RICHARDS NAMED JUNIOR WEEK HEAD

Lee Richards, junior civil engineer at the- Illinois Institute of Technology, has been named Junior Week head. Richards, who is a member of the IIT board of control, was selected from a field of three candidates by the IIT's faculty and student council.

The position of Junior Week head is one of the highest honors that can be bestowed upon a student at IIT. Richards has been active in student affairs since his freshman year, and has held a number of positions in the student council.

THEOLOGY NEWS

ITSA Election commission clarifies voting procedure

Five ITSA offices will be open for candidates in the all-school elections on Wednesday and Thursday. The offices will be open from 10 a.m. to 5 p.m. on both days.

The election commission has clarified the voting procedure for the elections. All students who are registered to vote are eligible to cast their ballots.

The commission has also reminded students that they must present their ID cards to vote.

SHURRAGAN'S CAT OFFER HOPE TO PARALYPISTS

By Bert Cohn

The Associated Press recently ran a story in newspapers all over the country reporting on the experiments of Doctors Phil Wilkerson and Harriet Shurrigan. The spinal cord paraplegic, who had been trained to walk during paralpvisus, has been trained to walk again.

The Associated Press story noted that the experiments were conducted in further experiments. There were other letters from paralpigists, wanting to know how they could be helped after their own doctors had given up hope. All were included were letters from Articular Society, condemning the experiments on "poor helpless cats," even though the operations were failed.

The article reported on a 24-week-old kitten whose spinal cord had been cut. Seven weeks later the cat could walk again. It could walk as far as fifteen feet and change direction without falling over, if it didn't turn too rapidly. Every day it exercised on corrugated cardboard, and its kindResponse was improved. In another week the kitten was able to walk again, and it repeated itself to a lesser extent, as far as fourteen feet and change direction without falling over.

By the sixth week, the kitten was able to move with confidence and full coordination of its legs.

With the knowledge gained from these experiments, the Shurragans hope that the methods of conditioning a spinal cord cat can be extended to human paraplegics.
More obstacles listed for IIT football lovers

Last week a few of the problems facing football enthusiasts were presented. Here are some problems and a list of essentials that must be had before a football team can be fielded.

What are the problems in the order of personnel and equipment? Well, we need a good head coach and three assistants for the line, backfield, and freshman squad. A good trainer is essential. We should have one for all our teams. He must be a first-aid man, an expert in general and camp, and over the health condition of all players.

We must have a doctor on the practice field at all times as well as on the playing field. A mental delay, a broken neck or careless handling of the injured must be watched.

Remember, these boys will be blocked and tackling in their regular season; they will be in deadly earnest. Hospitalization plans and medical facilities must be available.

Gymnastic equipment starts with hot tub baths, electrical massage machines, force-loaded electrical machines, swimming baths, hot dryers, medical supplies, dry clothing, dry scales, and uniformed guards on account of weather!

For the world outside, we must have uniforms, nose guards, shin guards, football shoes, extra chest, charging devices, tackle dummy, goal post markings, and equipment for a minimum of 23 players on a varsity squad, 18 for practice, and at least 26 players on the freshman squad. Why freshmen? They learn opponents' plays, take a beating on the off season and provide competition for varsity posts.

We need a field to play on. It must be a well-drained field, with a soft turf that can be protected completely with tarps in case of snow storms. Open field could be used for practice, but only after the track and baseball diamond are eliminated and the field reconditioned. It also must be equipped for floodlights. Open field, however, is allocated for new buildings, so that new

MAD PLEASE SANTA A STRAIGHT REPORT CARD

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as I see it

by EM HANCOCK

THE CHRISTMAS CONCERT this was an inspiring program. I have never seen so many Techskeeps play a concert with such a little, attentive, attractive audience. The orchestra, for instance, was playing a moving “Adoration” by the great choir.

The audience was quiet between numbers, but that spontaneity enhances the performance. I was pinned down to a piano in front of the piano, where I have been moving “Adoration” to the use of the gel choir.

At last the audience was quiet between numbers, but that spontaneity enhances the performance. I was pinned down to a piano in front of the piano, where I have been moving “Adoration” to the use of the gel choir.

Of course the audience was quiet between numbers, but that spontaneity enhances the performance. I was pinned down to a piano in front of the piano, where I have been moving “Adoration” to the use of the gel choir.

On the third night of the concert, the audience decided to stop abruptly and ask for more. This is the third all-school function at which such a lack of respect has been demonstrated.

It would be nice to have more time available to the Christmas concert. The program is so worthwhile it’s a shame we can’t have the program run into the next year.

This conflict with instructor’s plans, however, in making full use of the hours remaining before the “vacation” begins in early January. Last year, the academic dean bore the brunt of faculty wrath for permitting what were considered much too many deadline classes. If they all enjoyed the music as much as I have, however, an exception might be made for the Christmas concert.

ORCHIDS to Campus Players for last week’s terrific dramatic performance. The actors have been the most successfully managed student entertainers this semester. Besides being a good show, it is a hopeful breath of newness in the “vacation” schedule with which some have been identified.

FOOTBALL ENTHUSIAST (sneaking in from the side) is just a bit calmer in their cries for a team. Illinois Tech when they have finished the second article on the subject by “October John” Schmoker this week. Actually, the information is so condensed from the detail it could take a story in a newspaper. But we have been more detailed when the half of million dollars needed to field a team is enough to build a stadium! Another warning, there is the tremendous cost involved, which is about the withdrawal of University of Illinois, St. Louis, from the football arena. Their team reputed to be worth more than $100,000 last year. I don’t think that our football enthusiasts want to see that kind of risk.

Slipstick

A little six year old boy came to his father with the inevitable question, "Where did I come from?" The father had been expecting to hear the question for some time and was fairly prepared.

When he finished his thorough and factual explanation an hour later, he asked his son "Why did you want to know where I came from?"

The boy answered, "My boy friend, Johnny, comes from Toledo, and I wanted to know where I came from."

"You were brought in here for drinking," lectured the police sergeant, the historian.

"That might be fine, Son," replied the culprit. "Let’s just get started."

Jenna: "She married him when he was a struggling young engineer."

Ted: "Really?"

Ava: "Yeah, he was struggling in the arms of her father and brother."

There’s nothing like having a baby around to make a person realize that it’s a changing world.

Advises more term quizzes

To the Editor:

I am making examinations more comprehensive. In my course discussions with my students on campus, I find that the material is not being absorbed.

In all engineering courses, and especially on campus, I think some students do not rely on course work. I suspect that a minimum of 5 pages be given during the semester, including the final. Actually, any assignment from 5 to 7 would be nearly ideal.

These are my reasons, as well known by most students:

* The fewer the tests the more material will be recalled precisely by the student for each test.
* There comes a time in every student’s semester when he doesn’t feel up to snuff and may write a bad test. Adequate tests during the semester may smooth out his average.

Giving the student less to remember may aid them in fulfilling assignments which, apparently, still rampant.

Decreasing the amount of some students who are in degrees of quality. This is a partial list that could probably be supplemented by many others. However, I think that this list is inclusive enough. There are a few non-thinking students who are non-accountant like this who hate every time a quiz is announced by the instructor. I don’t think that they are cutting their own throats as well as the laurels of their fellows.

Think it over.

Alan Platt

TECHNOLOGY NEWS

A young student, holding a high chair, was surprised to see his mother holding a shopping bag.

"What are you doing with that?" asked the young student.

"I just got a new computer," replied the mother.

"A computer?" exclaimed the young student. "What do you need a computer for?"

His mother replied, "I just got a new computer. It’s a laptop, you know."
High school students to hear career talks

ITT, together with the Sun Times and the Chicago Technical Societies will once again sponsor the second annual career conferences for high school students on December 27-29 to be held on campus. Aimed at the goal of providing the future leaders of industry and society with details of the careers they may choose, the conferences will begin with an introduction by President Henry T. Hoefle, who will introduce Mayor Martin H. Kennelly.

Over 200 students will talk about 70 various fields by tech timetable

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>FRIDAY, DECEMBER 16</td>
<td>10:00 a.m.</td>
<td>NYU and The Rook, 313 WASU</td>
<td>Financial leaders</td>
</tr>
<tr>
<td>SATURDAY, DECEMBER 17</td>
<td>9:00 a.m.</td>
<td>NYU and The Rook, 313 WASU</td>
<td>Business leaders</td>
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<tr>
<td>TUESDAY, DECEMBER 20</td>
<td>10:00 a.m.</td>
<td>NYU and The Rook, 313 WASU</td>
<td>Engineering leaders</td>
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<td>WEDNESDAY, DECEMBER 21</td>
<td>10:00 a.m.</td>
<td>NYU and The Rook, 313 WASU</td>
<td>Science leaders</td>
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FIREFIGHTERS AND ENGINEERS PREPARED BY EXPERTS

To the man on the street, carbon monoxide is just a poisonous gas that sometimes causes tragic death when it escapes from the exhaust of an automobile or from a poorly tumbled furnace.

Outsiders of the chemical field, few people are aware that, properly used, it is a very real friend of man. In the last 25 years, during which catalytic

THE DU PONT COMPANY

FRESHERMEN SOPHOMORES

AN ALL AMERICAN NEWSPAPER, WISHES TO ENLARGE AND DEVELOP ITS BUSINESS.

UNDERCLASSMEN WHO REALIZE THAT THE VALUE OF EXPERIENCE IN ADVERTISING, CIRCULATION, BUDGETING, AND THE OTHER IMPORTANT BUSINESS OPERATIONS ON A PUBLICATION ARE ENCOURAGED TO JOIN THE STAFF.

This is an excellent chance to partake in an outstanding activity with many rewards.

POSITIONS WITH ADVANCE RESPONSIBILITY FOR UNDERCLASSMEN WITH ABILITY.

The reaction of methanol with carbon monoxide leads to acetic acid, which is a well-known industrial chemical. By the same synthetic but substituting ethanal for methanol, propanoic acid is obtained. From it comes the “Pyrochlore” sodium and calcium propionates that retard mold and rope in bakery products.

SYNTHESIS IN THE FUTURE

The Du Pont Company manufactures over 150 different items that are partly or wholly dependent on elevated carbon monoxide.
The Silver and Gold

Editors, Business Managers

Selected From

The Coka-Cola Bottling Co., of Chicago, Inc.

33rd and Princeton

 resolving the puzzle of new cement material

By treating dirt like popcorn, research Foundation hopes to lower while providing lighter, stronger.

Thomas C. Miller, supervisor of the Foundation, has been investigating clay and shale deposits, beating them until they expand and form materials similar to mixing with cement. These components, which form 50 per cent or more of the volume of finished concrete, are called "lightweight aggregates."

"In concrete, the aggregate is just as important as the cement itself is the binding material," he said. "The lighter and stronger the aggregate, the better the concrete construction."

Clay which has been expanded—or popped up—into cells full of air, enables builders to use a light, tailor-made aggregate in concrete.

Miller pointed out the new material, which is light enough to float in water, has several points in its favor.

Firstly, there is more flexibility in construction because structural numbers need not support as much weight. Lighter beams can mean less building cost.

Secondly, the large amount of air in the expanded aggregate will add insulation and improve acoustical properties.

And lastly, the aggregate is not expected to break down as do the particles from naturally occurring clay and related materials located near the producing plants.

"The lightweight cost tends to decentralize this industry," Miller said. "It can be made and delivered from the plant in the vicinity of the project and is less expensive as delivered freight charges and that mining materials close at hand could reduce construction cost."

Miller predicted that a plant set up in the Chicago area to manufacture the new cement would be completed by next summer.

Radio club plans equipment contest

Neatness and practicality of construction are the keys to success of the contest that is being sponsored by Illinois Tech's Radio Club. Equipment-building contest prizes will include test equipment, transmitters, and subscriptions to Radio TV News. Open to members only, the three chances of entry being considered are: the novice, the engineer and design class, and the advanced class, each open to licensed amateurs and advanced experimenters.

Entry of judging and announcement of the judges will be announced. Prizes and winning equipment will be displayed in the Illinois Tech bookstore through the courtesy of Paul Fox, bookstore manager.

Radio Club Plans Equipment Contest

Kroc asks: Can you take an active interest in your class affairs by nominating a representative for the Radio Club?

Positions are available in the Radio Club. Four positions will be filled. Information will be available at the Radio Club meeting, Thursday, November 5, at 7:30 p.m.

"Topper" ghosts top SAM film after vacation

Adhering to its new policy of "four shows a month," the SAM Film Program has announced films scheduled for the remainder of the semester. Free of admission charge, the four-hour program will appear at 2 p.m. and Thursday evenings at 7:30 p.m. All screenings are in 3113C. (Topper Takes a Trip)—listed for Tuesday, November 3, at 7:30 p.m. Director Young, Constantine Bennett, and Billy Barty are among the guest stars. (The Invisible Man) will be featured on November 17 at 7:30 p.m. (The Invisible Man) will be featured on November 17 at 7:30 p.m. (His Invisible Woman) also will be featured on November 17 at 7:30 p.m.

After last year's survey, instructors were polled by the HRC for comments on the ratings. Of those polled, 69 percent of the faculty replied, almost all expressed approval. Several instructors said they had changed their teaching methods.

Throughout this year, at least 130 schools have inquired about our method of handling the rating system.

BOY'S TAP FRANKIE'S GRILL

OPEN TILL — 10 p.m.

BEVERAGES

SODA FOUNTAIN

BEER

HOME MADE SAUCE

OPEN TILL — 10 p.m.

BEVERAGES

SODA FOUNTAIN

BEER

HOME MADE SAUCE

OPEN TILL — 10 p.m.

BEVERAGES

SODA FOUNTAIN

BEER

HOME MADE SAUCE

OPEN TILL — 10 p.m.

BEVERAGES

SODA FOUNTAIN

BEER

HOME MADE SAUCE

OPEN TILL — 10 p.m.

BEVERAGES

SODA FOUNTAIN

BEER

HOME MADE SAUCE

OPEN TILL — 10 p.m.
Hobby fan Golick lauds marriage

By James Gevartwski

Hobby fan Golick looked down and said a bit excited, “What’s the matter?” I asked, “Tell me what.”

“Tell me,” he replied, “one of my hobbies was just started.”

He then proceeded to talk about his new hobby, which is the collection of model trains. He has been collecting trains for several years and is now looking to expand his collection.

Golick’s hobby has been a passion for him and he enjoys spending his free time working on his collection. He has even built a custom train room in his basement, where he can display his trains and work on them.

In addition to his hobby, Golick also enjoys reading and listening to music. He is a big fan of classic rock and roll and often listens to his records while working on his collection.

Golick’s hobbies have helped him to relax and unwind after a long day at work. He believes that having a hobby is important for maintaining a healthy work-life balance.

Overall, Golick is very happy with his new hobby and looks forward to continuing to pursue his passion for the foreseeable future.
Swimmers drown Bradley in 45-21 victory

Tech Sports

Well balanced attack takes meet; face Loyola tonight

By Ted Spack

A greatly improved Loyola swimming squad will host the Illinois Tech men tonight at 8 o'clock in a meet they hope to avenge last year's defeat at 300 yd. Reseratere.

The Tech will be trying for their second win in a row as many start when they meet Loyola. Be sure to check the Bradley University by the score of 50-31. This score was almost identical to the results of last year's defeat by Bradley.

Although plagued by Illini's slow relay, Miege, and Gray outdid themselves by taking six out of nine firsts in the Bradley meet. Ted Campbell and Ken Watson, although ill, continued to swim at the last minute and were responsible in part for the squad's spectacular victory. Together they clinched the swimming meet when they swam a close race to reach the No. 400 yd. freestyle. Eric Lehen advanced further as this race came by taking second in the 220 yd. freestyle section.

Close finishes were the order of the day in the Bradley meet. One such finish occurred when Bob Campbell swam a tie for first place in the 220 yd. backstroke. Bob had been trailing throughout the race which had turned the pace up to speed, but managed to outdo the Bradley backstrokeers as just as the race ended.

John Mitchell secured even his twentieth victory in a row and by the combination of Campbell, Ziehler, and Lehen in the 200 yard medley relay.

Results:
100 yd. Medley Relay (1) ITT (Campbell, Ziehler, Ayers, and Lehen) 2:00.8 (2) IT (Mitchell, Hoorelbeke and Morgan) 2:02.0 (3) THR (Hill, Howard and Stone) 2:06.6

50 yd. Freestyle (1) Ziehler (ITT) (2) Campbell (ITT) (3) Hoorelbeke (ITT)

100 yd. Freestyle (1) Mitchell (ITT) (2) Campbell (ITT) (3) Givens (ITT) and Hoorelbeke (ITT) (4) Schmieder (Burke)

Fancy Diving (1) Hoorelbeke (ITT) (2) Spring (ITT) and Brown (ITT) (3) Lehen (ITT) (4) Murphy (ITT) and Morgan (ITT)

Halfback

80 yd. Breastroke (1) Campbell (ITT) and Budeck (ITT) (2) Campion (ITT) (3) Vohle (ITT)

Tech wrestlers face Macomb

Last Saturday night, Bradley University's wrestling team faced the Illinois Tech men in a pinning contest held at 7:15, held at Bradley's Fieldhouse.

Al Bade, James Lingeson, and Jerry S. McEachin all made it two in a row by taking their matches at the opening of the meet. A victory was recorded by Al Fire and Captain Dan Jones; but a heart-breaking loss was suffered by winning his first match at 110 pounds. Captain Dan Jones lost a heart-breaking loss by winning his first match at 110 pounds.

Tomorrow at 1:00 p.m. in the Tech gym, Coach Tony Bushby's much improved squad will face Macomb College in their free home meet.

Cagers seek second victory over Lake Forest on Forester floor

By Marks Levy

Tonight's game against Lake Forest marks a new season of the Forester for the Maroons. Always the victims of some sort of jinx when they play on the Forester floor, the boys will try to overcome it when they try for another win. Last Saturday the Maroons dropped their first game of the season, losing to Chicago by a 60-44 score.

The Maroons seem to be completely played out both physically and mentally after the terrific battle with Mintelwego State Teachers last Thursday. The Maroons game was a real knock-down, drag-out affair with the score tied at halftime and at the regulation end. "Big Georgie" Resekovich fought off the three Mintelwego men that towered over him to get his share of rebounds and lead Tech to the overtime win, collecting 16 points and 10 free throws.

George really showed his class against Mintelwego. when he can score 24 points against opposition like that he faces regularly. The Maroons lacked the usual fire power in the first half, the ball just wouldn't go through the hoop. While this was going on, the Maroons were scoring at a better than 60 percent pace, the shots they were making breaking the Techwogs' backs, and Chicago pulled away to an 11 point lead to coast to their 60-44 win.

The Freshman team will play the preliminary game against Lake Forest. The Freshman squad was defeated by Lake Forest 64-40 last week.

Lake Forest has a record of 2-1, and is favored to win this game.

IM SPORTS: Several questions have arisen about the unknown activities of various men on the various IM teams. To clarify some of these questions here are the correct rules taken from the IM sport constitution and by-laws. From Art, I, Section I, on Eligibility: All members of IM teams and any non-members of IM teams shall be eligible for IM-Match competitions in IM-Match Competitions but not eligible for all-games. Section II: Additional to members shall be made, but not be entered with IM-Match Competitions but made in the IM-Match 26 hours before the scheduled game. Section III: In the event of a championship in any sport, a player must have appeared in the lineup at least two games and must be counted in the lineup. Section IV: A player with professional experience may not compete in the sport or his skill. Section V: A player having entered one student team may not enter another student team under approval of the Intercollegiate examiner. Any team member will forfeit all team involved in the game and the win will be awarded to the opposition team.

Protests are covered in Article II, as follows: Section 1: All protests must be registered with the IM director within 2 hours after the contest. Section 2: Protests other than eligibility must be made on the field of play. All protests must be in writing and presented to the IM director or his designee in the contest office. Section 3: Decisions rendered on protests are final and binding.

Postseasons are covered in Article III: Section 1: Postseasons can be granted only by the IM director. Requests for postseasons must be made a reasonable amount of time ahead of the contest time. Reasons for the postseason must be justified.

In all cases of dispute, the Interuniversity and the Interuniversity director and the Interuniversity Council shall have the final word on rules interpretation and shall make the final decision. All protests are covered by regular intercollegiate rules, except as provided in the regulations of the Interuniversity Department.

VARSITY BASKETBALL: Efficiency ... ! The Maroon frontcourt was mighty cold last Saturday over... at least as far as the shooting of the Scarlet and Gray were concerned... we couldn't buy, borrow, or steal those whiteout the Cit Boys were wearing their nets at a terrific clip... we should reach them up, but good, when they come here. !

See ROTC SCORES on page 7
Tech Prep Tournament opens December 26

Parker Austin, CVS menace Commandos

Austin, Parker, Vocational, Cabinet and Von Steuben seem to be the chief threats to the Marshall Commando dominance of the Illinois Tech Tournament. Austin’s senior quintet has equalled five strong opponents along the shooting of guard Floyd Youngburg, the Tigers this week toppled Ferrisport to remain undefeated.

Parker (the team that stopped the Marshall juniors at 90 before in ’44) will try to throw up a road block to stop the Commandos.

The south section Colonels have seen five opponents to the award,-member club from the Catholic, Public and Private school leagues among their victims.

Vocational’s city champions junior team will face hands with their high brothers to try and even the score against the Commandos (last week the senior Cavaliers succumbed to Marshall 64-52).

Colonels, winners in four of five contests and semi-final last year, girls for south section competition (who’s in the south section?) where the Indians are defending champions. “Hot hands” in the south section are Vocational, Parker, South Shore, Hyde Park, etc., etc.

Von Steuben, north section powerhouse, finally felt the sting of defeat at the hands of another.

PREP TOURNAMENT SCENE—the International Amphitheatre basketball floor.

Arch’s upshetto week’s IM bucket play

By Bill Felton

The Pudlak A. C. emerged from last week’s Intramural competition with a very surprising victory over the highly rated Arch’s quintet. Pudlak got off to a good first half was ahead by a 15-16 score. The second half unfolded a scoring drive which tied the score at 24-24, forcing the game into overtime.

The Pudlak, however, were not to be denied. Norm Katz’s bucket with just a few seconds of the overtime remaining gave the Pudlak’s 29-26 win. Hank Lacky scored 11 points for the losers while Jack Duff of the Pudlak was good for 10 points.

Another close game of the week was the Rosanski drop a 23-20 loss to the P.J.C.L. Sherman Roberts personally accounted for 10 points on the 1.9’s 1-4 shot from Blaisdell 53-17.

The Wolves remained among the unbeaten teams as the result of 29-16 victory over the Blue Whales.

Other scores of the past week were

Shabazz 29, Erzba 19

Accidents 26, Fowler Hall 19

In just a few seconds you can prove PHILIP MORRIS IS DEFINITELY LESS IRRITATING than the brand you’re now smoking!

Everybody talks about PLEASURE, but only ONE cigarette has really done something about it.

That cigarette is Philip Morris!

Remember: less irritation means more pleasure. And Philip Morris is the ONE cigarette proved definitely less irritating, definitely milder, than any other leading brand.

NO OTHER CIGARETTE CAN MAKE THAT STATEMENT!
News in Brief

Two new Marine Corps Reserve units, the 1st Heavy Anti-aircraft Artillery group and the 15th Signal company, have been activated. Accepting veterans and non-veterans, the units offer hourly pay of $3.35, plus free uniforms, technical training, college correspondence courses, and retirement benefits. Tuesday and Wednesday evening sessions are held between 6 and 10 p.m. in the Marine Corps Reserve Training Center, 500 West 36th.

A rush demand for candy rapidly sold out the Home Economics Club's candy supply in their annual half-hour sale Tuesday morning. Proceeds of the sale are to be used for building the Home Economics scholarship fund.

Members of the committee in charge of the sale were Elaine Kerzner, chairman, Pat Dowling and Dolores Dain.

All residents of Purr and Pawler halls who want their rooms for next semester are required to make applications for same. Applications may be secured from the residence hall counselors and then taken to the Bureau's office with a $10 deposit. No rooms may be assigned without this application and deposit.

The integral staff has announced that today and tomorrow are the last days to make additions to the biographies of seniors graduating in January, June and August.

Those interested should fill out the blanks provided at the integral office door in the South Union.

2c OFF

Per gallon of gas sold to any IIT student, staff or faculty member—as well as a nickel discount on oil, and expert grease jobs at a dollar.

JOE PASIK'S TEXACO SERVICE 29TH AND WABASH

P.S.—Just say "Illinois Tech"

Give 'em all my Christmas Best

Milder

CHESTERFIELDS

Arthur Godfrey