the Grand Ballroom of the Hotel Sherman at twelve o'clock. Serving as a luncheon club for many of the prominent business men of Chicago, the Rotary Club is one of the most effective connections that the students may have with the city's business men. After the concert, which will close shortly after one o'clock, the members of the musical club will return to resume their studies.

Friday March 17, the Musical Clubs will travel by bus to Tilden High School, where they will appear before the entire student body. This is a request performance after the success of the club's appearance there last year.

Cunningham's Master, Fenske Heads List of Stars at Relays

Records Endangered In Every Event

By Jim Fahey

Baseball has its All-Star game, football its All-Americans, and hockey its Stanley Cup playoffs, but comparatively they all take a back seat to this year's edition of the classic of mid-western collegiate track, the Armour Tech Relays.

It is doubtful if ever before has such an aggregate of stars assembled to participate in the Relays. To list the names is to record the tops in track talent in the Midwest for the feats of Fenske, Deckard, J. Smith, Burke, Diefenthal, Padway, Ed Smith, Greer, Davenport, Buxton, Piker, Rikli, Kauffman, Mehl, Best, Gragg, and others have already been stamped in the books time and again.

Fenske Out for Record

The feature of the big evening will be the special mile which will see Wisconsin's "Chuck" Fenske out to better his record time of last year, 4:08.9, which still stands as the fastest mile ever run indoors in the Midwest. Last week "Chuck" became "king of the milers" when he showed Venske, San Romani, and Cunningham his heels on the Columbian mile in New York. His time of 4:11.1 should be improved on the faster track of the U. of C. and with the

Wrestlers Head For Invitational After Herzl Win

This Saturday, the Armour Tech wrestlers will travel to Wheaton to participate in the second annual Wheaton Invitational Meet. The team will leave Saturday morning and will be under the direction of Coach Weissman.

Last year in this meet, the Techawks came off with several secondary honors, but this year the team expects to take a couple of firsts. Tullgren, Till, and Kazmierowicz have all shown that they are going to be extra hard to beat when the tourney starts.

Whips Herzl, 23 to 9

Last week as a tune-up, the squad took on Herzl Jr. College and won by a 23 to 9 score. Balsewick, Tullgren, Kazmierowicz, and Till all won bouts on falls while Nigrelli came through with a decision.

Hanna and Ropek, after getting stuck on the time advantage, chased their men all over the mat but couldn't catch them and consequently lost. In an exhibition bout, Harrison of the Techawks had little trouble beating his opponent from Herzl.



By Art Jens, '31

(Ed. Note: This week Tech Shorts is written by Art Jens, who originated this column when he served as sports editor in 1930-31. This annual visit by Art will be continued next week.)

The Cubs may head for Avalon and the Blackhawks may enter the Stanley Cup series, yet the true harbinger of Spring to us is the annual running of the Armour Relays. This will be Armour's eleventh meet of the series and promises to surpass any and all of its predecessors. This sounds like big talk and probably it is, but we cannot recall a single instance in the past ten years when the successor did not exceed its predecessor.

We have been at this thing for a long time now. This column represents the 72nd effort of your correspondent over a period of ten years and this will be our eleventh Relay meet. Nuff said.

Armour is especially fortunate in the conduct of its meet in that it does not have to compete with highly organized carnivals such as are held in the east each year. True there are the Chicago Relays, the Illinois Relays and the Butler Relays to contend with yet the spacing of each of these, with the exception of the latter, are such as not to offer serious conflict.

Armour Relay winners have gone on to greater triumphs. Many have won collegiate, national and world titles. A roll call of great names over the past ten years would reveal some of America's leading track and field performers. To mention a few we give you McCormick of Notre Dame, Brooks of Chicago, Fuqua of Indiana, Brocksmith of Indiana, Don

Paul of Armour, Ike Lenington of Illinois, Pongrace of Michigan State, Hermann of Carleton, Tolmich of Detroit, Lash of Indiana, Haller of Wisconsin, Grieve of Illinois, Fenske of Wisconsin, Mehl of Wisconsin, Davenport of Chicago, Frary of Illinois and Ed Smith of Wisconsin. There were many others and there will be many additions in the future.

Again it appears that the high jump and the pole vault will provide the greatest customer interest. Padway, the Wisconsin sky-toucher, should hoist his present record to above fourteen feet. He made an attempt in a dual meet with Minnesota several weeks ago to equal the World indoor record. He scarcely failed in his third attempt. In the high jump Diefenthaler of Illinois has reached 6 feet 6 3/4 inches which is almost a full inch over the present record. He should replace Bechel, the four time winner in this event, as the record holder.

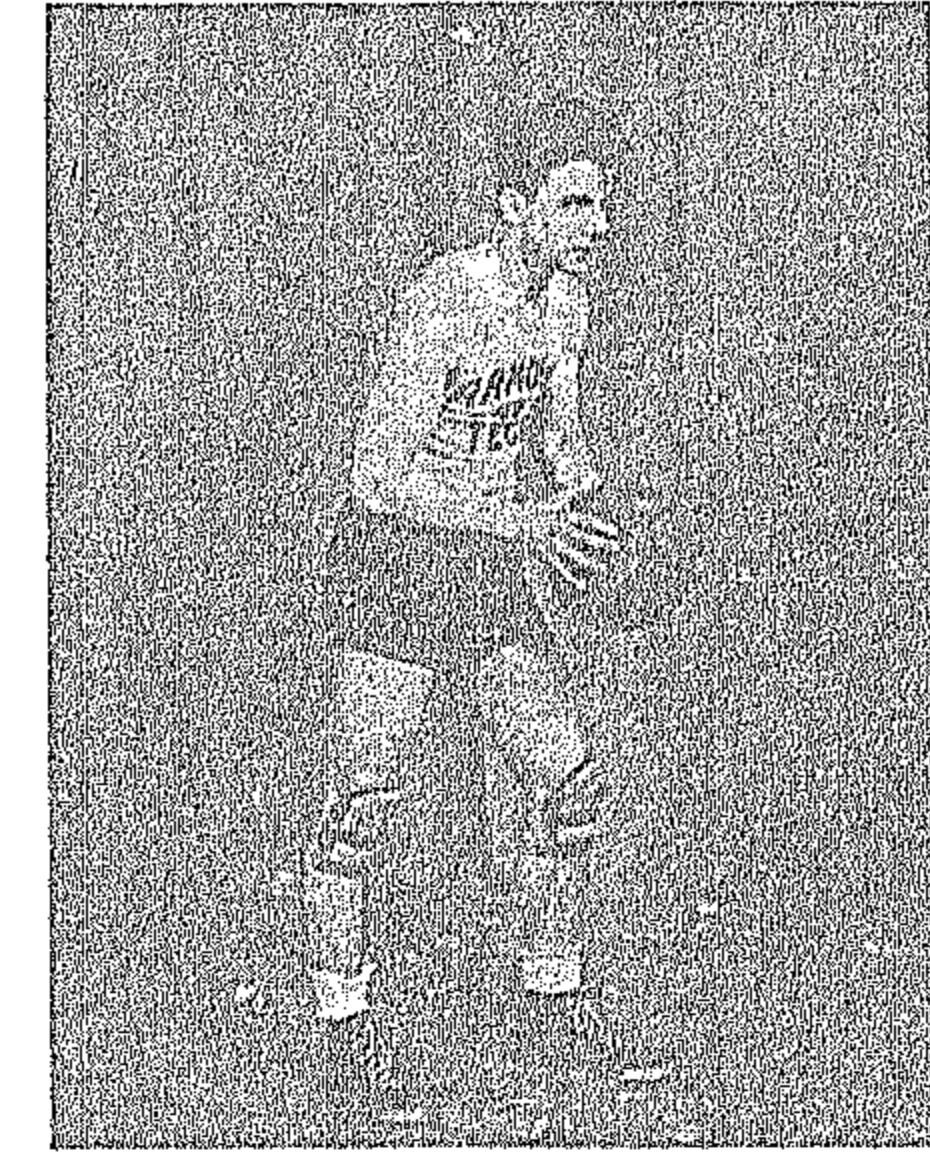
It is difficult to forget the notable performance of Chuck Fenske in the mile last year. Had he run against Cunningham that night the record would probably read close to 4:06 instead of 4:08.9. We saw the Cunningham-Fenske mile at the Amphitheatre the week following the Armour meet last year and in spite of the setting, it lacked the thrill of Fenske's run on the Field House track.

It is difficult to predict the outcome of many of the running events. The hurdle records seem vulnerable especially with Wisconsin's Ed Smith in both the tall and short sticks. Smith equalled the American record in the highs last year with an :08.6 race. The 880 seems plenty safe at 1:55.5 which is the record set by Calvin Beckett of Marquette in 1936.

If you have never seen an Armour Relay Carnival; if you have never heard the bark of a starters gun then come to the University of Chicago Fieldhouse Saturday and see one of America's premier track meets. For those who have been there before no further invitation is necessary.

Bill Scherer, Veteran Guard, Elected As Captain of Cagers

NEW CAPTAIN



Bill Scherer, who last week was elected to succeed Ed Swanson and Paul Henriksen as captain of the Techawk's basketball team. Bill is a Junior Architect and a member of Delta Tau Delta Fraternity.

Fourteen Lettermen Approved By A.T.S.A.

LASKER MANAGER

Last Thursday afternoon, the Armour Tech Student Association met and approved the selection of Bill Scherer as captain of the 1939-40 varsity basketball squad. In addition to approving the new captain, the Board awarded major letters to thirteen players and to the student manager.

Heading the list of lettermen were the co-captains of this year's squad Ed Swanson and Paul Henriksen, followed by Joe Janicek, Al Kubicka, Paul Hofmann, Bill Scherer, Lloyd Norkus, Herb Sher, Ed. O'Connor, Frank Lurz, and Hank Sliwa. A manager's award went to Ed "Streaky" Grabacki while Rupe Weber, Johnny Rudakus, and Tom Barrett-Smith received minor letters.

Stars at Guard

The new captain has played varsity basketball now for two years, playing at both forward and guard. Bill came to Armour from Naperville High School where he starred in both football and basketball. Enrolling in the Delta Tau Delta frat at the Institute, Bill soon became known for his passing ability in touchball and his pitching in softball.

Playing for the frosh team, he was one of the leading scorers at the forward position but when he went out for the varsity, he was shifted to guard because of his superior defense play. Last year the Naperville Techawk alternated at guard and forward but this year he stayed at the guard post, from where he scored 54 points to be fifth high scorer on the team.

Lasker Succeeds Grabacki

Replacing Ed Grabacki as manager will be Frank Lasker, a junior mechanical, who has just finished a year of service as assistant manager. Due to the fact that Frank was the only junior to stick as assistant to Grabacki, he was appointed without election.

PAST WINNERS OF TECH RELAYS

1929	Chicago
1930	Armour
1931	Loyola
1932	Indiana
1933	Chicago, Illinois State, Northwestern
1934	Michigan State

UNIVERSITY DIVISION	COLLEGE DIVISION
1935 Pittsburg	Butler
1936 Kansas State	Wayne
1937 Wisconsin	Wayne
1938 Illinois	No. Central
1939 ?	?

competition Tommy Deckard and Jimmy Smith will give him.

While entered in the mile, Deckard is best known for his ability to beat Lash at the two-mile jaunt. Tommy was a member of Uncle Sam's Olympic team in 1932, being the No. 1 man in the 2,500 meter steeplechase.

Watch Burke, Padway

In the high jump, the spectators may witness the setting of a new world's record, and if not, surely a new Relay mark, when Burke of Marquette and Diefenthal of Illinois square off. Both have done 6 ft 6 3/4 inches repeatedly and that is already 3/4 inches better than the present Relay record.

The pole vaulting of Milt Padway also insures a record breaking performance for 14 ft. 2 1/2 inches has been common for this sky-toucher, and this is only a few inches off the world's record held by Wambersham.

To sum it all, no record is secure and at least four are doomed as Armour truly presents a "night of stars."

Sixteen Athletes Pledged By Honor A At Gathering

Sixteen men met last Wednesday night in an informal smoker to receive the highest honor an athlete can receive at Armour, pledging to Honor A. The recipients of the award can now be seen about the Institute wearing the traditional black and yellow Honor A pledge ribbons.

Pool and ping pong tournaments along with the Armour pastime, card playing, rounded out the entertainment which was climaxed by refreshments galore. Following the refreshments, each pledge was called upon to demonstrate his ability in a exhibition of interesting feats which included a display of wrestling holds by Kazmierowicz, and swing steps by Ropek.

President Bill Kruse addressed the pledges, stating the purpose of the organization and a resume of its activities. Another pledge meeting is forthcoming at which each pledge will be assigned his respective duties.

This year's list of pledges consists of: Scherer, O'Connor, Hofmann, Sliwa, Janicek, of the basketball team; Ropek, Kazmierowicz, Hanna, Tom Clark of wrestling and boxing; J. Clark, Ryan, and Elwood of the track team; Leonard and Bauch, baseball, and Dodge and Svagdis of the swimming team.

I'M GLAD YOU CHANGED TO CAMELS

I SURE LEARNED A LOT WHEN I BEGAN TO LET UP... LIGHT UP A CAMEL

SMOKERS FIND: CAMELS NEVER JANGLE THE NERVES

SIDELINES

IT'S HIGH TIME THE D.A.R. indulged in a historical investigation to see what the name, "Daughters of the American Revolution" means, instead of expending so much effort in useless and often harmful inquiries into matters that are plainly none of its business. Next to Henry Ford and the Dies Committee, this exclusive order of questionably hereditarily endowed females, is the most reactionary group in the country. A classic example of its campaign to keep America safe for the future daughters of the present D.A.R. took place in Washington a few days ago. Miss Marian Anderson, unquestionably the greatest living contralto, and a negro, was refused permission to sing in Constitution Hall. If it had been any place else than Constitution Hall, it wouldn't seem so ironic. The D.A.R. took it upon itself to raise a cry against the admission of a negress (and a real lady) to the sacred portals of a hall which stands for our fleeing liberty, fraternity, and equality.

This now notorious group not only indulges in innocuous bridge games, but it has several energetic members who feel especially called on to benefit America by carrying on an active campaign of red-baiting. Notable in this respect is Mrs. Albert Wallwick Dilling, who took it upon herself to weed out every person and organization in this country of any repute, who were in the least bit inclined to be liberal, and label them as reds (whatever that means.) Her efforts were published in the "Red Network: a who's who and handbook of radicalism for patriots." Her sequel to this masterpiece of absurdity was "Roosevelt Red Record and its Background." We hope she doesn't catch Neville Chamberlain blushing while trying to explain his Munich settlement, because she might label him red, and that would be a grave mistake.

WITH THE PASSING of Judge Louis Brandeis from the bench of the Supreme Court, that high tribunal lost a great scholar and a valuable liberal. Brandeis was a justice for 23 years, and during that time he remained a stern Jeffersonian liberal who respected the small man and desired a simple way of life. He repeatedly acted to break up large trusts and monopolies of any nature (including the N.R.A.), as he feared the loss of freedom with the growth of anything large and powerful. Scholarly and humane, respected and honored, Louis Brandeis has left a record of great value to the Supreme Court of the United States in his long service there.

THE FRENCH TREATMENT of Spanish refugees at the Pyrenees border is not irregular with the increasing moral collapse of that country. Thousands of homeless unfortunates have been huddled into filthy, congested areas and offered practically nothing to decrease their misery. Disease is rampant in the refugee ranks, and hunger and cold are everywhere. The waiting arms of mother France have turned out to be but barren bones, and the suffering Spaniards might even do better to return to Francoland where their miserable stomachs would possibly be fed. All this suffering for what? A pertinent question which offers little consolation in its various and indefinite answers.

E. H. W.

Interfraternity Council Holds Monthly Meeting

Last Tuesday evening, the Armour Interfraternity Council held its monthly dinner meeting at 6 p.m. in the Student Union Building as guests of the Theta Xi Fraternity. The council, which is the governing board of the fraternities at Armour, discussed and composed a set of regulations to decide the eligibility of fraternity men in the sport events sponsored by the council.

The council has been active in establishing rushing rules, fraternity regulations and standards. It also sponsors inter-fraternity activities, providing awards for sport events and tournaments.

AVERAGES—

(Continued from page one)

list of fraternities. Pi Tau Sigma, honorary mechanical fraternity, leads with an average of 2.44, followed by Salamander, honorary fire protection fraternity, with an average of 2.43.

Tau Beta Pi	2.40
Pi Tau Sigma	2.44
Eta Kappa Nu	1.98
Chi Epsilon	2.13
Phi Lambda Upsilon	2.31
Salamander	2.43

Honorary Fraternities (Non-Scholastic)

Pi Nu Epsilon	1.77
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Honor Society

Sphinx	2.12
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Professional Fraternities

Scarab	1.66
Alpha Chi Sigma	1.97

The social fraternities are led for the fourth year by Sigma Alpha Mu with a 1.92 average. The listing of fraternities according to seniority is:

Phi Kappa Sigma	1.10
Delta Tau Delta	1.52
Theta Xi	1.61
Phi Pi Phi	1.11
Rho Delta Rho	1.61
Sigma Alpha Mu	1.92
Triangle	1.63
Pi Kappa Phi	1.46

Rating System Explained

The averages as computed are weighted. The letter grades are assigned numerical values as follows: A equals 3 grade points, B equals 2 grade points, C equals 1 grade point, D and E equal 0 grade points. The averages are computed by taking the sum of all grade points multiplied by the corresponding number of semester hours, the total being divided by the number of semester hours to get the average. Physical training grades are omitted from the averages. A credit for work at other institutions is considered equivalent to 1 grade point if the student's scholastic standing for work at Armour is below 2 grade points, 1.5 if his average is equal to or more than 2.00 and 2.00 if his average is equal to or greater than 2.50.

Vibration Subject of Faculty Talk

Tenth in a series of talks entitled "The Faculty Club" was presented over WCFL at 12:45 Sunday, March 12. In this informal discussion the question of unpleasant sound vibrations was considered. The noises and squeaks produced by an automobile traveling along a brick road are typical examples.

Another interesting example and familiar is vibration in a building caused by the passing of nearby trains. After listening and participating in the discussion, Mr. C. O. Dohrenwend agreed with Mr. M. G. Christophersen that it would be much cheaper to build a house on a lot in the country, far away from the railroad, than to try to absorb or prevent the vibrations.

Mr. N. B. Schreiber brought up another interesting phase of this problem when he asked about deadening sounds produced inside of a building. Mr. H. A. Leedy of the Research Foundation showed him that because of such variables as the position of the speaker, the quality, pitch, and type of the syllable, the size of the audience, etc., the behavior of sound in the room is practically unpredictable.

Frequently, it is possible and convenient to absorb the sound vibration quiet near its source. This is usually done by mounting the device on low frequency springs, rubber cushions, or similar absorptive material. However, Mr. Potter explained that in the case of the Maxim silencer and the automobile muffler, the basic principle is not to decrease the frequency of the vibration, but to absorb, and dampen the energy of the waves and thus decrease their amplitude.

One of the most undesirable effects of vibrations is the damage produced in buildings. Everyone has heard that soldiers must break step in crossing a bridge, but few would think that a famous American bridge was reputed to have a strict rule against permitting dogs to cross the bridge for fear that the trotting would be in resonance with a natural frequency of the bridge.

ARX NEWS

Things are happening!

First off, quite a number of ye Arx contributed to the success of the Junior Formal by attending it last Friday. . . .

. . . Lindahl was there with, guess who, Ann . . . Virginia dragged Hut-ton all the way from Indiana . . . Lorry was there with one of the Evanston gals, as per usual—just to mention a few of the more socially inclined Arx.

Adv.—John Rea would like to have whoever took his drawing set to either return it or come back for the piece he missed . . . maybe it's the same person that's got his room papered with flexwood and now he wants to furnish it.

Announcement: The Armour Architectural Society is holding a meeting and Smoker Thursday night, March 16, in the Student Union, from 6-10. All Arx are requested to attend. It is the beginning of further activities of the society.

Mirotsnic seems to be having some trouble with his wisdom. . . . Ask Dodge and Stowell about their trip to Peoria. . . . Famous words: Mirotsnic says, "Fee-foo-foom, I smell!" (Ain't it de troot) . . . Smiling Jack's coming through!

Best news of the week: Prather was elected delegate by Scarab to go to their national convention in California this summer, lucky guy. . . . BOZ-ARTS.

PLAYERS—

(Continued from page one)

and are active members of the dramatic organization at that school. They are cast as

Anna	Dorothy Kennedy
	Angela Palma
Poppy	Loretto Turner
Aunt Agatha	Irene Lund
Director	Merrill Christophersen
Asst. Director	Charles Schultz
Stage Designer	Richard Lisher
Stage Manager	Robert Underhill
Production Manager	
	William Buckman
Properties	Walter Kahl
Costumes	Arthur Hansen
	James Duncan

Two Lectures on Patent Law Scheduled by Larkin

Two lectures on Patent Law have been arranged by Prof. Larkin of the social science department as a supplement to his course in Public Policy. Eminent men in the field of Patent Law will discuss topics which are of great interest to coming engineers.

Thomas H. Sheridan, of the law firm of Sheridan, Davis, and Cargill, will speak on United States Patent Law next Tuesday morning, March 21, at 8:30 in the assembly hall of the Student Union. On the following Tuesday, March 28, at the same hour, a discussion on European Patent Law will be given by George von Gehr, of the firm of Langer, Parry, Card, and Langer. Mr. von Gehr is a member of the Armour class of '28.

Previous lectures of this kind have been given by Mr. von Gehr and others to senior students in connection with their Public Policy course. They have always been well attended and have met with an unusually favorable response. In order that seniors who have conflicting classes may not miss these talks, they will be excused on the days of the lectures.

Chemicals Begin Work On Senior Problems

Work is progressing rapidly on the engineering problems of the senior chemical engineers. Each year the seniors choose a specific problem in chemical engineering and spend their entire semester's laboratory time in research, construction, and collecting data.

As many problems require the construction of equipment, a large collection of apparatus has been accumulated. As additional problems, refinements are made and additional data taken on already constructed equipment.

One of the problems this year is an extensive survey of new types of Roto-meter tubes. These tubes are used for measuring the velocity of liquids. The instruments have been in use for only five years and are still far from perfect.

Another interesting project is an investigation into the new uses of cocoa beans. The purpose being to

Stevens to be Site Of Freshman Dance

"Bigger and better than ever before" is what the Freshman Social Committee wanted—and they claim that they have it.

On Friday, April 14, the Freshman dance will be held in the Boulevard Room of the Stevens Hotel.

Art Wise, and his well known orchestra, will be on deck to pour forth some real rhythm. He has played throughout the country and has had loop engagements.

In order to make a real success of the occasion, the committee suggests that anyone interested, give his opinion on the type of songs that he wishes played. These opinions may be deposited in the Tech News Box, or given to one of the committee members personally.

The bids are \$1.50—and what bids they are. They have been designed in a totally different style. The touch of originality has been added by one of the committee members.

In order that all students may attend, the dance has been arranged so that it will appeal not only to freshmen, but will attract dancers from the whole school.

The Freshman Social Committee, in whose hands the dance plans rest, is Bob Tatge, Bob Ther, Ted Krupnik, Dick Talcott, Earl Huxhold, Jack Mays and Bob Beeson will do the posters.

find a use for the waste products that are of little use at present.

As an attempt to produce a solution to a here-to-fore complicated problem, another project deals with the reclamation of crank case oils. This problem presents the difficulty of an economic process that will produce a satisfactory grade of oil that is lower in cost than newly refined oil.

Along the same line as the reclamation of crank case oil is the recovery of sodium chloride from brine solutions by the use of acetone.

The list of problems also includes such projects as, liquor velocity in cross tube evaporation, adaption of organic vapor by silica gel and activated carbon, and determination of heat transfer coefficients.

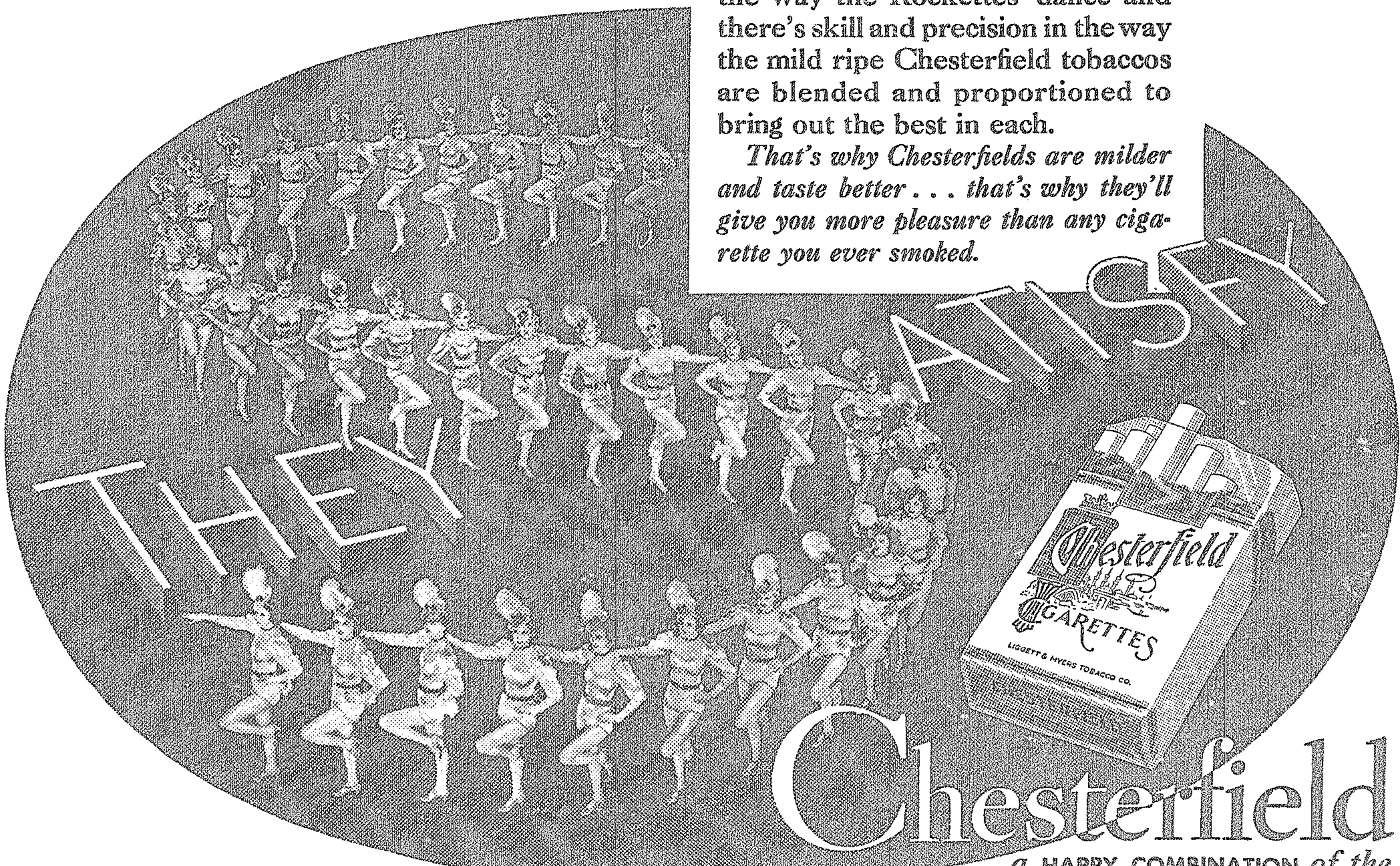
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