



## Navy Plane to Arrive Soon

Will Be Set in Curtis Field For Study By Engineering Students

Professor J. Harland Billings, head of the department of mechanical engineering, announced Tuesday that Drexel has acquired a single engine Navy fighter airplane from the War Assets Corporation, for laboratory demonstration purposes. The plane, which will be either a Chance-Vought F4U "Corsair" or a Grumman F6F "Hellcat," is expected to arrive within the next few weeks. It will be flown to the Philadelphia Airport (S.W.) and moved by truck to Curtis Field. Folding wings on both of these type planes will eliminate the necessity of dismantling and assembling, thus permitting easy transit in one piece.

Both planes possess 2000 h.p. Wright cyclone engines, and an intricate wheel retraction system. The "Hellcat" has the novel feature of a negative (downward) thrust line, which allows for greater stabilizer control while landing. On the other hand, the fuselage of the Corsair extends slightly beyond the tail surfaces which, according to some authorities, makes it more difficult to pull out of a spin. Thus either one of these planes will afford some interesting problems for the M.E. in the aeronautical option. The E.E.'s will be interested in the electrical systems—particularly that of the "Hellcat." The C.E.'s too will find special structures of interest.

The plane will be located in a corner of Curtis Field, which will interfere as little as possible with softball.

No housing has been arranged as yet. Prof. Billings expressed the opinion that the weather will not seriously damage either plane since both are of the enclosed cockpit type. There is little space in the present mechanical laboratory for additional equipment, nevertheless Prof. Billings is negotiating with War Assets for other items of surplus property which will be useful for laboratory purposes.

## Frosh Feted At Y.W.C.A. Bowling Tilt

The pins will fly tonight as Big and Little Sisters match abilities at the Y.W.C.A. welcome party for the February freshmen. Pin-boys will be ready and waiting at 6:45 at the Walnut Bowling Academy.

Pre-party fun includes individual supper groups which are being independently arranged. Everyone attending the get-together is urged to join the others for dinner.

This bowling party carries out the YW tradition of welcoming new freshmen with a get-acquainted affair. All incoming students find that they have acquired a new member in their family, a Big Sister chosen by the YW from among the upperclassmen.

Friendships between Big and Little Sisters are already well-developed with the older students helping the new girls become acquainted with the Institute and Drexel tradition. Tonight's party will enable all the new students to better acquaint themselves with their classmates.

All February Freshmen and their Big Sisters are invited and assured a wonderful evening.

## Advice to Juniors & Seniors

The Juniors of the Engineer's Club of Philadelphia have announced that they will hold a Forum on Tuesday, March 5, on "What the Young Engineer Faces Today." In a letter to Dean Disque they extended an invitation to the seniors and juniors of Drexel to attend this meeting.

Dinner will be served prior to the meeting at 6:15 P.M. at a cost of \$1.50 per person and the meeting will be held at 7:30 P.M. in the auditorium of the Engineer's Club, located at 1317 Spruce Street.

The timely subject of the forum is one that should interest all engineers in their latter years of study. The forum will no doubt show what the young engineering student can expect upon graduation.

Complete details of the program and speakers are forthcoming and will be posted on the main bulletin board.

## Friends To Aid Annex

Through the outstanding public spirit and cooperation of the "Friends of Philadelphia," Drexel Institute has been able to expand its classroom facilities for Freshmen classes. At the monthly meeting of the Race Street Friends of Philadelphia, it was decided that a large portion of the Friend's School at Lancaster Avenue and 35th Street would be loaned to Drexel Institute to enable the enrollment of an even greater number of veterans and high school graduates.

Information received from the Office of the Dean of the School of Engineering indicates that as many as 150 students could be seated in that part of the Friend's School that has been loaned to Drexel. This number will be comprised of the members of the new freshmen class, since their schedules are all regular and can, therefore, be handled as a single unit. Their schedule will be so arranged that the students will spend several hours of the morning or afternoon at the Friend's School and the remainder of the day at Drexel. All efforts are being aimed toward the goal of assisting the freshman by offering an organized schedule to him. It is the members of the faculty who will suffer from the irregularity of the program.

Laboratory courses will be scheduled, as before, at the Institute, but such classes as Mathematics, Chemistry, English, and Mechanical Drawing can be taught at 35th and Lancaster. At present new lights for the drafting room are being installed, but this section should be ready for occupancy by the April frosh class.

The Board of Trustees of Drexel Institute are extremely grateful for that spirit exhibited by the Friends

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## Semi-Formal Dance Irish Motif

Shamrocks and clay pipes will make up the predominating influence at the "Irish Jig." The "Irish Jig" is coming off Friday night, March 8th, from nine until one in the dormitory. The dance will be semi-formal. Dancing, Irish entertainment, and Irish refreshments will make up an evening of fun for all the wearers of the green. Tickets to this big event will be on sale to all Irish lads and colleens for only two dollars.

## Thos. L. Thomas In Fete

Thomas L. Thomas, the famous baritone, will be Drexel Institute's guest soloist at the annual Spring Festival of Music to be held Saturday, May eleventh, in the Drexel auditorium. Mr. Thomas, who is currently featured on the popular radio program "Manhattan Merry-Go-Round," which can be heard on KYW every Sunday evening at nine, is expected to sing a variety of many pleasing melodies. Music critics have been unanimous in their praise of Mr. Thomas, who has appeared on programs with the New York, Chicago, and Toronto Philharmonic Orchestras, to name but a few. According to the Albany Times Union, he has—"the most beautiful mezzo voice that we can remember since the days of John McCormack—when Thomas sings you hear pure song." The Washington (D. C.) Times Herald has this to say about Thomas—"a sensational baritone and a great artist."

Appearing with Mr. Thomas will be the combined Drexel Glee Clubs, the Military Band, and Mr. William S. Thunder at the console of the Grand Organ. The Spring Festival promises to be one of the outstanding musical presentations at Drexel. Tickets for this event will be available on or about the first of April. A special price of \$1.25 including tax, has been set for the students and faculty, while the regular admission will be \$1.42 including tax. Get your ticket early for a full house is expected for this affair.

## Home Ec. Conference Tomorrow

The annual Drexel graduate-senior conference in home economics education will be held Saturday morning, March 2, starting at ten o'clock. This will take place in the Drexel picture gallery.

Last year's graduates, who are now teaching home economics, will participate in a discussion of their experiences and problems which have confronted them in their new jobs. Miss Elsie Penton, a Drexel alumna, and now of the Radnor Township High School faculty at Wayne, Pennsylvania, will lead the discussion.

Following the discussion, the home economics faculty will be the hostesses at a buffet luncheon for the teachers and the dietitians of Philadelphia who are Drexel graduates. President and Mrs. Creese will be the guests of honor at the luncheon. Dr. Creese will speak to the group.

## Blue Key, Phi Kappa Phi, and Tau Beta Pi Initiate New Men

### Tau Beta Pi Honors Five In Revival

Before the war and during the week preceding the Engineer's Ball, the Great Golden Bent of Tau Beta Pi stood as a silent sentinel in the Great Court. It represented a goal for underclassmen engineers. The Bent, which is the underpinning of a trestle and alludes to the strength and durability of engineering, is the key of the foremost honorary engineering fraternity of the country, Tau Beta Pi.

Like all other honorary societies, Tau Beta Pi became practically nonexistent during the war, however, its official comeback was marked last Thursday, February 21, out at the Lodge. It is the usual procedure for the fraternities pledges to take an all-night entrance examination. True to form, the five pledges who are the top men in the senior engineering class, crammed from 12:00 P.M. to 6:00 A.M. Friday morning in order to pass this entrance exam. The candidates were given the exam by Professor Sam Leonard and Mr. Keely of the C. E. department and Bob Wagner, the only active member before today. Wagner recently returned from the service. The five men who successfully passed were: Lary Tecosky, Harold Feldstein, Dominick Battaglia, Frank Tilli, and Dick Turner. Their efforts were not in vain for as a reward they received one of those inimitable breakfasts as prepared by that master chef of chef, Francis Sam Leonard.

These men, whose records are outstanding, will be taken into the Zeta Chapter of Tau Beta Pi on Saturday afternoon with a formal initiation.

## Chaperone Situation Eased By New Ruling

At a meeting of the Social Committee on Tuesday, February 19, an amendment to the rules concerning chaperons was passed permitting married undergraduate fraternity members to act as chaperons for fraternity parties and dances. A minimum of two couples is required to chaperon a party at the Drexel Lodge or any of the fraternity houses. One of these couples may be an approved married fraternity member—alumni or undergraduate—and his wife. The other couple must include a faculty member.

Vince Ciardo, president of the Interfraternity Council, called the meeting at 4:30 P.M. in room 202 of the Student Building to facilitate the procurement of chaperons. With the recent opening of the Teke house and with growing memberships in student organizations, several social affairs are being held on the same evening, each one requiring two or more couples as chaperons, which formerly had to be faculty members and their wives. Most of the faculty members have domestic and social interests outside of Drexel which many times prevent them from accepting invitations to

chaperon Drexel parties, so that it has been increasingly difficult to obtain chaperons for all social affairs. The new rule will relieve the difficulty to a marked degree, since there are now many married members in all fraternities. Yet it does not in any way sacrifice the principles of the Institute in requiring chaperons, for it is felt that married fraternity members have a sense of responsibility to their fraternity and their school, not often found in single people.

To take advantage of this new ruling, it was decided at Dean Stratton's suggestion, that each fraternity must submit to Mrs. Young, the Dean of Women, the names of ten married fraternity brothers (alumni or undergraduate). From this list of ten, three couples will be approved by the Dean of Women to act as chaperons for fraternity parties and dances.

Mrs. Young suggested the establishment in each student organization of a hospitality committee to arrange for the transportation and comfort of the chaperons. Picking up the suggestion, Mr. Ciardo made the statement

### 15 Students Bid For Honorary

The Drexel chapter of the Phi Kappa Phi initiated 15 new members into its membership on Wednesday evening, February 27. The initiation was held in the Art Gallery, and dinner was served at seven o'clock in the Ryder Club.

Dr. Walter L. Obold, president of the local chapter, presided. The speaker for the evening was Dr. Millard Gladfelter, vice-president of Temple University.

Phi Kappa is a national honor society that recognizes excellent scholarship in all of the schools that comprise a college or university.

Membership is based on scholastic work, in fact, the Phi Kappa Phi is the one Honor Society at Drexel in which membership is based solely on scholarship. The first eight seniors of the respective schools are eligible for membership at Drexel. The tradition has been to select from their group the ten people with the highest averages.

Dr. James Creese and Professor Amanda Ebersole were the faculty members initiated into the organization. Seniors in the Engineering School include Robert E. Wagner, Lawrence Tecosky, Harold F. Feldstein, and Frank J. Tilli. From the seniors in the Home Economics School Marjorie Wormeck, (Mrs.) Ruth Strathmeyer, Jean Gettel, Patricia Fay, and Eleanor Hardeastle were chosen.

Mary Kettelman, Anita Hissner, Margaret Balderston, and K. Ruth Miller are the seniors represented from the School of Business Administration.

### Blue Key Honors Four Senior Men

Blue Key, Drexel's Honorary Fraternity, composed of men who are outstanding student leaders, will hold an initiation for the four men of the Senior Class who have been selected by the faculty advisors as a nucleus for reviving this organization. These men are Hubert D. Clopp, Richard S. Dowd, Frederick Koenig, and James D. Mickle.

Hubert Clopp, better known as "Huey," was outstanding in his work as football manager of last year's term. He was President of his class in the Pre-Junior and Junior years, has been a member of the A.S.M.E., Drexelterians and Y.M.C.A. Huey will finish his scholastic work as a Commerce and Engineering student this March and receives his degree in June.

Richard Dowd is best known as the Captain of football and baseball teams, and a former member of the basketball team. He was President of his Sophomore Class, Vice-President of the Junior Class, member of the I. F. Council, Y.M.C.A., A.S.M.E., G.I. Club, and Varsity Club. He has served on the Spring Prom and I. F. Ball committees. At the present, Dick is President of the Teke's. A former Air Corps Cadet, he is also a member of Who's Who Among Students in American Colleges and Universities, and will receive his degree in Mechanical Engineering in June.

Recently separated from the Armed Forces Fred Koenig has been a member of Men's Student Council, the I. F. Council, Editor of the "D" Book, member of the Y.M.C.A., Drexel, Lexter, and Swimming Club. He, also, is a member of the Teke's.

James Mickle, another veteran, is a senior in the Business Administration College. Before leaving Dick was a star end on the football team for three years, a member of the basketball team, on Men's Student Council, Class Officer for two years, a member of the Bourse, and TKE.

## Omicron Nu Hears About Aleutians

The home economics assembly, sponsored by Omicron Nu, honorary home economics sorority, was held in the Drexel auditorium, yesterday at 2:30 P.M.

Miss Anne Wogan, an instructor in Home Economics in the South Philadelphia High School for Girls, told of her experiences in the Aleutian Islands last summer. She worked for the federal government on a seal canning project. Her talk was illustrated by colored movies and slides.

After the lecture, Miss Wogan was honored by the members of Omicron Nu at a tea in the picture gallery. Mrs. Ruth Strathmeyer, president of the organization, presided at the assembly.



## Don't "Let Joe Do It"

SCHOOL spirit—two words that may be interpreted in many ways. Say them over, to yourself, several times. School spirit—just what does that mean to you? Not exactly what it means to Joe, but it means something. It is your meaning that is most important.

School spirit need not mean a madly shouting, never still, grotesquely hopping creature. In fact this sort of enthusiasm is most easily worn out and disappears first. It can be a quiet, steadfast but real desire to back up school projects, aims and ideals.

Your support of your school is actually school spirit. Do you have any? You can, in many ways. Do you vote in all the elections? From class and sorority and fraternity to the one for I.F. Queen? When a sign in the court announces the need of help for Lexerd, or some other organization, what do you do? Let Joe do it? That's not school spirit.

Did you ever stop to think that Joe might get tired and what would happen if he didn't do anymore? Sure, I know, it takes a little energy to go down in the court and vote or go to the show or the dance. Sure, I know you can't support everything, but you can support something. Do you? Well get up and do something about it!

Do you refuse to do anything because you don't like the way our organizations are run? Well then find out what makes them tick and get a few suggestions ready, offer them. Most organizations welcome such help. Go out and do something—don't just sit and complain.

Let's suppose Joe is tired. He acts as you do—never goes to meetings, never votes, doesn't do anything. Organizations collapse and everything dissolves into a state of complete inertia and everybody is happy. Or are they? Even you miss the happy buzz of activity. Somebody wants a dance or class meeting. Well—that's a good idea—swell! Everybody is out and working. That is great! So everything is running smoothly and you are getting tired—you aren't needed—Joe can do it. So you drop out. Now don't begin to wonder why things don't suit you, why Joe doesn't get things done on time and properly. It's your fault, not his. Maybe he has had too much piled on him again. Think about it! Isn't this what happened before?

It's there, in all of us and only needs half a chance and it will appear. Let's find out what school spirit means to each of us—and then do something about it!

## Basketball Fiasco

THE record of our varsity basketball team is none too enviable. To date we have won but a single contest while losing twelve. We have yet to win in a league engagement. It is quite evident to anyone who has watched our team in action that they have been outclassed in nearly every game they have played; the thing that hurts most is the fact that the outclassing teams have, in some cases, had questionable basketball finesse themselves.

Presented by these deplorable facts, we, who are interested in the success of Drexel sporting enterprises, are now trying to find the reasons behind this competitive debacle. As is human nature our first guns are trained on the man who should be running the show, the coach. We seek to find whether he is doing

his job well or not. Mr. McNally, the present coach, is quite evidently not delivering the goods. The play of the team indicates that insufficient time has been spent in drilling on the fundamentals of ball-handling, team play, and shooting. The most glaring weak spot of the team is its shooting, this weakness is evidenced by our terrible record on the foul line.

In many cases pure fighting spirit can make up for deficiencies in playing skill, but the Drexel five of 45-46 has, so far, been without any such fight. We are not far from the truth when we put the blame for this unsprited play on the coach and his own attitude toward his team.

It must be said, however, that this is Coach McNally's first year with the squad and he hasn't had very much time to work up a coaching routine, but we had expected that some improvement would have been made in our basketball team as it went through what now appears to be a disastrous season.

## Make The Effort

THE Social Committee meeting last Tuesday was a definite step in the right direction as to the treatment of chaperons at Drexel social functions. Establishment of the new rule allowing one of the two couples necessary for chaperons to be married fraternity men should do much to eliminate the present difficulties.

A great deal remains to be done, however, with such simple things as common courtesy toward chaperons. In the past chaperons were perhaps regarded as a necessary evil. Formation of hospitality groups within organizations sponsoring social functions was also suggested at the meeting—this in conjunction with an honest effort by all the members to make the chaperons feel as though they "belonged" could change the entire picture.

As the situation now stands the faculty needs only some display of warmth and hospitality to make them more willing to act as chaperons. The effort involved is practically nil and the benefits many—why not make the effort? This is not intended as a plea because as college students it should be realized that removal of that "watch-dog" atmosphere means a better social event and a more intimate acquaintance with those who are attempting to guide you as a student into the leadership of tomorrow.

## Fraternity Row

### • Alpha Sigma Alpha

Lots to be done this week, isn't there?

First, we saw alums Jean Cooper and Leanna Chase around the other week. Had a little chat with Leanna—seems she's doing real well up there at Conshohocken High.

Then we have a whole lot of new pledges—we're glad to have you, girls! We know you'll have loads of fun with us as well as a few serious moments. Those red and white bows really look nice as well as giving you the distinction of being Alpha pledges.

Also we've just recently initiated three girls, Jean Difelice, Elsie Crout-hamel, and Dottie Kannegeiser. Congratulations, girls—glad to have you.

Guess what! Dottie Weniger has just announced her marriage of last October—it's Dottie Reutemann now.

Phi Kappa Phi honored two Alpha Sigs this year: our sponsor, Miss Ebersole and active Mary Kittelman were initiated this week.

Alpha Psi Omega, dramatic honorary, pledged two Alpha's last week. They were Thelma Rottler, Ellie Schofield.

Well—I guess that's all for this week—so I'll sign off now.

### • Delta Phi Epsilon

By now you all must have noticed those gorgeous girls on campus with the yellow and purple bows in their hair. We will let you in on a secret—they are Delta Phi Epsilon pledges and their names are: Betty Edelman, Harriet Feig, Doris Greenberg, Phillys Green, Marilyn Friedman, Gloria Rosenthal, Marion Schindler, Florence Qualoff, Judith Mendell, Barbara Priceman, and Jolyn Laub.

Before we forget the wonderful time had at the I. F. Ball, mention must be made of Marilyn Hockstein's cocktail party. It started the evening off with a bang for the many Drexelites that were there.

The Philadelphia newspapers have finally recognized the talent of Joann Meyers. Joann was the Drexel representative at the "College Education in an Atomic Age" Forum and had her picture in the *Bulletin* and special mention in the *Record*. We are mighty proud of her.

### • Delta Sigma Epsilon

Hi Everybody! The Deltas have been "perkin'" right along. We are so happy about our grand new pledges. Say, they really did a good job of advertising for the Heart Hop. That must be why the dance, which our alums gave, was such a success. We all had fun and it was good to see and meet some of our alumni sisters.

Janet Conrad made a lovely I. F. Queen. There were lots of the Deltas

## Our Faculty

Triangle presents Dr. Kathryn E. Langwill as Faculty Personality this week. Dr. Langwill is a comparatively new member of Drexel's Home Economics faculty, having come here in September, 1944, as Assistant Professor of Nutrition.

Born in Wolcott, New York, Dr. Langwill graduated from high school and attended junior college in Springfield, Mass. In 1925 she graduated from Simmons College in Boston, having been a student of the general science course, chemistry major.

Upon graduation, Dr. Langwill took the first step in the exceptionally interesting career which makes her a real faculty personality. For three and one-half years, she worked for the Food and Drug Division of the Department of Public Health in Mass. Then she transferred to the Department of Purchase where foods purchased for all state institutions were analyzed. For a period of six months in 1930 she worked for "Eskimo Pie." One of the fascinations of this job, Dr. Langwill said, was that she could eat all she wanted!

Particularly interesting to Dr. Langwill was her work with the Applied Sugar Laboratories on Wall Street. There she was interested in specialty products for bakers and confectioners. The work was with fat-soluble colloids, especially lecithin and its relation to use in chocolate coatings. She also did research on the synthesis of a fat-soluble colloid having properties similar to lecithin. Dr. Langwill continued this same type of work, analytical and research, for the next ten years.

Along with this work, Dr. Langwill wrote many articles for trade journals dealing with confections, raw materials employed in their manufacture, and reconstruction of formulae from analytical data. She was also co-author of the book entitled "Chocolate Evaluation."

In 1940, Dr. Langwill received her M.S. in Nutrition at Columbia University. Shortly after obtaining her degree, she entered the physics department at Columbia where she participated in experimental work on the atomic bomb under Dr. H. C. Urey. As part of her work here consisted of trying to develop a method for plating uranium salts on platinum foil so that the relative proportions of U-238 and U-235 could be determined later.

It was at this time that Dr. Langwill had the opportunity of going to the Chemistry Department on a fellowship from the Nutrition Foundation



to again work on a war problem. She left the experiments on the atomic bomb before the work was actually completed, so that when the bomb was dropped, she was as surprised as everyone else. The work had been carried on in absolute secrecy and the only reason she was allowed to leave was the fact that she was continuing with war work—although of a different nature. This time she studied the influence of diet on the ability of animals to withstand high altitude. The thesis for her Doctor's degree was based on that work. In June of 1944, she received her Ph.D. in Nutrition and the following September Dr. Langwill came to Drexel as Assistant Professor of Nutrition.

Dr. Langwill has always been interested in food from every angle. While in school, she never missed a breakfast! (Take notice, Dorm girls!!)

For relaxation she particularly likes to read mysteries—she doesn't have to think and can completely relax.

Summer usually finds her at Hawk Nest Beach in Old Lyme, Connecticut, where she can indulge in her favorite sports—swimming, horseback riding and tennis.

One summer was particularly exciting for Dr. Langwill when she flew out west to a dude ranch in Buffalo, Wyoming, for two weeks. The plane made a forced landing just outside Omaha, Nebraska, due to radio trouble. Now her ambition is to fly over either the North or South Atlantic—she doesn't care which!!

present to see her crowned. It was a night to remember!

The Home Economics Association sent Kocky O'Boyle to Cornell as a representative. She brought home a fine report which she presented at a Home Ec meeting.

We want to welcome Betty Leaders, Harriet James, Betty Jane Cassel, Marion Julia, Lolly Lesko and Helen Obrengle into our active membership. On March first we understand you new members will prepare the food, etc., at the Lodge while the pledges entertain. Such royalty!

On February 25, the pledges and actives had a Mother and Daughter dinner at Kugler's. Some of the pledges entertained in an impromptu fashion. See you next time.

### • Sigma Sigma Sigma

Happy Washington's Birthday, Tri Sigmals! Just a little late for the big event but the thought was there. Bet you all had a grand vacation or was there a small problem of term papers?

Wednesday, February 13th, was a red letter Tri Sig day. The winter term pledging ceremony was held at 4:30. Twenty-six freshman girls, whose names were mentioned in a foregoing chapter of the *Triangle*, were pledged Tri Sigma. We extend sincerest welcome and congratulations to each of them. After the ceremony, they and their "big sisters" went in groups to dinner at various places. Now they're all working hard for

pledge points. Got any books to be carried?

Saturday night the Lambda Chi's have invited us over to a party at their house. The evening will be lots of fun, so see you there.

### • Theta Sigma Upsilon

Diets were forgotten and sleep was out of the question last weekend—yep, the Theta Sigs invaded the Lodge bag and baggage. Speaking of baggage we all gave three cheers for the conductors who helped Ruth Miller and Shirley Dimm carry the food up to the Lodge. While we're on the subject of food, anyone interested in buying cole slaw, please get in touch with one of the actives. Although the cooks swore they purchased one large head of cabbage, after forcing it on us at every meal.

A wonderful time was had Saturday evening which included ping pong, dancing and pinochle. Sunday morning we arose bright and early (after some persuasion—ask Vivian Smith, how well she knows!) We spent the morning in the kitchen eating (now can you see why the girls needed help getting off the trolley?)

There was skating on the lake but only at your own risk. After the girls grouped together to take pictures the cry, "Run the ice is breaking," echoed across the field. I wonder why they kept Jessie Mengelson on one side of the lake and made Betty Matheson stay on the other? Hmmm?

## The Drexel Triangle

Official newspaper of Drexel Institute of Technology 32nd and Chestnut Streets, Philadelphia

Published once a week by the students

Subscription \$2.00 per year

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Member

Associated Collegiate Press

Distributor of

Collegiate Digest

Entered as second class matter  
Oct. 15, 1926 at the Post Office in  
Phila. under Act of March 3, 1879.



## Engineering Sidelines—

### John Bacica

#### THE STANDARD ROUGHNESS GAUGE

The next time you are about to say "as smooth as satin" or "as smooth as silk"—don't say it. But the next time you are about to say "as smooth as glass"—go ahead and say it in a loud voice, for you will have the backing of science that whatever you are comparing is really smooth.

Using a new device, the standard roughness specimens, which determine roughness or smoothness, whichever you choose to call it, engineers recently proved scientifically that glass is about 300 times smoother than satin and about 475 times smoother than silk.

Moreover as solace to the housewife, "dishpan hands" were given a new lease on life by this measuring instrument. Though they may not have the "skin you love to touch," "dishpan hands" by actual measurement are twice as smooth as satin and more than three times smoother than silk, the engineers claim.

The standard roughness specimens are a series of 10 metal blocks, representing 25 different surfaces and 10 different degrees of roughness. The roughnesses range from only four millionths of an inch deviation from "perfect smoothness" to 2,000 millionths of an inch deviation. In downward progression, each block is twice as rough as the one immediately previous.

By rubbing a finger or scraping a fingernail across the surface of an object to be tested and then across the surfaces of the various blocks, the object is compared by sense of touch, and the block whose roughness most closely corresponds determines the degree of roughness of the object.

### Women in Science— at Drexel

Women in Science, an organization of professional women, held a meeting in the Art Gallery at Drexel on Saturday, February 16, upon invitation of the School of Home Economics. Dean Chapman presided and Dr. Kathryn Langwill discussed the teaching of nutrition in the college. This was followed by Dr. Walter L. Obold who discussed the teaching of the Biological Sciences.

Following the meeting, a reception and tea was held. Many outstanding women of the Philadelphia area were present and entered into a discussion following the speakers.

As a back check to prove the roughness specimen findings, another highly sensitive device, which electrically "feels" each surface and makes its own measurements, was used, and the findings were corroborated.

Ordinary windowpane glass, put to the test, proved too smooth for even the smoothest block, and thus the back checking meter, used only for uncommonly high degrees of smoothness, had to take over. The instrument recorded glass as having only four 10 millionths of an inch deviation from "perfect smoothness." Such deviation amounts to 7,500 times less the thickness of a sheet of ordinary paper.

Satin, by comparison, registered 120 millionths of an inch deviation or 300 times rougher than glass, while silk of 1920 vintage registered 190 millionths of an inch deviation.

In measuring the smoothness of a female hand, admitted by its owner to be of the "dishpan" variety, a plastic mold impression of the skin was taken, hardened, and run through the test. The impression measured 60 millionths of an inch deviation from "perfect smoothness" or twice as smooth as satin.

The new standard roughness specimens are the result of many years of effort to attain a simple, quick method of measuring roughness. At one time, roughness was left up to individual discretion, and almost everyone's discretion proved to be different. About 10 years ago, a large company established a system of symbols representing various degrees of roughness and made up a specimen of each degree. Because of the fine variance of each specimen, however, it was found difficult to reproduce copies of the master. Now under a recent method of copying applied, duplicates of master specimens have a tolerance of under five per cent.

The new standard roughness specimens, because of their simplicity, are of use to engineers, designers, inspectors, shop planners, and mechanics.

## ROTC Gives Advanced Course

By the order of the U. S. War Department in Washington, D. C., R.O.T.C. units throughout the country are now authorized to offer the Advanced Course in Military Training. The Military Department of Drexel Institute under the command of Colonel E. O. Goding has announced that the Advanced Course is tentatively expected to be reorganized this April. Some seventy-five letters have been sent to eligible students and a few replies have been made as this paper goes to press. The following requirements have been outlined by the department for eligibility. The student must be in his fifth term of Basic Course at the present time and between the ages of nineteen and twenty-six. The student must also pass a final type of physical examination given by the Army. For returning GI's a slightly different set of requirements have been issued. Army veterans with more than a year of service are automatically exempt from the Basic Course. If the veteran has not received a commission while in the service he is eligible for the Advanced Course. He will be required to pass the A.G.G.T. with 110 points or better. The ex-officers will have to wait until further notice comes from the military department of the school.

The Advanced Course corresponds somewhat to the O.C.S. in the regular Army. While under the Advanced Course, the student will draw a daily subsistence of sixty-six cents for six terms. He will also be given a uniform allowance of approximately \$87.70. Between the Junior and Senior year, the student will be required to attend a summer camp operated by the Army. While at this camp, regular Army pay will be drawn along with an additional five cents per mile traveling pay between the camp and school.

Classes in the Advanced Course will meet five times a week in addition to the regular drill hour.

The Military Department urges any student or GI who is eligible under the preceding regulations, and who has not already been contacted by letter to apply as soon as possible at the Military Department Office. Upon completion of the course, a commission will be granted to the student in the Reserve Corps.

### Spring Prom— Meeting

There will, in the very near future, be a joint meeting of all classes to discuss this year's coming Spring Prom.

WATCH THE COURT FOR ANNOUNCEMENTS.

## Technical Journal Progress

The first Drexel Technical Journal since 1943 will be published on June first, according to Raymond Zerewat, the Journal's General Manager.

A tentative staff has been organized and plans for the current year have been drawn up.

The Technical Journal is published by members of the Engineering school as a means of familiarizing the students with recent developments in the field of engineering. Its purpose is to present a clear picture of the job of the engineer and to indicate the prospective fields that a student may enter.

The Journal has access to a wealth of information through exchange with similar publications in twenty-five schools, among which are Massachusetts Institute of Technology, Cornell University, University of Iowa, University of Iowa, University of Missouri, and Ohio State University.

After the first issue is published, the Journal will be eligible for reinstatement in the Engineering College Magazine Association. The editors are confident that their application will be approved.

Early in 1943 when engineering enrollment dropped and members of the staff were being called into service rather rapidly, the Journal ceased publication because the budget would not permit the same high quality that had been set as the Journal standard. Its place was temporarily filled by a less expensive student publication, the Drexel Technical Reporter, which will put out one more issue before its staff joins the Journal staff for the June issue.

The Journal is published four times a year and is delivered to the subscriber whether he is in school, industry, or graduated. Later announcements will be made concerning subscriptions.

## Chaperones

(Continued from Page 1)

that the average faculty member does not like to chaperon parties because he does not receive proper attention and is "treated as a necessary evil."

Members of the committee were requested to suggest to the student organization which they represented, that more attention to chaperones in the form of short conversations, refreshments, and dinner invitations would make an evening more pleasant for the chaperones, and would have the far-reaching effect of relieving the present situation of chaperon scarcity.

Approximately fifteen faculty members were invited to Tuesday's meeting, but only five attended. At the suggestion of Norm Blesman and Don Sheetz, a subcommittee was found to approach not only these fifteen, but all faculty members to find out who are willing to act as chaperones, and what nights they generally are available. A list will be prepared and will be kept in the office of the Dean of Women.

Mr. Goldsborough commented that many faculty members have young children who cannot be left alone at night, and that there is great difficulty in obtaining a responsible person who will mind children for a few hours. Janet Conrad, president of the Women's Student Government Association, reported that there were a few responsible girls at the dormitory who would be glad to mind young children. Miss Barnes may be contacted at the dormitory for arrangements. And it was further suggested that the organization which invites the parents as chaperones assume the expense of providing the "baby sitter."

## Annex

(Continued from Page 1)

which will extend the facilities of Drexel to both veterans and high school graduates. These new students should be very grateful to the "Friends of Philadelphia" for the opportunity of enrolling at Drexel when enrollment in any college at this time is extremely difficult. It is hoped that these students will appreciate the sacrifices being made by the members of the faculty who will carry the extra burden set up by this new program. Only through cooperation with the faculty and due regard for other people's property can the new students voice their appreciation to those who deserve it.

## Engineers Schedule of Exams

Monday, March 18	
9 to 11 A.M.	Math 1 Auditorium, Rm. 311b, 234
	Phys 32 Rm. 115, 251
	Chem 82 Rm. 250
11:10 A.M. to 1:10 P.M.	Math 3 Auditorium
	EE 21 115
	ME 69 115
1:50 to 3:50 P.M.	Math 2 Auditorium
	ME 57 115
4:00 to 6:00 P.M.	Phys 31 115, 311b
	CE 12 353
Tuesday, March 19	
9:00 to 11:00 A.M.	Chem 1 Aud., 115
	CE 5 353, 251
	EE 4 250
11:10 to 1:10 P.M.	Chem 10 Auditorium
	Chem 12 Auditorium
	EE 43 162
	ME 66 151
1:50 to 3:50 P.M.	Chem 2 Auditorium
	CE 6 115
4:00 to 6:00 P.M.	Math 4 311b, 251
	ME 59 115
	Chem 80 250
Wednesday, March 20th	
9:00 to 11:00 A.M.	Eng 21 Aud., 115
	Chem 22 353
	ME 5 250
11:10 A.M. to 1:10 P.M.	Eng 23 Auditorium
	Chem 42 353
	Chem 52 353
	ME 15 250
1:50 to 3:50 P.M.	Eng 22 Auditorium
	Phys 33 115
4:00 to 6:00 P.M.	Chem 21 251
	ME 6 311b
Thursday, March 21	
9:00 to 11:00 A.M.	ME 1 Auditorium
	Math 15 353, 311b
11:10 A.M. to 1:10 P.M.	CE 2 115, 353
	Chem 85 251
	EE 65A 250
1:50 to 3:50 P.M.	CE 1 115, 311b, 353, 412
	Math 16 Auditorium
4:00 to 6:00 P.M.	Eng 24 311b, 115
	EE 2 251
	EE 5 250
Friday, March 22	
9:00 to 11:00 A.M.	MT 1 Auditorium
	MT 5 Auditorium
11:10 A.M. to 1:10 P.M.	MT 3 115
	BA 33 255
	Psych 5 Auditorium
1:50 to 3:50 P.M.	MT 2 115
	Eng 25 311b
4:00 to 6:00 P.M.	MT 4 115
	Ec 51 311b
Saturday, March 23rd	
9:00 to 11:00 A.M.	Chem 40 115
	CE 16 115
	Chem 50 115

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# Dragon Sports

## I.F. League Led By Theta Chi

### Undefeated Quintet Headed For Championship

During the past couple of weeks of pandemonium, no TRIANGLES and PTC strikes, the I.F. basketball league has been taking shape rapidly—with the unbeaten Theta Chi quintet looking forward to permanent possession of the trophy.

In the second night of play the Lambda Chis took the Apple Pies in a smashing final minute of play. Throughout the game the Apple Pies—led by their sparkplug, Chris Leone—held a small lead. Then in the last period the Lambda Chis took the situation in their own hands and took the game by a score of 27-23.

The TKES and Kay Phi Dees took off in the second game and it looked like a one-sided affair with Dick Dowd and Bud Landis racking them up—at the half the TKES led 12-8. During the intermission though, Larry Tecosky must have fed his boys Wheaties, because they really played heads-up ball, winding up the game and by-the-by, winning, 16-15.

The following Tuesday the Theta Chi and TKES played the most thrilling game so far. With the TKES winning at the half-time 14-7, it looked sad for the Theta Chi five. During the last quarter the score was tied and it was tit for tat until the game wound up in a tie. In the first three minute overtime both teams sank one and the score was again tied. Then in the second overtime Big Bill Kratzer racked up a two pointer and the game went to the Theta Chi, 22-20.

After dropping their initial game with the TKES it looked bad for the Lambda Chis and to put it bluntly, they took the floor with five men and a prayer against Kappa Phi Delta. But the favored team, minus Tecosky, really looked undernourished against the dead eyes of Johnny Liggins and Ken "Don't mind if I do shoot another" Goebel. With a final score of 40-13 in favor of Lambda Chi it looked as though they had finally policed-up the lead (from their dropping drawers, incidentally) and were headed for another leg in the cup.

## Co-eds Beat Albright

On February 13, the girls' basketball team played Albright in Drexel's gym. Displaying fighting spirit and great skill they won by a score of 36-19. Little Marilyn Schultz starred with 15 points to her credit.

The line-up was as follows:

DREXEL	ALBRIGHT
<b>Forwards</b>	
Schultz	Nox
Schindler	James
MacMillan	Wright
<b>Guards</b>	
Balderson	Mandel
Procter	Samson
Van Inwegan	Sichler

Two other games were played. One on February 9 with Swarthmore. Drexel lost with a score of 13 against Swarthmore's 18. On the 19th Chestnut Hill was victor over our team, 31-9.

In the next game the Theta Chi Steam Roller continued its advance and flattened the Kappa Phis and the TKES had a more or less hard time beating the Apple Pies. The final scores were 25-23 and 20-19, respectively.

On the closing night of the first round of play the Theta Chis met the Lambda Chis to decide the league championship. But it was strictly the maid's night out as far as the Lambda Chis were concerned. With Dick Ross sticking them up and Flea Hart covering the basket every time he shot, the Theta Chis won 27-20.

The same evening Kappa Phi met the Apple Pies and had little trouble in defeating the "Knights of the Celar." We have only one question to ask Chris Leone—"Your boys really didn't go home to listen to WDAS—or did they?" Final score: 31-19.

Last Thursday the second half of play got under way and as far as outcome is concerned it was the same old story for the Lambda Chis and Apple Pies. With a half-time lead of 16-17 for the TKES, Lambda Chi decided to start its vacation early and dropped the game 31-19.

Topping the night the Apple Pies gave the Theta Chis (minus their star, Bob Woodward) a hard time. Leading at the half 9-3, the "Bowery Brawl Boys" decided to rest up and only by a few tough breaks for Apple Pie did they take the game, 19-16.

So far this season no candidates for the Grantland Rice Selection, All-American team, have been discovered. But some great games, and thanks to you all in the cheering section, and a lot of fun are quite apparent.

Tops in the scoring detail we find Johnny Liggins—current Lambda Chi boast—with 49 points to his credit. In second place with 35 points is Dick Dowd—and don't think it isn't because he hasn't shot enough—but don't you know, that hoop is small!!!!

### I.F. LEAGUE STANDINGS

	W.	L.	%
Theta Chi	5	0	1.000
TKE	4	2	0.666
Lambda Chi	3	3	0.500
Kappa Phi	2	3	0.400
Alpha Pi	0	6	0.000

## Badminton Loses Three

The Drexel's Women's Badminton team, coached by Miss Darrah has met several opponents since the last Triangle went to press. On February 5, the team was defeated by Swarthmore with the score 5-0. Chestnut Hill was Drexel's opponent on the 12th when the team again bowed with the score 4-1. On the 18th the girls traveled to the Merion Cricket Club but failed to score against Bryn Mawr. The final score was 6-0.

## Bowlers Victors

Drexel's feminine bowlers swept away the honors from Penn University, February 12 with a score of 2103 over Penn's 1927.

The line-up was as follows:

<i>Drexel</i>	Benton—123, 141, 132
	Baker—105, 112, 151
	Kelly—161, 164, 152
	Margraf—123, 135, 126
	Sannino—130, 166, 182
<i>Penn</i>	Willer—117, 100, 112
	Corrie—112, 133, 95

## Rifle Team Scores Again

Still busy accumulating honors for itself, the Drexel Women's Rifle Team scored again during the week of February the 3rd, when it participated in a postal match against Northwestern University.

The scores were as follows:

Northwestern	
Margaret Knopp	97
J. L. Baldwin	96
Janet Finney	96
Jane Carle	95
J. S. Gieske	94
	478
Drexel	
Ina Casale	99
Betty Matheson	99
Elaine Menaugh	98
Myreta Keil	98
Eugenia Griffith	97
	490

On the evening of February the 14th, the Women's Rifle Team held its first shoulder-to-shoulder match with Beaver College. The match took place on the Drexel range. The results were sent to the National Rifle Association in Washington, D. C., where the final score will be determined.

Last week the Men's Rifle Team challenged the Women's Rifle Team to a shoulder-to-shoulder match to be played off on the Drexel rifle range sometime in the very near future. The grand prize of a steak dinner is to go to the victors, and is to be furnished by the losers. Look out, girls, don't forget that hamburger is made from steak . . . don't let those boys put anything over on you!!

## Lambdas, TKE Win

Tuesday night saw the Tekes run wild and pile up a score of 41-17 against the Kappa Phi's. The game started out with fast ball handling on both teams but the pace set by Dowd, Bitzer and Landis of TKE was too much and the Kappa Phi's fell behind at the half to the tune of 16-4. In the second half the Kappa Phi's racked up 13 more points, with Tecosky and Cooperstien finding the basket on some set shots. The Tekes continued to out-score them until the final whistle.

In the second game, the Lambda Chi's "rough and tumbled" their way over the Apple Pies and led at the end of the half, 17-11. Cragg, Liggins and Lyons continued to score in the second half and a trailing Apple Pie team tallied 12 more points in an effort to even up the score. Santolevi was high scorer for the Apple Pies with 10 points, while ex-Major Deisler was runner-up with five. Leone and Benethom had 4 apiece. Lyons was top scorer for the Lambda Chi's with 15. Cragg and Liggins stacked up 7 and 6 respectively, while Darref and Kees brought the total up to 35. The game ended with the Lambda Chi's leading 35-23.

Jinnie—148, 171, 119  
Jiemy—98, 147, 119  
Adams—123, 166, 193

Temple was Drexel's bowling opponent the former week and beat Drexel by 60 points. The score was 2223 to Drexel's 2163.

Virginia Kelly is the bowlers' very able captain and has been doing a fine job.

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# Lebanon Valley Gives Drexel Worst Defeat Now Twelve Straight

## DeStefano Shows Spark Against L.V.C. Mass Substitutions in Last Quarter Allows Ursinus to Win Out 39-36

### Foul Shots

Drexel vs. Heidelberg

Eddie Shipstad, co-owner of the Ice Follies, and Walt Brown, vice-president of Ice Capades and also general manager of the Olympics ice hockey team in the Eastern Hockey League, left for Europe the other day on a business trip. Brown intends to discuss with European hockey officials his proposed plan for an international league. The outgrowth of this action is ultimately an intercollegiate ice hockey league. Some time in the near future when a trip to Europe will take an hour or two, Drexel may stage a post season hockey game with Oxford, Cambridge, Leipsig, Moscow or the University of Heidelberg. Bon Voyage, Dawsie!

At Last

Have you noticed the large number of blue sweaters mounted with yellow "D's" being paraded around the school lately? The athletic department finally saw its way to awarding the football players and managers for their work in the fall term. If the opportunity presents itself, don't fail to notice Manager Hugh Clopp sporting a bright new letter.

What is the answer???

Way up in Lewiston, Maine, last week a new snowshoe record was made at the annual International Congress of Snowshoe Clubs. The half-mile record was shortened by five seconds when a Montreal medical student crossed the finish line in 3 minutes, 26 seconds. All of which makes us wonder if the D.I.T. basketball shoes had been replaced by snowshoes.

Their record is anything but impressive. The squad has lost twelve straight games, which indicates that something is definitely wrong.

The team on the whole appears to lack the spirit and enthusiasm of a winning team. Yet individually they are the makings of a fine team. In Joe De Stefano we have a newcomer who has rightfully earned his berth on the first string. His outstanding defensive and consistent all around good play through the season thus far has helped keep the team from completely falling apart. Bob Mason and George Hill jointly dominate the most improved player department. Bob Lowery and Len Sobel continue to play a fair if not outstanding brand of ball.

If such ingredients as these are used, why does such a poor mixture result? Is the coaching at fault? Who knows the answers???

## Bowling Team

—Enters Tournament

Our Bowling Team is planning to enter the National Telegraphic Bowling Tournament and Miss Sattlemeyer has great confidence in her girls.

We will enter the match in March and ten girls will participate; the five best scores will be mailed to the National Section on Women's Athletics of the American Association for Health Physical Education Committee.

On a beautiful Lebanon City High School court—which is only beautiful in comparison to Drexel's hatbox—the Drexel basketball team experienced the worst defeat of its season and perhaps in their entire history. The Dragons, seeming a bit reluctant to pass and work the ball around, came out on the wrong end of a very lopsided game, 60-27.

The Lebanon Valley squad was led by player-coach Frank Shupper who alone bagged 13 counters. Marshall Gemberling and Rinsio Marquette, who tallied 15 and 14 points respectively, took high scoring honors for the night.

Still trying to dent the win column in league competition, the Dragons dropped their seventh straight league game to Delaware, 48-41. With the lead changing six times and tied twice, the Dragons ended on the short end of a 27-23 half-time score. The Blue Hens scored seven straight points as the second half started to increase their lead to 32-23. Delaware's reserves took over from here and kept the game well in hand. Joe Mackey was high scorer for the Blue Hens with 11 points. The excellent defensive game of Joe De Stefano saved many more points from being scored against Drexel. De Stefano also took scoring honors for the evening making seven out of twelve shots for 14 points. Once again the Dragons were weak from the foul line, making only 11 out of 23 free throws.

### DREXEL

	G	F	P
Mason, F	2	4	8
De Stefano, F	0	0	0
Ellman, F	7	0	14
Drummond, F	0	0	0
Hill, C	0	0	0
Cetrone, C	3	0	6
Lowry, G	1	1	3
Katsoff, G	0	0	0
Endrusick, G	0	1	1
Sobel, G	2	5	9
	15	11	41

### DELAWARE

	G	F	P
Duncan, F	3	1	7
Wolf, F	1	0	2
Jones, F	2	1	5
Mackey, F	5	1	11
Kirkland, F	2	1	5
Lasker, F	0	2	2
Grossman, C	2	0	4
Bodley, C	1	0	2
Branner, G	0	3	3
Wolf, R., G	1	0	2
Neff, G	2	1	5
	19	10	48

On Wednesday night, February 21, Ursinus' championship quintet from Collegeville met Drexel's five on the Dragons' court. Ursinus expected little opposition and was soon away to a 5-2 lead, but a fighting Drexel team saw the possibility of an upset. A foul and field goals by De Stefano and Lowry sent the Dragons into the lead. With a tight defense holding Ursinus in check, the Dragons hit the cords twice more before the quarter, to hold an 11-5 lead.

Starting off again in the second period, the score mounted to 18-6 before Ursinus scored from the field. The rest of the quarter was all Ursinus, the Collegeville five scoring nine points while holding Drexel scoreless. However, Drexel's early lead was too much and the Dragons led at half-time, 18-15.

Hill's one-handed stab over the foul line started the action in the second half. The two teams alternated in bringing the ball up court and scoring. In this manner the score quickly mounted to 24-18. Drexel's scoring was evenly distributed, while Geist was doing most of the scoring for Ursinus. Two field goals for Ursinus and a foul by Drexel put the score at 30-31. Then with 30 seconds to play for the quarter, Love sank a field goal that gave Ursinus a lead that they never lost.

The first five minutes of the fourth quarter were scoreless. At this point three of the regulars were replaced and Ursinus sank two fast goals and with four minutes to play the score stood at 36-31.

Drexel scored again with less than three minutes left. From this point on neither team could score. A foul shot after the final whistle gave Ursinus another point. Final score 37-35.

Geist was the game's high scorer with 13 points on 5 goals and 3 fouls. Mason was second with a total of 10 points.

### URSINUS

	G	F	D
Love, F	3	1	7
Geist, F	5	3	13
Juppe, C	2	1	5
Poole, C	1	1	3
Kennedy, G	3	2	8
Bulmer, G	0	1	1
O'Donnell, G	0	0	0
Totals	14	9	37

### DREXEL

	G	F	D
Mason, F	4	2	10
Sobel, F	2	0	4
Ellman, F	0	0	0
De Stefano, F	4	0	8
Hill, C	2	0	4
Lowry, G	1	1	3
Kutsoff, G	0	0	0
Endrusick, G	2	0	4
Totals	15	3	33

## Swimmers Place First

This time there were a lot of Drexelites out to race the Beauer minnows in the Abington Y., on February 13. The second meet on the schedule chalked up a victory as the Drexel water sprites downed their aggressors by two points. The final score was 30-28.

Free-styling into a beautiful 26-second first-place finish Peg Ingram set the pace for Barbara Mack who placed first in the second race of the meet with the breast-stroke. The time was 32 seconds.

Against the high odds of Beauer's AAU aquatic star, Haffner, the Drexel mermaids took a second in the 40-yard back and an additional second in diving.

Out of the next three events the lassies took two firsts with Korn "crawling" into a 20-yard free-style first and anchor man Mack sailing in as winner in the 80-yard free-style re-

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