Pre-registration starting

Pre-registration for next semester will start Monday and end December 1, Raymond D. Moeo, registrar, announced early this week. Undergraduate division of the Admissions Office will be on the job to the last minute in attendance. Students are strongly urged to complete at least one week during this period. These will be held on the campus. Directions for completing

TECHNOLOGY NEWS

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November 12, 1970

 Elections scheduled

Freshman honorary to be installed

The Illinois Tech chapter of Phi Delta Epsilon, national medical honor society, will be formally installed Wednesday. The ceremony will be followed by a dinner for the officers and faculty advisors. The installation ceremony will be conducted by Warren Brown, dean of students of the Medical College of the University of Illinois.

Following the installation of the chapter, 96 officers and five honorary members will be installed. These honorary members include the following: President of the ITSA: John W. Atkisson, vice-president: John F. White, director of the ITSA development program: John L. Brouwer, sister of the chapter advisor and students, and Eugene Pavey, assistant dean of the medical college.

Class officers are Dick Roberts, president; Joe Bink, vice-president; Pat Nas, secretary, and Sherman Roberts, treasurer.

The class council includes: Lee Jacobson, Robert Prince, Kenneth Rice, and Lee Roberts.

Nomination petitions available Monday

Class officers for the spring semester will be elected by the student body December 15. Gary A. Peterson, chairman of the ITSA election committee, announced this week.

The office open to election are president, vice-president, secretary, treasurer, and social vice-president.

Nomination petitions will be available in the ITSA office in the South Union after 3 p.m. Monday. The election is to be held on December 3.

In order to have his name on the official class ballot, a student must submit an approved nomination petition to the office of the election committee.

"Petitions must be submitted with 25 signatures as well as a copy of the certificate of Eligibility," said Peterson. "This means that no man may sign the petition of a nominee unless he is a registered student of the class.

"Mailed out petitioned that points have less than 25 signatures or that Newmans plan barn dance

Barn dancing will highlight the Newman club all-night dance being held November 30 at the Colonnade. Admission to the dance will be 75 cents. Tickets are available from members of the club or at the door of the dance.

The Reverend Father Zehnder has been chosen host speaker for the November 13 meeting to be held at 9 p.m. at 15110. The topic will be "Modern Populism," a subject on which he is well qualified.

Dolnick rips T-H bill

"Free collective bargaining has been denied to almost every respect by the T-H bill," stated David Dolnick, chairman of the Collective Bargaining Group, at an assembly sponsored by the Business and Economics club Wednesday.

In this statement the complexity of the bill, which he said has "many holes" and "may open" the way for businesses and industries to expand positions in employees making known their interests and demands.

Mr. Dolnick stated that he understands the T-H bill, including the authors of the "Leaves of tax payers who know nothing of economics, politics, human or industrial relations. The provisions of the law are for both business and the employee added."

"This closed shop, which the T-H bill creates, is like a shop in which the skills belong to no one and which is operating with a trained skilled, and trained injured. Employment is usually compensated through the unions. Co-operation is required in most instances.

"The T-H bill is the antithesis of the union shop," stated Mr. Dolnick.

"What kind of a union shop can we call it," he asked. "A man that is fired, is fired, and is fired, and it is the man that is fired, and it has no place, it is in the public interest that this situation is not allowed to continue."

Mr. Dolnick stated, and pointed to the entire labor movement for the past 120 years of the labor movement for the past 120 years.
Guest Editorial

Prestige loss forcing engineers into unions

By William Harrison and James Farahni

In a large industrial plant in the midwest area employing thousands of people, the equipment engineers are in the process of organizing and affiliating themselves with a union. This is not unusual. It has happened in a number of large plants recently. Why?

Management has long looked upon the engineer as a part of management—as a professional man. They have felt that the engineer is on "their side" and is not to be lumped with the rank and file workers. The management does also realize that the engineer is a professional man whose education and background qualify him to do something better than "a mere job." One indication of this is the high salary received by engineers in large corporations. The underground

as I see IT

by RAY PASE

Editor-at-Large

since pre-registration is just around the corner, and that wailing question: "what option are yu?" is fast going to a few new engineers, ye side editor is going to devote a few minutes to the release.

Perhaps apropos, I recommend management to anyone offered the choice of this or that. He, no doubt, believes that the average technical is destined to direct basic corporations; I do believe that the education and experience offered the student in the management panorama more fully equips him to handle any job he encounters in another area. Management improvements? No; management courses are more practical; they can teach an engineer to effectively manage personnel, to understand current economic problems, and how to express himself, both orally and in writing. What skills are more valuable to an employer?

Certain areas of technical knowledge have been covered in the management options, but I am told as a very small item. All large employers and more than a few smaller ones in the past decade established training courses in which all engineering employees are thoroughly indoctrinated in secondary knowledge. Besides, to become a graduate of the Slapstick, who wants to be "just a tool engineer" or "just a tool foreman"?

It's obvious only Joyce wrote the election. How can a condition exist when you can't draw a funny monotone on his poster?

Slipstick

A justice of the peace in a small town was to perform his first marriage ceremony. The hushing couple remained standing after the final of the rings, and in a brave attempt to off-load the affair, the justice said: "It's all over now. Go on, and so am I!"

First shopper: Why, you seem to be tired. Second shopper: Yes, I'm trying to get something for my husband. First shopper: Any offers?

Blonde: Here's what we're going to do. Don't you want to give me a ride? Sailor: Sure, honey, what's your chance number?

Many an engineer envisions himself as a leader of men, but winds up as a follower of women -------

visitors are learned at mother's knee, whom are they? not so much.

Doctor: "I can't find any cause for your trouble. "BE" and, I might better come some more time when you're better!"

Sensational girls, understand, make bad colleagues. It seems they vanquish things so easily.

The reception was trying to put up an attractive blonde in the hotel lobby. "Don't bother me," said she. Crushed, he said, "Pardon me, I thought you were marrying."

She said, "I couldn't be. I'm married to a bachelor!"

An answering foreman who put a slapping on his shoe because his daughter wanted a quiet wedding.

accumulate your references and see what others.
Engineer tours HE domain

Eighth floor campus makes food experts

By Edward J. Michelle

Not many of us in the Federal stores 1010-rule set know what "Government Center" is or what part it plays in our lives. So, donning my slippers and grabbing a thermos, I took the elevator above the traffic-screaming post office to visit the Michigan to investigate. There I found the Home Economics Department and the Institute for Psychological Services hard at work.

In the eighth floor HE office, the attractive, red-haired secretary smiled, greeted me and presented me with a Miss Louise Nabors, head of the department. Patiently, Miss Nabors told me that for a regular tour of the premises and introduced me to her staff. I saw two Theremin engineers analyzing and classifying metal samples as part of the study they will make of the production and processing of fabrics.

Food and meal preparation has changed with modern use and electric equipment. A car room adjoined the meal lab for meal service practice. In the corner stood the glassed-over container of flowers which I was admiring (to "look at, but don’t touch") by my watchful guide.

Here, in surroundings more like home, I began to relax, untried. I would be returned to a makeshift integral sign. But the refrigerators were empty that day. So I was a drum that I have seen and felt the cold and futures prospective houses. The department was producing. This was a mistake. The HE instructors quickly informed me that the girls were being given training for professional service.

Kiva to sponsor painting exhibit in North Union

An exhibit of water color paintings by Friedrich Karl Richter, associate professor in the history and literature department, will be presented by Kiva in the North Union from next week Monday to Wednesday.

This showing will be an entirely new collection of Dr. Richter's work representing 40 years of painting. The exhibit will run through the 1976 season to the American's last exhibit. Kiva will involve all the students of its activities to those interested in its activities to attend the next meeting. Meeting times and place are posted on the bulletin board at 1100.

EE's to hear K. J. Howard on Tuesday

K. J. Howard of the Bell Telephone company will speak before the AIEEE Tuesday at 1 p.m. in the AIEEE auditorium. At an interview last week, Dr. Howard was asked how the engineering students of Illinois Tech make up their HE. Since his talk, makes and destinations will be served to all present.

Two new appointments have been announced by Jim Karpowich, chairman of AIEEE. Larry Murphy is new chairman of the AIEEE committee on the department, and has requested that all men who desire to enter a paper for the Horace AIEEE contest shell see him for information.

Although, the membership, in the student branch of AIEEE now exceeds 300, the largest in the history of the common organization, Karpowich feels that many EE students still desire to join, and have not yet had the opportunity. Membership cards will be available Tuesday at the meeting.

Unpaid integral bills due Friday

The deadline for all unpaid organizational bills for the 1948-1949 is set for the last day of the semester. All members who have trouble with their membership fees are urged to pay in full. The meeting place is the 1100 house. Meeting time is 10 a.m.

SAE to tour Johnson plant

"High Pressure Cooling System for Fugitive Engines" will be the subject of a talk by George Heimann of the Young Engineers Corporation at the meeting of the Society of Automotive Engineers at 1 p.m. in 1100.
Flames spout from MH; they're only coal gas tests

Those flames spouting from the fifth floor window of Machin- ery Hall are nothing to worry about, and C. von Fredersdorf, project supervisor for the Institute of Gas Technology, wishes that alarmed Techhawks would stop sounding in false alarms because of them. These false alarms have been reported in recent weeks.

The flames are the result of experiments on the combina-
tion of pulverized coal being performed under the sponsor-
ship of the American Gas Association. The goal is a gas which can be used either as


easy gas or as the starting point for the production of gasoline and alcohols.

When asked how the project was coming along after the last fire-alarm episode, Mr. von Fredersdorf answered, "It is showing progress."

Alumni meeting features annual sports smoker

Presidents of alumni clubs of Illinois Tech will meet on the campus in Chicago, November 18 and 20 for the Illinois Tech Alumni association's 59th Presidents' Conference. The two-day program will in-
clude talks by President Hard and other members of the Insti-
tute's administrative staff, the annual Sports Smoker sponsored by the Alumni association and Honor-
l and honors tours.

First Again with Tobacco Men!

More independent experts smoke Lucky Strike regularly than the next two leading brands combined!

An important poll covering all the Southern tobacco markets reveals the buying preferences of a man who really knows tobacco—mer-
ers, buyers and venders. More of these independent experts smoke Lucky Strike regularly than the next two leading brands combined.

Offices have cards

(Continued on page 11)

Just to give your voice a lift

When you make a long distance telephone call, your voice would soon fade out were it not for vacuum tube repeaters. They give your voice a lift whenever needed—carry is clearly from coast to coast.

Vacuum tubes and other electronic devices are playing an ever-greater part in your Bell telephone service. As the manufacturing unit of the Bell System, Western Electric is not only making telephones, but all the other things.

To produce them to higher standards of precision and at lower cost, Western Electric has just completed its new Altoona, Pa., plant—latest addition to vast telephone making facilities. Now, and in the years ahead, this new Western Electric plant will help to make your Bell telephone service better than ever.

Western Electric

A UNIT OF THE BELL SYSTEM SINCE 1883
Scrimmage sharpens Hawks' claws

Tie Harry's Owls in Friday practice session

By Larry Shaffer

Three Tech basketball fans who stayed around Friday night for the scrimmage between the Owls and Harry's Owl club were treated to an exciting game. The Scarlet and Gray showed brilliant possibilities for the immediate future.

The final score was 77-70 in favor of the Owls, and one of their finest players, Ed Kistler, led the Owls with 27 points.

IM elimination meets started

The IM elimination tournaments have started rolling. IM baseball, by keeping most of the available players in the mix, has been the most successful so far. However, IM tennis is not far behind.

Two of the original eleven volleyball teams have met with disaster. The Maroons and Sibley's Maroon and Grey teams both eliminated the Maroon and Grey and D. E. Smith respectively. It is now left to the top three teams in the league to see who comes out on top.

The regular season ends on Saturday with the first round of the playoffs. The top three teams in each section will battle for the championship.

IM basketball draws 15 clubs

The IM basketball tournament will begin early next week. This year, in addition to the usual teams, a new team has entered - the University of Illinois (Harry's Owls). The Owls' tournament will be held on Thursday night.

Rifle club buys new Winchester

Henry Hemmert, secretary of the rifle club, announced a meeting of all members Tuesday night at the Tech Union.

"It is imperative that everyone get their rifle permits," he said.

The club has bought a new Winchester model 52.

Tech coeds invade gym to organize volleyball tourney

By Wesley Grace

The IM League has received a new look and I don't mean a longer look. The gym has been invaded by members of the weaker sex who have expressed their desire to participate in their favorite sport, volleyball.

Fencers enter A1 tournament

With the first collegiate meet until December 4, our informal fencing team has entered the meet at the University of Chicago. The first five fencers will be entered in each of the individual events - épée, sabre, and foil.

The tournament is on a round robin basis and will be continued on Sunday, starting at 11 a.m. for those fields which have entered. The competition is quite moderate, but the event will be a good opportunity for the participants.

Die Hards down Gymmies, gain berth in IM finals

The Senior Die Hards entered the IM football finals by virtue of their 9-7 win over the Gymmies at the Armour Square field Wednesday.

With the score tied 7-7 and 15 seconds remaining, the Die Hards, led by Bob Keating and John Allison, converged on Ed Kistler and fumbled him for a safety and the big two points that meant victory. Due to the new third-string condition of the field, the entire first half passed without a score. Both teams' running games were held down, and effective kicks would not get the field for long passes.

Late in the last half, Jerry Mathias, Gymmies end, and Jim Johnson, Die Hards, were injured when they collided head-on during a play in which Ed Kistler and Jim Johnson, Gymmies back, ran around his right and then cut back. They were taken to Dr. Simon's, M.D. Dr. Smith served 11 stitches in Johnson's forehead, and one below Mathias's eyebrow.

This was the only score of the football season.

The Die Hards kicked off to open the second half, and in three plays, G. O. Glenn started up and placed the ball near the white line. Rerick threw a pass to Larry Gayler in the end zone for the score, and Jimmy Wexler caught a pass from Rerick for the extra point.

Kopy of blanking and deft punting, the Pom-Megs' point-after attempt was missed on the last five field goals. Johnson's sudden desire to clear of his defense and caught a long pass (from Bob Keating for the score), and Jimmy Wexler caught a pass from Rerick for the extra point.

ACTION IN THE HIPPO-MIRAL lass the team from Bloomington prepares to receive a kickoff. The techies hope to keep the ball away from the Gymmies.

Record smoker crowd awaits Olympic movies

The largest crowd in the three-year history of the Honor One Alumni Sport Smoker is expected to be on hand for this exciting event Friday evening.

Interest in the smoker is running high among members of the student body. A decision on the type of smoking is expected to be made soon.

Die Hards go south

By Ben Steiner

If the Techies, harriers due off during the season, Sunday morning, don't return on time, they are scheduled to hit the road in front of the Illinois Tech Gymnasium on 8 a.m. Saturday morning.

There is one consolation: For the first four hours, the Techies will be the only team in the running of the Illinois Normal Invitational cross-country meet at Bloomington, III.

Once down in Bloomington, the boys must not be frozen out by a snowstorm or the roar of the crowd. A snow, wind, or rain day may be a poor prospect of lightly tripping over four miles of rough, rocky country that is not always conducive to a cheerful disposition.

One of the coaches who should not mind the early rising on cold weather, though, is Al Astich, who placed 13th in the Loyola Invitational meet Saturday.

The rest of the team has been untilled, so it is not possible to match the pace of the fast-stepping Astich. At both the Loyola Invitational and the De Paul meet last month, the Techies were the second team in order of finish.

In cross-country, this isn't good.

Cotton can't be the deciding factor. It is expected that the Illinois Tech cross-country team will be the only team in the state to compete against the outside competition.

The remainder of the team has been unable to match the pace of the fast-stepping Astich. At both the Loyola Invitational and the De Paul meet last month, the Techies were the second team in order of finish. In cross-country, this isn't good.

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Rain, mud fail to stop I.F. ball

As the I.F. tournament squad trains this week, the circuit still has 4 undefeated teams - all having one loss and was one-loss. Most of the second round teams were played in the rain and mud, determining the standard of play.

Playing against the entire game near midfield, Triangle and Alpha Sigma Phi battled to a scoreless tie on Monday. Theta Xi topped Sigma Alpha Mu from the tournament by whipping them 12-0 at a neighboring field November 2. Lloyd Smith had his third ejection, blocking a touchdown on long run.

By Dick Johnson, the Delaware whipped Sigma Phi Pi and Lambda Chi on November 2. On the following day Delta Sigma Rho defeated Alpha Epsilon Pi, 8-2.

They said, “You can’t do it!”

But Du Pont scientists developed a synthetic rubber with superior properties

“Synthetic rubber is an impossibility at any point,” declared a material chemist a number of years ago. And most people were inclined to agree because for more than a century chemists had been unable to duplicate natural rubber.

Du Pont scientists know that all rubber had bad qualities as well as good. “Why struggle to duplicate its beauty?” they asked. “Why not try a new chemical compound with all the good qualities of rubber, but none of its harm?”

They took as their starting point a discovery by Dr. A. A. Neurens of Notes Danes in connection with the polymerization of acrylonitrile. By modifying this process they made monovalent acrylonitrile. Adding hydrochloric acid, they made a new chemical compound called chloroprone - a thin, clear liquid at low temperatures. Like lubricants, it polymerized to form a rubber-like substance. But, new material, now known as neoprene, required no mixing for vulcanization and was superior to rubber in many service conditions. It is the neoprene synthetic rubber.

Neoprene production is measured in millions of pounds a year, even though it is priced higher than natural rubber. Hardly an industry is not using it, for such good reasons as these: neoprene products resist deterioration by oil and gases. They stand up under exposure to direct sunlight. Their aging and flame-resisting properties are superior to those of rubber.

Three types of the Polyneon research: Modern research involves time, money, manpower. To develop neoprene, for example, took six years of laboratory study; a research and development expenditure of millions of dollars; plus the work of skilled research chemists, physicists, engineers, and other scientists.

All Du Pont research is continuous. Some of it is designed to develop new products or processes, some to improve existing products or processes; and the balance is fundamental. Its purpose is to uncover basic facts without regard to immediate commercial use. Each of the various manufacturing depots in other parts of the country and operated much like a separate company. But, new material, now known as neoprene, required no mixing for vulcanization and was superior to rubber in many service conditions. It is the neoprene synthetic rubber.
Psych service division gives vocational help

(Continued from page 7)

warm "bells" may have made the same noise as if I had used over a hammer for some reason. No evidence of such activity is yet forthcoming. I am not sure that this is the main event of the day, but that it is probably the most significant. So far, the only evidence we have that it is important is the statement "four percent of the people read a grade level of ability."

Psychological Services accommodates an average of 24 people daily and has typically spread through 44 states, 51 provinces and foreign countries. Industry and employment everywhere recognize the importance of specific and general aptitude tests in providing for well-adjusted and efficient personnel.

Since the process is painless and increases the chances of finding a desirable job, we hope that many will take advantage of this service.

Belgian prof tours physics dept. light lab

Jules D'Heur, professor of electrical engineering at the University of Liege, Belgium, visited the physics laboratory of the department of physics Wednesday.

Dr. D'Heurson is a member of the department of experimental physics at the University of Liege, Belgium. His work is concentrated in the field of nuclear physics. He has made contributions to the study of the behavior of nuclei and the properties of elementary particles. His research has led to a better understanding of the fundamental forces that govern the behavior of matter.

D'Heurson is also interested in the development of new methods for the study of nuclear processes. He has been involved in the design and construction of new accelerators and detectors, which have allowed for more precise measurements of nuclear reactions.

D'Heurson's work has been recognized with numerous awards and honors. He has been a visiting professor at several universities, including the University of California, Berkeley, and the University of Oxford, England.

MATH SEMINAR - Karl Marriott, professor of mathematics at Illinois, will speak on "The Role of Randomness in the Design of Mathematical Models" at 8 p.m. in the main lecture hall of the Engineering building. The seminar is open to all students and faculty, and is free of charge.

Ireson speaks to SAM Thursday

W. C. Ireson, former editor of the Tech newspaper and now an instructor in Production Management, will address the SAM Thursday at 8 p.m. in the main lecture hall of the Engineering building. The seminar is open to all students and faculty, and is free of charge.

Tech timetable

SUNDAY, NOVEMBER 14

MORNING SEMINAR

TUESDAY, NOVEMBER 16

Science and Technology

WEDNESDAY, NOVEMBER 17

Economics and Business

THURSDAY, NOVEMBER 18

Mathematics and Engineering

FACULTY MEETING

FRIDAY, NOVEMBER 19

Computer Science

HOLLOW SOUND: The "EBIT" 3 ways

...and to teams helots

P. J. Moore, eldest son of the late R. P. Moore, was recently appointed head basketball coach at Tech. He is expected to lead the team to success in the upcoming season.

HOLLOW SOUND: The "EBIT" 3 ways

...and to teams helots

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Student directory issue date moved to Dec. 6

The date of appearance of the Illinois Tech Directory has been moved to December 6, according to Sherwood Benson, editor of the publication.

On that date the publication will be sold in 214 Benson. Sales will be limited to students. Technology Center personnel will have 1,500 books, already paid for by the institute, available for their use.

In explaining to a Technology News reporter why the date of distribution was moved ahead several days, Benson commented, "Since the only equitable way the books can be distributed in a first come first served basis and since no issue of the paper will be published after the Thanksgiving week-end holidays, there is a possibility that some students would not be informed and hence would not have an equal chance to purchase the book."

Art Ruddy, co-business manager of the directory, indicated that from the present production figures, the actual cost of each book is about 60 cents per copy. However, advertising in the book will function as a subsidy to the extent of approximately 15 cents per copy, enabling the staff to sell the book at 50 cents, and Miss Ruddy.

Chesterfield is building another big, new factory for us smokers who like the Milder cigarette... It's MY cigarette.

Arthur Godfrey
Radio's Favorite Son
Star of Chesterfield's
Arthur Godfrey Time

I wish I could take you in my Navion plane over the big, new factory Chesterfield is building at Durham, N. C. It's a honey. It will help supply the ever-increasing demand for the Milder cigarette.