

VISUAL DESIGN problems are studied by Eugene Winslow and Ruth Huemdorf at the Institute of Design, now merged with IIT.

Institute of Design new IIT department

The Institute of Design officially became the department of design of Illinois Institute of Technology, December 9.

Henry T. Heald, president of Illinois Tech, Serge Chermayeff, president of the Institute of Design, and Crombie Taylor, secretary of the Institute of Design corporation, signed the final papers at Illinois Tech.

Absorption of the Institute of Design leads to a large expansion in physical size and student enrollment for Illinois Tech. The business operations of the ID and its three-story building at Dearborn and Ontario streets, will be assumed immediately by the parent institution. Incorporation of the 400 students of the ID into Illinois Tech's 3500 student body awaits the academic decisions of the parent school's accrediting authorities and the necessary action of the ITSA to define the status of the ID students.

No immediate attempt to relocate the entire facilities, student body, and staff of the Institute of Design is expected. For the present the newly created design department will continue the ID curricula in industrial design and visual communications but the architectural school will be moved immediately to Technology Center. The Institute of Design's architecture students will be permitted to transfer to Illinois Tech's department of architecture.

Last clue given for Xmas spirit

FLASH . . . ! Lloyds of London is giving 1.637 to 1 odds that the "Christmas Spirit" is none other than Cal Q. Luss, who gained fame as Henry Holmes' ghost writer, and was recently selected "Custodian of Model Fords." Can this be correct? The whole world will know tonight when the "Spirit" is unveiled at the Sherman Hotel during half-time ceremonies of the "Winter Whirl" dance.

Here are the first three clues and the final hint to the identity of the "Christmas Spirit":

1. His name is in the new directory . . . you all know him and read his publication.
2. Distinguished . . . our phantom looks like the head of a department . . . Break down, Reb, and give this guy some credit for a change!
3. Came to IIT at the age of 16 and the teachers say if our spirit doesn't turn over a new leaf, he'll never graduate.
4. The Christmas Spirit is a veteran . . . with Island duty, too! His name? You ask . . . well, here's his card . . . A banknote before security, and a product of the bookstore.

Competitive job outlook for 1950 engineer grads

"Approximately two engineers will be competing for every available job in 1950." This statement summed up "The Job Outlook for the 1950 Graduate" as seen by Maynard M. Boring, vice-president and manager of Technical personnel for General Electric Company. Four hundred placement-conscious seniors crammed into the Chemistry building auditorium Tuesday at 4 p.m. to hear his remarks. Mr. Boring was former chairman of the Manpower committee of the American Society for Engineering Education.

He cited figures gathered by the committee revealing the successful placement of 82 percent of the



BORING

1949 graduating classes and the surprising 92.6 percent placement of those who completed engineering educations in 1932 to 1934 during the height of the depression. He assured 1950 graduates of eventual placement, but reminded them it would require their persistence and patience.

"They might not get the jobs they wanted in the first place," he revealed, but then, if anyone thinks he knows what he wants to do, he is wrong.

"People change their views as they age," he continued. "'Hitch your wagon to a star' is bad advice; one should rather keep an open mind."

The next placement lecture will feature Paul W. Boynton of Socony Vacuum Corporation, who will speak on Tuesday, January 10.

Richards named Junior Week head

Lee Richards, junior civil engineer, was appointed combined head of Junior Week-Open House by the Illinois Tech Student Association's board of control, Wednesday night. Marty Hoeft and George Aravosis, both juniors, were named Junior Week and Open House chairmen, respectively, by the board.

Nine candidates were interviewed for the three positions during the three and a half hour ITSA session.

Richards, former vice-president of the sophomore class, is a member of Delta Tau Delta, Beta

Omega Nu, ASCE, and the Interfraternity council. Hoeft, an industrial engineer, is a member of the election commission and the Society for the Advancement of Management. Aravosis, a mechanical engineer, has been active in school elections and class functions.

"The emphasis of Junior Week-Open House activities will continue to be on building greater appeal to the many high school students, parents, and visitors who are attracted to the spring affair," Richards stated.

"However, we shall also do our

best to encourage and promote purely student activities for which Junior Week was originated," he added.

The first task facing the three appointees is the recruiting of men for publicity, business, art, and other staffs. Volunteers for Junior Week-Open House work can offer their services by personally contacting any of the three men or through the Junior Week box in the campus post office. The committee personnel of JW-OH may be composed of students from any year.

TECHNOLOGY NEWS

Volume 49, No. 12

Illinois Institute of Technology, Chicago 16, Illinois

December 16, 1949

ITSA election commission clarifies voting procedure

Five ITSA offices will be open for candidates in the all-school elections on Wednesday and Thursday, January 11th and 12th. The offices to be filled are four class presidencies and the junior member-at-large.

As in past years the system of preferential voting will be exercised. Under this system the voter marks opposite the candidates for a given office numbers indicating his first, second, third, etc., choice. As the final tabulation is made, the ballots marked for the lowest ranking candidate are distributed among those marked as second choice, and so on until a majority is reached.

In order to clarify any doubt in the mind of anyone who is uncertain about the offices to be elected and by whom, the election commission has authorized the publication of the following directive.

If you are in your first semester, you will be electing your five class officers for your second semester only. You will also vote for the junior member-at-large. You are eligible to vote, as well as run for any of these offices.

If you are in your second semester, you will elect class officers for one year. That is, for your third and fourth semesters. You will also be electing a junior member-at-large and are eligible to vote as well as run for these offices.

If you are in your third semester, your present class officers will remain in tenure until the June elections. However you are eligible to vote for, as well as run for, the office of junior member-at-large.

If you are in your fourth semester, you will be electing your class officers for your next year, that is, for your fifth and sixth semesters. You, moreover, will elect a junior member-at-large. You may run and/or vote for class officers, but you may only elect a junior member-at-large.

If you are in your fifth semester, your officers will remain in tenure until the June elections. You may vote for the junior member-at-large, however.

If you are in your sixth semester, you will be electing your class officers for your seventh and eighth semesters. You are also eligible to vote for, but not run for, the junior member-at-large.

If you are a seventh or eighth semester student or a graduate student, you are not eligible for candidacy for any office, but you may vote for the ITSA's junior member-at-large.

For any further information consult the Election Commission Directive published Wednesday, or contact one of the following election commission members:

Don Lynch, Milton Cox, Tom Murphy, Ira Graham, Marty Hoeft, Frank Lynn, Wesley Ooms, Jim Lang, Fred Wright, Bert Cohn, Dick Kaplan, Wally Kaiser, Joe Bass, Dave Miller and Pat Stroner.



ELECTION COMMISSION MEMBERS are charged with regulating important all-school political competitions in January.

Shurrager cats offer hope to paraplegics

By Bert Cohn

The Associated Press recently ran a story in newspapers all over the country reporting on the experiments of Doctors Phil and Harriet Shurrager. The Shurragers had reported that spinal, or paraplegic, cats had been trained to walk during ex-

periments carried on at Illinois Tech.

Letters from all parts of the country began arriving almost immediately, some asking for more information, others condemning the work as inhumane.

"Until now, it had been generally accepted that walking was impossible without direct nerve connections to the brain. Working in laboratories on the fourth floor of Chapin Hall, the two psychologists isolated sections of the spinal cord in cats and demonstrated that learning could be accomplished in the hind legs. And they showed that use of the hind legs could be relearned in both "acute" and "chronic" cats, that is, cats whose spine had been cut recently and cats who received spinal injuries some time in the past.

Unfortunately, it is not yet known whether these methods of conditioning can be successfully applied to humans, but the experiments have renewed hope in many paraplegics. One boy from Washington wrote Dr. Shurrager a letter requesting more information.

A woman in Alabama, unable to walk because of a spinal injury, offered to come to Chicago at her own expense and become a guinea

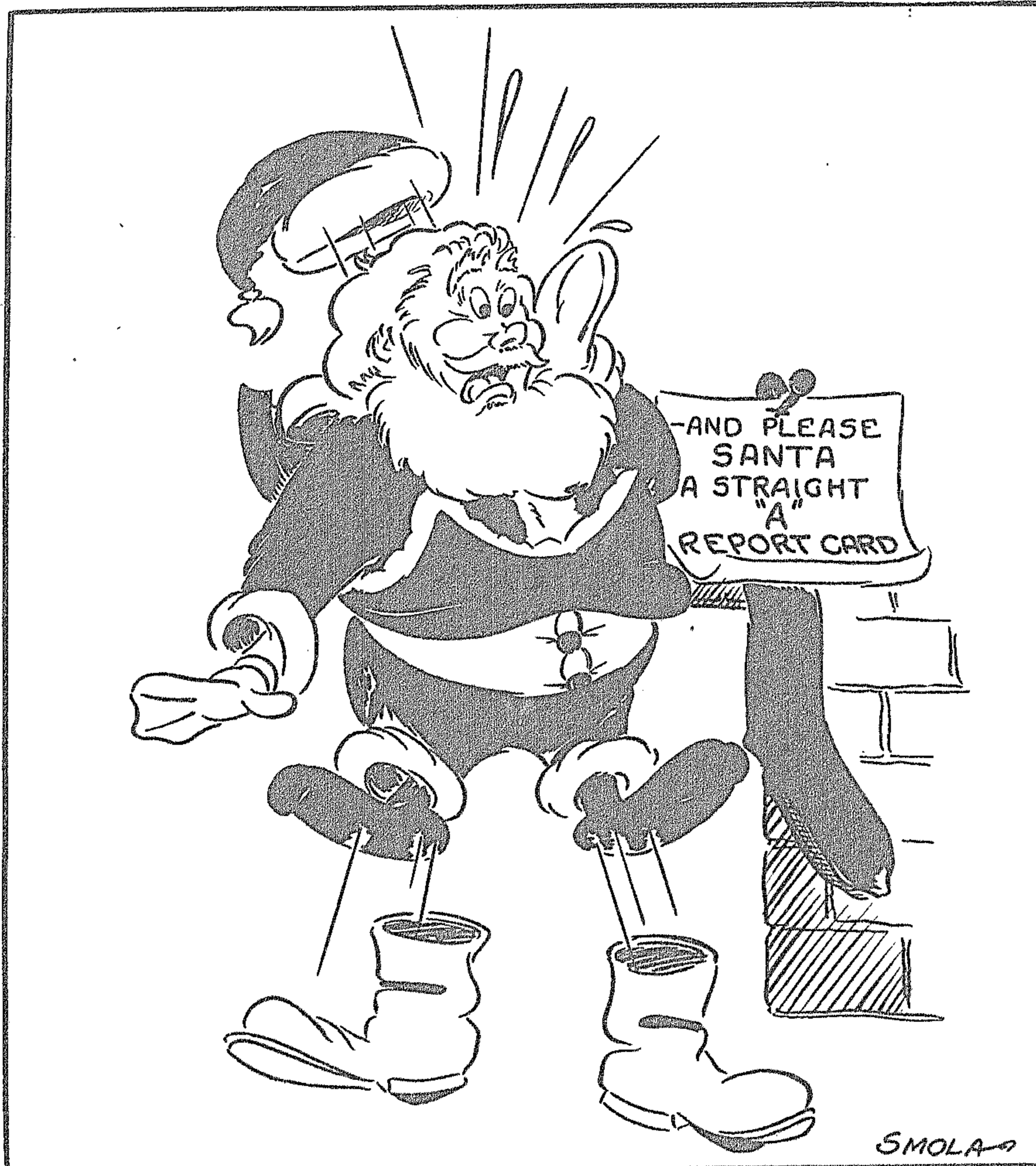
pig in further experiments. There were other letters from paraplegics, wanting to know how they could be helped after their own doctors had given up hope. Also included were letters from Anti-Cruelty societies, condemning the experiments on "poor, helpless" cats, even though the operations are painless.

The article reported on a four-week-old kitten whose spinal cord had been cut. Seven weeks later the cat was at times able to 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 hind legs were massaged. In another three weeks the kitten could stand alone, and soon it repeatedly raised itself to a standing position without aid.

By the ninth week, the kitten was able to move with confidence and fell only when attempting to go too fast. Its training period ended in the thirteenth week when it could crouch, jump, leap, and turn corners as easily as a normal cat.

With the knowledge gained from these experiments, the Shurragers hope that the methods of conditioning a spinal cat can be applied to human paraplegics.



More obstacles listed for IIT football lovers

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

What are our problems in the way of personnel and equipment? Well, we would need a good head coach and three assistants for the line, backfield and freshman squad. A good trainer is essential. We should have one *now* for *all* our teams. He mends equipment, is first aid man, rubdown expert and general overseer of the health condition of all players. He needs at least four assistants—possibly trained students working part time—to help him when the squads finish practice.

We must have a doctor on the practice field at all times as well as on the playing field. A moment's delay with a broken neck or careless handling of the injured may mean death. Remember, these boys will not be blocking and tackling in sheer roguishness; they will be in deadly earnest. Hospitalization plans and medical facilities must be available.

Gymnasium equipment starts with hot tub baths, electrical massage machines, heat penetrating electrical machines, swirling baths, hair dryers, medical supplies, drying ovens to dry uniforms soaked in rain, snow and mud. Remember, a football game is not called off on account of weather!

For the work outdoors, we must have uniforms, nose guards, shin pads, football shoes, extra cleats, charging dummies, tackling dummies, goal and line marking equipment for a minimum of 33 players on a varsity squad, perhaps 50, and at least 25 or 30 players on the freshman squad. Why freshmen? They learn opponent's plays, take a beating on our offense 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 tarpaulins in case of snow storms. Ogden field could be used for practice, but only after the track and baseball diamond were eliminated and the field reconditioned. It also must be equipped for floodlights. Ogden field, however, is allocated for new buildings, so that new

land would have to be purchased and developed.

Despite our prevailing heavy scholastic schedules, our student players will need another course, a lecture and lab in football. They must learn offense, defense, rules and strategy. The rudiments of the game such as blocking, tackling, punting, place kicking, passing, dodging, "straight-arming," etc., must be practiced over and over until the right actions become habit.

If this training is to be up to date and on a par used by our probable opponents, we will have to have a motion picture camera and projector to study the team's performance.

There are a great number of plays to learn; they must be done with speed and precision. This is a time consuming task, because it involves perfecting the movements of every player. Even after four years of high school football and four years of college football, it is safe to say that few players, if any, know all the rules of the game. Much time must be devoted to key players, particularly quarterbacks, to teach the governing rules so as to take advantage of the knowledge when strategy is involved. The elements must be so well mastered that the key men have time to analyze opponent's weaknesses, playing time left, wind velocity and direction and the countless other factors which may weigh in the balance of victory.

Granting that these conditions be met, who will serve as opponents for our football team? Would we play small engineering schools and colleges of art and literature, or those on our present baseball and basketball schedules? Would we want to take on as many as six to eight games a season?

If you think we can tackle "big time class A" teams, you had better be prepared to add sports public relations personnel, many more coaches, scouts of the opposition and of local high school talent, a ticket department, a stadium and its maintenance crews, scholarships for excellent players, salaries for the players, and, oh, yes, we must have a schedule. We cannot

see FOOTBALL on page 4

as I see IT

By ED MICHELIC

THE CHRISTMAS CONCERT this week was an inspiring program. I have never seen so many Techawks give such silent, attentive tribute to a performance as they gave when listening to the moving "Adoramus Te" sung by the glee club.

At first, the audience was quiet in between numbers, but then spontaneous enthusiastic applause delayed the program. It was evident that the program was going to run overtime as 2 p.m. neared. A few minutes after the hour, some of the audience made a noisy exit, causing Mr. Erickson to stop abruptly and ask for quiet. This is the third all-school function at which such a lack of courtesy 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 hour.

This conflicts with instructor's plans, however, in making full use of the hours remaining before the "vacation feeling" sets in. Last year, the academic deans bore the brunt of faculty wrath for permitting what were considered too many dismissed classes. If they all enjoyed the music as much as I did, however, an exception might be made for the Christmas concert.

ORCHIDS to Campus Players for last week's terrific dramatic performance. Theirs has been the most successfully managed student entertainment this semester. Besides being a good show, it is a hopeful break in the succession of student socials which have not done well at the box office.

FOOTBALL ENTHUSIASTS may be just a bit calmer in their cries for a team at Illinois Tech when they have finished the second article on the subject by "Uncle John" Schommer this week. Actually, the information is much condensed from the detail it could take in a longer series. But who wants much more detail when the half million dollars needed to field a team is enough to stop us cold? Another warning as to the tremendous cost involved could be taken from the withdrawal of Washington University, St. Louis, from the football arena. Their team reputedly lost them \$100,000 last year. I don't think that our football enthusiasts want to run that kind of risk.



Advises more term quizzes

To the Editor:

I have a plan for making exams more comprehensive. In cursory discussions with many students on campus, I find that the plan is agreeable to most.

In all engineering courses, and closely related ones, such as BE, math, and in general, those courses that do *not* rely on essay type tests, I suggest that a minimum of 5 tests be given during the semester, including the final. Actually, any amount from 5 to 7 would be nearly ideal.

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

The fewer the tests the more material must 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 between quizzes will cut down on cheating tendencies, which apparently are still rampant.

Decreasing the tension of some students who are in dread of qualifying for the second reason.

This is only a partial list that could probably be supplemented by many students. However, I think that this list is inclusive enough. There are a few non-thinking students (there are creatures like this) who howl every time a quiz is announced by the instructor. I don't think they know that they are cutting their own throats as well as the larynxes of their fellows.

Think it over.

Alan Platt

TECHNOLOGY NEWS

Published every Friday during the school year by the students of Illinois Institute of Technology, 3300 S. Federal, Chicago 16, Illinois. Entered as second class matter October 10, 1949, at the post office at Chicago, Illinois, under the Act of March 3, 1879. Represented for national advertising by the National Advertising Service, Inc., 425 Madison Ave., New York 17, N. Y. Advertising rates furnished upon request. Subscriptions—Domestic: \$1.50 per term. Foreign: \$2.00 per term.

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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 fully prepared. When he finished his thorough and factual explanation an hour later, he asked his son "Why did you want to know where you 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 to the inebriate.

"Thash mighty fine, Sarg," replied the culprit. "Lest get started."

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

Ted: "Really?"

Jean: "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.

A girl had received three pay cuts. Her comment: On the first, there went my dollar lunches; on the second, my nylon hose; and on the third, my amateur standing.

A professor of obstetrics at the University of Glasgow experimented with anesthetics for use in childbirth. When he was knighted for his outstanding work, it was suggested that he adopt as a coat of arms, in commemoration of his work, "a wee naked bairn" with the accompanying motto, "Does your mother know you're out?"

Young doctor, to his bride: Don't get suspicious about the greeting I got from that beautiful, tall, gorgeous blonde. She's just a girl I met professionally.

Bride: "Who's profession, yours or hers?"

Pickles to pickles, and pork to pork, When Doc said "Triplets," I shot the stork!

By Carbolic Gussie

High school students to hear career talks

IIT, together with the Chicago 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 their chosen careers, the conferences will begin with an introductory and welcome by President Henry T. Heald, who will introduce Mayor Martin H. Kennelly.

Over 2500 students will hear talks about 70 various fields by

tech timetable

Items appearing in Tech Timetable are those which have been scheduled with the Dean of Students' office.

FRIDAY, DECEMBER 16

AIEE Fowler group, 11 a.m., NU aud.
Eta Kappa Nu, 2 p.m., IHC room
Chess club, 4 p.m., SU lounge
Deans coffee cletch, 4 p.m., Exec. conf. room
IVCF, 5 p.m., AH conf. room
Polish club, 7 p.m., 214C
Winter Whirl dance, 8 p.m., Sherman Hotel

SATURDAY, DECEMBER 17

Weissman luncheon, 11 a.m., NU lounge
ARF party, 5 p.m., Exec. conf. room
Alpha Sigma Phi party, 8 p.m., Frat. house
ARF EE dept., 8 p.m., NU lounge
Triangle party, 8 p.m., Frat. house
Delta Lambda Xi, 8 p.m., Brown Hall

TUESDAY, JANUARY 3

Delta Zeta, 1 p.m., 202MC
IAS, 1 p.m., 208C
IVCF, 1 p.m., 105C
Model Airplane club, 1 p.m., 102C
Senior class placement, 1 p.m., 103MC

WEDNESDAY, JANUARY 4

Mechanics Colloquium, 8 a.m., 115CB
ARF chorus, 12 noon, NU aud.
SAM movies, 2-4, 4-6 p.m., 131 MC

THURSDAY, JANUARY 5

Co-op club, 1 p.m., 108MC
SAE, 1 p.m., 115CB
SAM meeting, 1 p.m., 101MC
WSE, 1 p.m., 131MC
Fluid Mech., 4 p.m., 101MC
SAM movies, 6-8, 8-10 p.m., 131MC

FRIDAY, JANUARY 6

Chess club, 4 p.m., SU lounge
Deans coffee cletch, 5 p.m., AH conf. room
IVCF, 5 p.m., AH conf. room

leaders in their respective vocations. The more well-known speakers will be Rogers Hornsby, Bob Elson, Pat Flanagan and Gene Kessler on sports; Irving Pflaum of the Sun-Times and Nelson Algren, author of "The Man with the Golden Arm," on writing and journalism; Senator Scott Lucas, Alderman Robert Merriam and Everett Dirksen on politics; Keith Andes of "Kiss Me Kate" and George Kuyper, manager of the Chicago Symphony, on music; Karl Nagler, vice-president of the Peoples Gas Light and Coke company, on gas technology; Dr. Gustav Egloff, president of the Western Society of Engineers, on chemistry; and several popular teachers on IIT's campus will add their services.

Students attending the conferences will write essays about their chosen careers. The six best essays will be selected and the winners will be given an all-expense-paid trip to Washington, D. C., during the spring vacation.

Seniors make change in dress for 'Farewell'

Three separate petitions presented to the January '50 senior class officers brought about a reconsideration of the type of dress for the Senior Farewell. These petitions requested a change from optional to semi-formal dress, and representatives presenting the petitions explained that the major reason was to eliminate embarrassment to girls who might attend in street-length dresses.

In order to avoid misunderstanding, the following definition of semi-formal for this affair was set up by the senior class officers and class representatives: Women are to wear dinner dresses or formals; men are to be in business suits or tuxedos.

The Senior Farewell will be a dinner dance on Thursday, January 26, in the Gold room of the Congress Hotel. The initial price of a bid is \$10, payable to class representatives at a booth to be opened in the NU lobby after the Christmas holidays. Any surplus in the class treasury shall be given out as rebates to those attending the Farewell.

FRESHMEN SOPHOMORES TECHNOLOGY NEWS

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

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

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POSITIONS WITH ADVANCE RESPONSIBILITY FOR UPPERCLASSMEN WITH ABILITY

THE DU PONT DIGEST

FOR STUDENTS OF SCIENCE AND ENGINEERING

CARBON MONOXIDE... FRIEND OF MAN

Thanks to high-pressure synthesis, it now leads a useful life

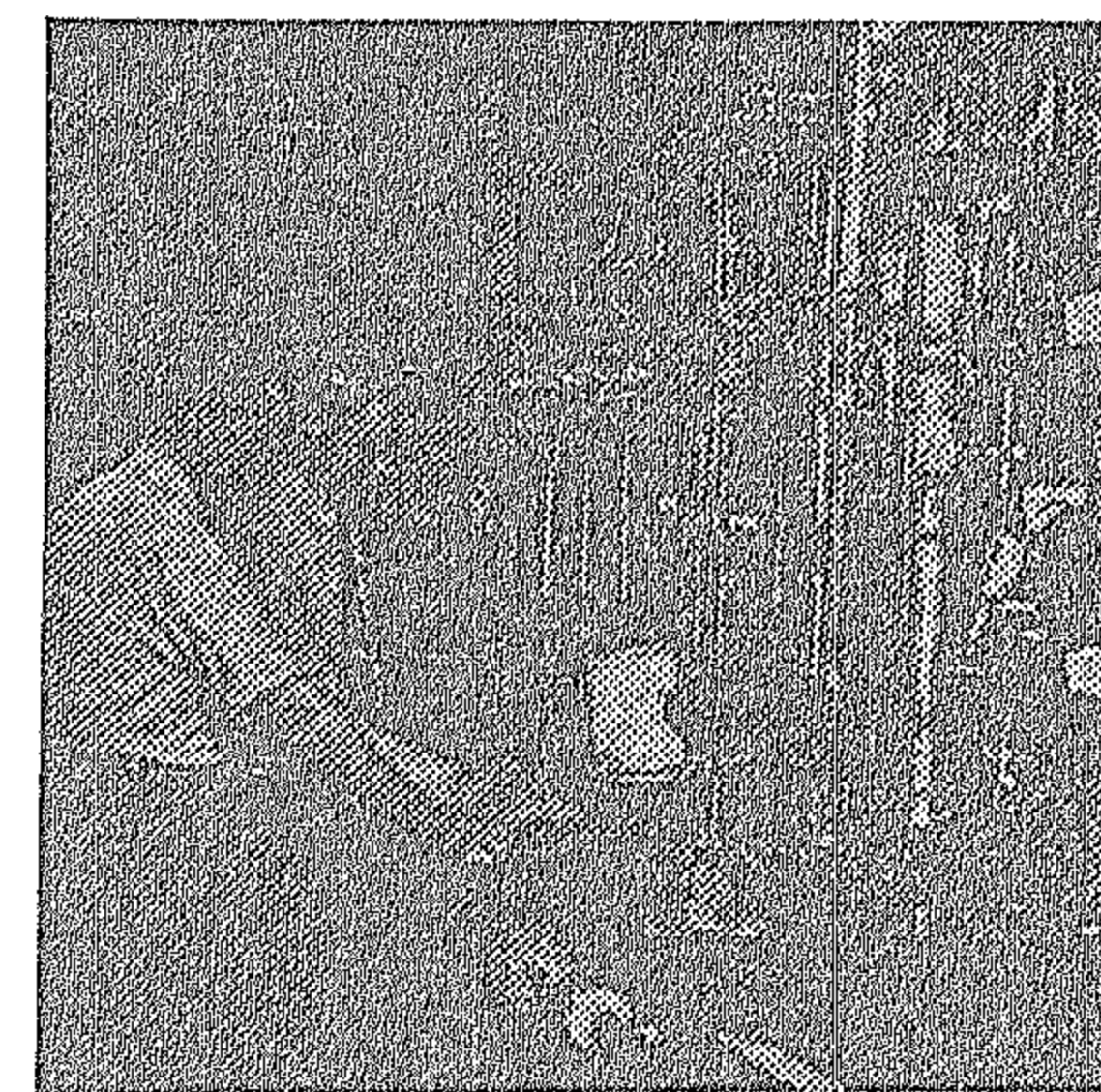
To the man on the street, carbon monoxide is just a poisonous gas that sometimes causes tragic deaths when it escapes from the exhaust of an automobile or from a poorly tended furnace.

Outside 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

You'd hardly associate carbon monoxide with anti-freeze. But at temperatures from 300 to 450°C. and under pressures of 1500 to 15,000 pounds per square inch, carbon monoxide and hydrogen unite to form methanol—a colorless liquid from which is made "Zerone" anti-rust anti-freeze for automobiles. From methanol and carbon monoxide as raw materials, ethylene glycol for "Zerex" anti-freeze is produced.

Plastics and Anti-Freeze

Methanol is used also to make a large number of compounds such as formaldehyde and methyl methacrylate. The former goes into urea- and phenol-formaldehyde plastics for light fixtures, radio cabinets, hardware, utensils, and electrical equipment. The latter is the basic material for "Lucite" acrylic resin with its many uses.



A. J. Hill, Jr., Ph.D. Org., Yale '44 and F. F. Holub, Ph.D. Org., Duke '49 carrying out an experiment on a new method for purifying carbon monoxide. The large furnace in this apparatus operates at 1200°C.

pressures. However, the possibilities have by no means been exhausted. Just recently, for example, chemists have been learning how to use carbon monoxide in "up-grading" certain petroleum hydrocarbons to give interesting alcohols. One of these, 3,5,5-trimethylhexanol, is prepared from diisobutylene by reaction with carbon monoxide and hydrogen.

College-trained men and women interested in working in this field at Du Pont may share in discoveries as outstanding as any yet achieved.

Because of the wide scope of Du Pont's activities, young graduates in many different fields have opportunities to select the careers that prove to suit them best as their abilities and interests develop.



BETTER THINGS FOR BETTER LIVING ... THROUGH CHEMISTRY

Entertaining, Informative—Listen to "Cavalcade of America" Tuesday Nights, NBC Coast to Coast



A. H. Emery, Jr., M.S. Ch.E., M.I.T. '49 and M. J. Roedel, Ph.D. Org., Michigan '40 inspecting a high-pressure batch reactor taken from the shaker tube assembly after a run to make 3,5,5-trimethylhexanol.

and high-pressure chemical techniques have been highly developed, carbon monoxide has become a key-stone of industrial synthesis.

Scientists have found that under the proper conditions of high pressure and temperature, carbon monoxide, in combination with other substances, can be converted to a variety of useful products. These or their derivatives range from an acid used in tanning hides to the sparkling plastics in milady's boudoir.



R. L. Stearns, B.S. Ch.E., Yale '49 and H. Peterson, B.S. Ch.E., Northeastern Univ. '42 checking a multi-stage carbon monoxide compressor used in semi-works operations.

Final Thesis Deadline: Jan. 13
Preliminary Deadline: Dec. 30

Call now and avoid rush!

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SPACE RESERVATION

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Research uncovers new cement material

By treating dirt like popcorn, ceramics experts at Armour Research Foundation hope to lower the cost of concrete construction while providing lighter, stronger, and better insulated buildings.

Thomas C. Miller, supervisor of masonry materials research at the Foundation, has been investigating clay and shale deposits, heating them until they expand and form materials suitable for mixing with cement. These components, which form 80 per cent or more of the volume of finished concrete, are called "light-weight aggregates."

"In concrete, the aggregate is just as important as the cement which is the binding material," Miller asserted. "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 members need not support so much weight. Lighter beams can mean less building cost.

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

And lastly, the aggregate is not expensive, being manufactured from naturally occurring clay and related materials located near the producing plants.

"Transportation costs tend to decentralize this industry," Miller claimed. He contended that much of the price of some aggregates such as pumice, vermiculite, or perlite, is represented by freight charges and that using materials close at hand could reduce construction costs.

Miller predicted that a plant set up in the Chicago area to manufac-

ture light-weight aggregate would have a ready market, since concrete construction in and near the city requires 500,000 yards of aggregate annually. Good aggregate at an attractive price should stimulate concrete construction, he said.

Miller has designed an efficient, proposed plant suitable for strategic locations. "The better aggregate the greater the percentage of it we can use in concrete," he pointed out. "This cuts the amount of more expensive cement required. Low-cost, concrete block homes, using light-weight aggregate, offer a wide potential market."

Radio club plans equipment contest

Neatness and practicality of construction are the keynotes of a contest that is being sponsored by Illinois Tech's Radio club. Equipment-building contest prizes will include test equipment, reference books and subscriptions to Radio and Television News. Open to members only, the three classes of entries being considered are the novices, the engineering and design class and the advanced class, open to licensed amateurs and advanced experimenters.

Dates of judging and names 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.

Football

(Continued from page 2)

just "offer to play" big universities. That takes heartaches, begging, years of effort, traditions and financial deals—let's forget about that kind of football at Tech for the present.

Scholastic loads on the players would have to be lightened to permit them to play, but not below the minimum agreed to in any conference or association of colleges we entered. Their minimum work loads are above half-time work load at Tech. Few players would want to make up credit hours in summer school unless repaid in money or free tuition.

With the time required going to and from school, time lost in injuries, time used up working part time through school and with 50 percent of the engineering student body getting "C" grades or lower, it is going to be hard to find students to participate in the sport.

Recapitulating with a view to costs, our team of 60 players minimum will need a half-million dollars to get it on the field, and more to keep it there. If the students and alumni of Illinois Tech think this kind of money can be secured and is considered a worthwhile expenditure for 60 players, I encourage them to go ahead and devise plans for having a football team. More astounding miracles than football at Illinois Tech have been performed.

John J. Schommer

RUN YOUR CANDIDATE!
Take an active interest in your class affairs by nominating your candidates for office. Petitions are available in the South Union.

'Topper' ghosts top SAM film after vacation

Adhering to its new policy of "four shows weekly," the SAM Film Program has announced films scheduled for the remainder of the semester. Free of admission charge, the two-hour program will now be seen on Wednesdays at 2 and 4 p.m. and Thursday evenings at 6 and 8. All showings are in 131MC.

"Topper Takes a Trip"—listed for January 4-5—stars Roland Young, Constance Bennett, and Billie Burke in Thorne Smith's farcical tale. "Delightful nonsense, using trick photography to mix the visible and invisible characters, this film is expertly played," reports Wally Conniff. Accompanying the feature will be "Lest We Forget," amusing vignette of the quaint old days, concerned with development of horseless carriages.

IN HUMAN BIOLOGY,
WE FREQUENTLY
RUN INTO CASES
OF EXTREMES



Pledging period completed, honoraries count initiates

With the completion of initiation ceremonies of Pi Delta Epsilon Wednesday, all the honoraries on IIT's campus ended their respective pledging activities for the semester.

It was found that approximately 7.5% of the student body was initiated into honorary societies this semester. The largest group of the 262 men initiated into the 14 active honoraries went to Tau Beta Pi, engineering honorary, which collected 76 men.

Instructors await date of ratings

Faculty ratings will be distributed after the Christmas vacation. The Interhonorary council will distribute the forms in the classes, and the completed report will be immediately turned over to the instructor.

The faculty council approved the project in November. According to Jim Mason, IHC Faculty Rating committee chairman, the faculty and Honorary council feels that the survey should be performed yearly, although no definite policy has yet been set.

After last year's survey, instructors were polled by the IHC for comments on the ratings. Of one-third of the faculty replying, almost all expressed approval. Several instructors said they had changed their teaching methods.

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

A breakdown of the number of undergraduate men received into the societies follows:

- Pi Tau Sigma—mechanical engineering honorary—36
- Eta Kappa Nu—electrical engineering honorary—31
- Phi Lambda Upsilon—chemistry and chemical engineering honorary—27
- Sigma Iota Epsilon—management honorary—17
- Pi Delta Epsilon—journalism honorary—15
- Phi Eta Sigma—freshman honorary—15
- Pi Nu Epsilon—music honorary—10
- Chi Epsilon—civil engineering honorary—9
- Rho Epsilon—radio engineering honorary—9
- Honor I—athletic honorary—8
- Tau Omega—aviation honorary—5
- Salamander—fire protection engineering honorary—1
- Sigma Pi Sigma—physics honorary—none

Some readers were in doubt as to who was responsible for the Honors assembly last week. We wish to emphasize that the Interhonorary council, of which Joseph J. Pope is president, was in charge. Dean of Liberal studies John D. Larkin was instrumental in obtaining the featured speaker, Dr. Ralph Bunche.

Techmen staging comeback soon

"They're leaving now, but they'll be back." Such was the confident prediction of a faculty observer as Techawks this week deserted IIT for the holidays.

All modes of transportation were pressed into use. One junior EE from Elgin, Nebraska, was heard explaining his plans: "I'm taking CTA downtown, a bus to the airport; then I'm skycoaching to Omaha, where I'll change to a train for Elgin, where I'll switch to Calvert."

Some students determinedly pledged attention to schoolbooks during the Yule freedom period. Among these were Technology News staff members, all reportedly 12 weeks behind in homework assignments. Trudging off with bulging briefcases, they unselfishly chorused:

'Merry Christmas'

The SILVER and GOLD

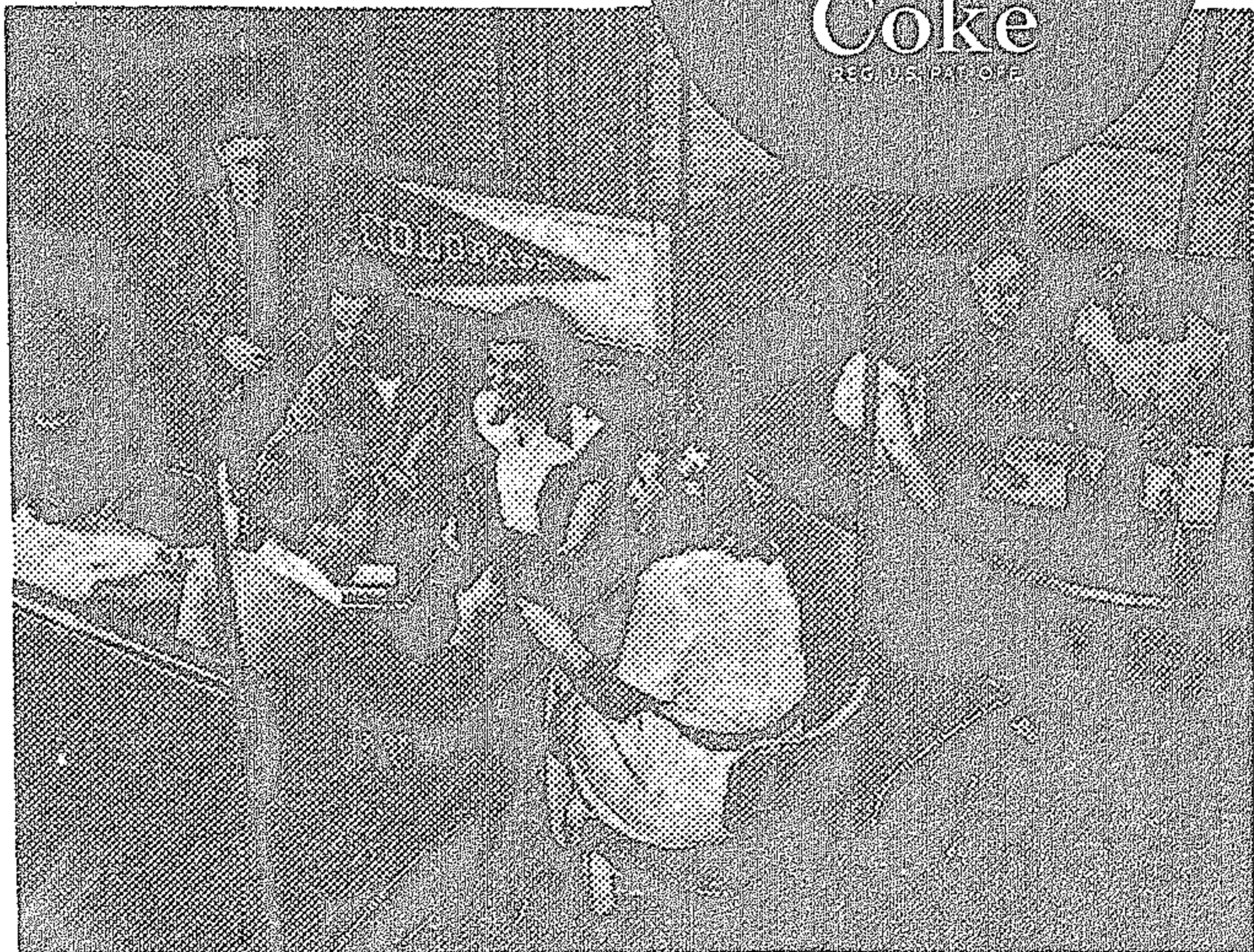
AN INDEPENDENT NEWSPAPER
Official Publication of the Associated Students of the University of Colorado
5th Street, Boulder, Colorado
Here We Go Again...
Editors, Business Managers
Selected For

Meeting the gang to discuss a quiz—a date with the campus queen—or just killing time between classes—Owen's Sandwich Shop at the University of Colorado in Boulder is one of the favorite places for a rendezvous. At the Owen's Sandwich Shop, as in college off-campus haunts everywhere, a frosty bottle of Coca-Cola is always on hand for the pause that refreshes—Coke belongs.

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"Coke"



Owen's Sandwich Shop, Boulder, Col.

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33rd and PRINCETON

Man of the week

Hobby fan Golick lauds marriage

By James Gewartowski

Somehow, Dick Golick looked a bit sad about something. "What's the matter?" I asked, "Flunk a quiz?" "No," he answered, "there's been a tragedy in the family." "You mean . . ."

"Yes," he replied, "one of my pet canaries has chirped its last chirp."

However, after due consideration of the matter, we decided that in the hobby of bird breeding, such occurrences are altogether likely. Dick recalled, in fact, that several of his canaries' eggs never even hatched.

Some would think bird breeding an incongruous hobby for an eighth term industrial engineering major, but it is only one of the many hobbies which has occupied Golick's spare time. He used to collect theater stubs from all parts of the world; now, he collects grade points to the tune of a lovely 2.36 average.

Noticing his 5 foot 5 inch, 165 pound frame, I remarked that eating looked like one of his hobbies. In reply, he conceded this pleasant weakness: "Some people like to go to a movie or the theater. My wife and I would rather go to a place noted for good food. We've been in most of the best eating places in the country." When asked in which place he had found the best food, he suggested the Kungsholm restaurant in Chicago.

Richard B. Golick had his primary and secondary education in Montreal, Canada. After being

graduated in 1939, he began work as a pattern maker's apprentice. With Canada's entrance into the war, he was transferred to a company which made shells. Here, he was to construct machines of wood which would fill shells with explosives; metal machines causing sparks which would ignite the explosives. Because of his valuable ideas, he was promoted to production methods man.



GOLICK man.

In December, 1942, he enlisted in the RCAF to serve as a radio mechanic.

Upon discharge, he was offered the Canadian government's version of the "G.I. Bill." Dick planned to take up electrical engineering, but when he heard that IE was being taught, he was, because of his previous experience, all for it. So January, 1946, found him at Illinois Tech.

Since then Dick has become a member of Tau Beta Pi, Sigma Iota Epsilon, Society for the Ad-

vancement of Management, Western Society of Engineers, American Society of Mechanical Engineers, Society of Automotive Engineers, and Illinois Tech Married Students club.

How can a person with so many activities still get a straight "A" in his seventh semester? Says Dick, "Well, I believe that such extra-curricular activities should be looked upon as recreation rather than as work."

When asked if having a wife was a handicap to his school work, he replied, "Just the opposite. I think every college student should be married. It gives him two extra hands and one extra head." Quite a few females might be inclined to agree with Dick's opinion.

Dick also believes that every engineer should have some management training, because most engineers eventually gravitate to executive positions of one type or another.

Golick's post-graduation destiny is as yet uncertain. Firmly sold on IE, he would like to do basic research work in industrial engineering. Whatever he does, engineering principles will be applied—of that you may be sure.

Personality, practical experience rate tops

By Hal Bergen

Seeking placement problems during the past several weeks, we recently found ourselves in the richly-paneled loop offices of a prominent national manufacturing organization. The company's name is unimportant for our purposes; knowledge of its placement policies is important.

Personality is the key word. In a large company, the engineer's theoretical and academic abilities are worthless unless he can effectively work with others. That means he must not only get along with his immediate colleagues but also the men in other departments.

For this company in particular, actual shopwork experience is considered invaluable. Experience in the practical end of a particular field provides the engineer with a valuable perspective. Here it is recommended that student engineers get summer jobs in labs and shops akin to their field.

Aside from the grade point average, extra-curricular activities indicate a degree of maturity and decision-making ability. Our informant quickly added that although professional activities broaden one's contacts they can be overdone, having the effect of narrowing individual perspectives.

Various types of tests are held to have some value, just as grade point averages are somewhat indicative of ability. Common standards of personal appearance are expected, as a matter of course. But these factors don't tell the whole story to the interviewer.

The valuable man is the man who

has gotten his feet wet in the field. The most valuable man is the one who gets along well with people.

Next issue: A Placement Team at Work.

MILLER SECRETARIAL SERVICE

Features for Students of Illinois Institute of Technology

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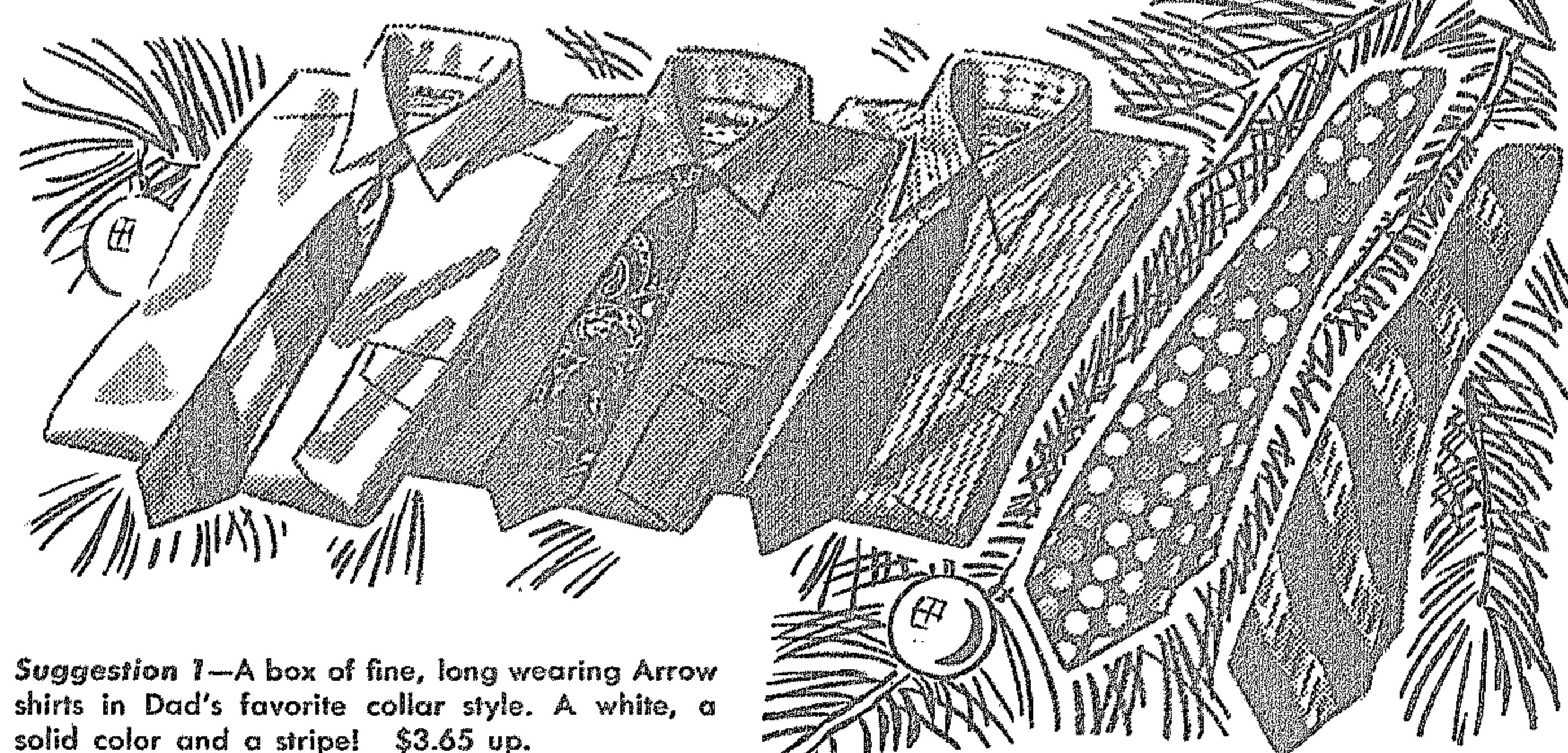
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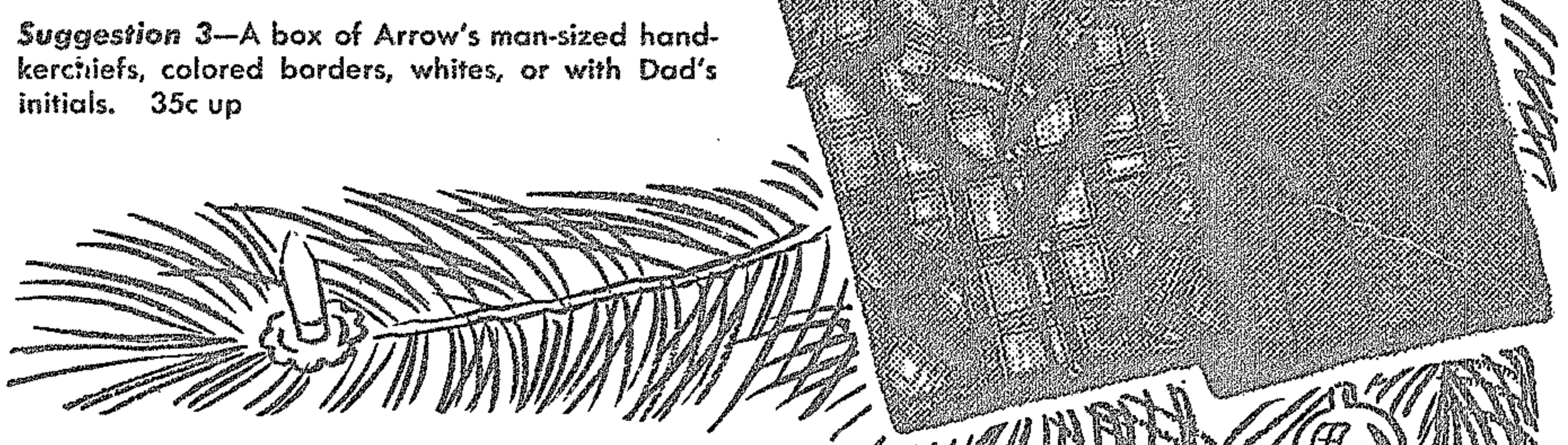
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Suggestion 2—Be choosy and pick out a few good looking Arrow ties—a rep stripe, a foulard, a polka dot, and a bold panel. \$1 - \$3.50.



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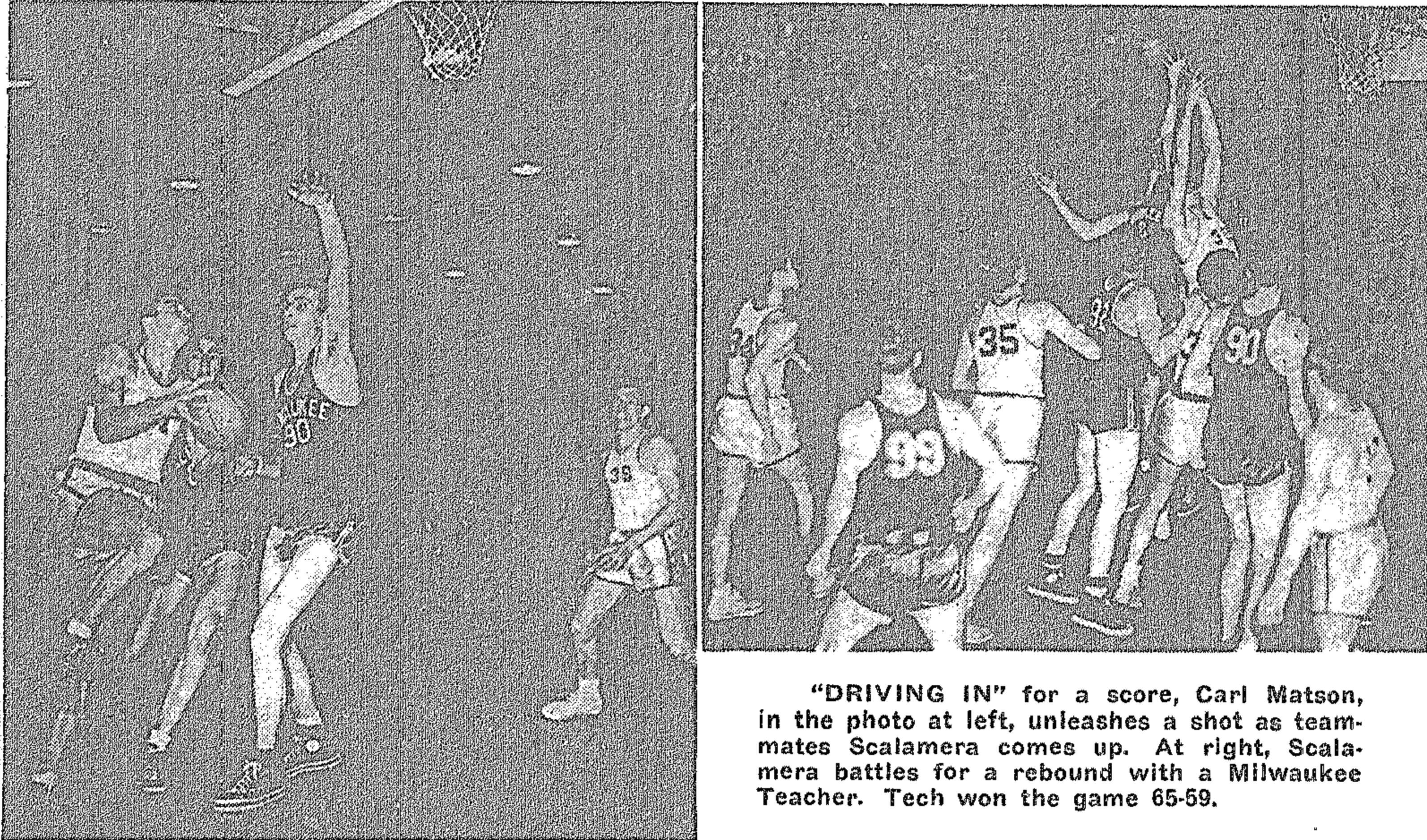
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FOR ARROW SHIRTS

Swimmers drown Bradley in opener

Tech Sports



"DRIVING IN" for a score, Carl Matson, in the photo at left, unleashes a shot as teammates Scalamera comes up. At right, Scalamera battles for a rebound with a Milwaukee Teacher. Tech won the game 65-59.

Cagers seek second victory over Lake Forest on Forester floor

By Marks Levy

Tomorrow night the cagers journey to Lake Forest to try for their second in a row over the Foresters. 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 cagers dropped their first game of the new season, losing to Chicago by a 60-45 score.

The varsity seemed to be completely played out both physically and mentally after the terrific battle with Milwaukee State Teachers last Thursday. The Milwaukee game was a real knocked-down, dragged-out affair with the score tied at halftime and at the regulation end. "Big George" Scalamera fought off the three Milwaukee men that towered over him to get his share of rebounds and lead Tech to the overtime win, collecting 8 buckets and 10 free throws.

George really showed his class against Milwaukee; when he can score 26 points against opposition like that he certainly ranks among the great players in Illinois Tech history.

Last Saturday was a different story. Although the plays were all set up and working in the first half, the ball just wouldn't go through the hoop. While all this was going on, the Maroons were scoring at a better than 60 per cent average; the shots they were making broke the Techawks' backs and Chicago pulled away to an 11 point lead to coast to their 60-45 win.

The Freshman team will play the preliminary game against the Lake Forest frosh squad at 6:30 p.m. This is the first contest of the season for the boys, and may show up some talent for future years.

For the first four games, George Scalamera has pumped in 85 points, and seems well on his way to shattering his total scoring record of 279 points for one season. If George can keep up his pace he will total well over 300 points for the 16 game campaign, a record that will probably stand for quite a while.

See BOX SCORES on page 7



IM SPORTS: Several questions have arisen of late as to eligibility, protests and postponements in the various IM leagues. . . . To clarify these questions here are the correct rules taken from the IM sports constitution and by-laws. . . . From Art. I, Section 1, on Eligibility: *Members of the varsity are not eligible for Intramural contests in their respective sports. Varsity letter winners who are members of IM teams, and no longer members of varsity teams, shall be eligible for IM-IF championship contests, but are not eligible for all-star game. Section 2: Additions to rosters may be made, but must be entered with the IM director 24 hours before the scheduled game. Section 3: To participate in a championship game of any sport, a player must have appeared in the lineup of at least two games. Forfeits may be counted in the above. Section 4: A player with professional experience may not compete in the sport of his skill. Section 5: A player having entered one contest with a particular team may not transfer to another team without approval of the Intersports council. Section 7: Any team using an ineligible man will forfeit all contests involved and the man will be barred from competition for 90 days.*

Protests are covered in Article II, as follows: *Section 1: All protests must be registered with the IM director within one hour 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 in his absence to the contest official. Section 3: Decisions rendered on protests are absolutely final.*

Postponements are covered in Article III: *Section 1: Postponements can be granted only by the IM director. Requests for postponements must be made a reasonable amount of time ahead of the contest time. Reasons for the postponement must be justifiable.*

In all cases of dispute, the Intramural director and the Intersports Council shall have the final word on rules interpretation and shall make the final decision. . . . All contests are covered by regular intercollegiate rules, except as provided in the rulings of the Intramural department. . . .

VARSAITY BASKETBALL: Brrrrrr . . . ! The Maroon fieldhouse was mighty cold last Saturday eve . . . at least as far as the shooting of the Scarlet and Gray were concerned . . . we couldn't beg, borrow, or steal, a hoop in that one . . . while we were shivering the Chi boys were wearing out their nets at a terrific clip. . . . We should rack them up, but good, when they come here. . . !

Well balanced attack takes meet; face Loyola tonight

By Ted Spath

A greatly improved Loyola swimming squad will play host to the Illinois Tech mermen tonight at 8 o'clock when the two teams meet at Loyola University. The Ramblers' squad, "loaded" with new talent this year, will be out to avenge last year's defeat at the hands of the Tech men, 52 to 23.

The Tech seals will be trying for their second win in as many starts when they meet Loyola. Saturday the mermen ran over Bradley University by the score of 44 to 31. This score was almost identical to the result of last year's defeat by Bradley.

Although plagued by illnesses, the Scarlet and Gray outdid themselves by taking six out of nine first places in the Bradley meet. Ted Eriksen and Ron Watson, although ill, consented to swim at the last minute and they were responsible in part for Tech's spectacular victory. Together they cinched the swimming meet when they swam a close race to finish 1-2 in the 440 yd. freestyle. Eriksen further advanced the Tech cause by taking second in the 220 yd. freestyle event.

Close finishes were the order of the day in the Bradley meet. One such finale took place when Bob Campbell swam to a tie for first place in the 150 yd. backstroke. Bob had been trailing throughout the race when, with a burst of speed, he managed to overtake the Bradley backstroke ace just as the race ended.

John Mitchell surprised even his teammates by coming from behind in the 60 yd. freestyle to take a first place with the near record time of 32.4 seconds. The iron men of the Tech breaststroke department, Len Carlman and Jerry Zichterman, completely outclassed their opponents by taking first and second places, respectively.

Other first places garnered by Tech were by Ray Klitzke in the fancy diving event and by the combination of Campbell, Zichterman and Ted Amberg in the 300 yard medley relay.

Results:

300 yd. Medley Relay
(1) IIT (Campbell, Zichterman, Amberg), (2) Bradley.

220 yd. Freestyle
(1) Drake (B), (2) Eriksen (IIT), (3) Spath (IIT).

60 yd. Freestyle
(1) Mitchell (IIT), (2) and (3) (tie) Brown (IIT), and Skoog (B).

Fancy Diving
(1) Klitzke (IIT), (2) Spring (B), (3) Brown (IIT).

100 yd. Freestyle
(1) Drake (B), (2) Skoog (B), (3) Amberg (IIT).

150 yd. Backstroke
(1) and (2) (tie) Campbell (IIT) and Westfall (B), (3) Valovic (IIT).

Tech wrestlers face Macomb

Last Saturday night, Bradley University's wrestling team defeated the Illinois Tech mat men in a closely contested match, 17-11, held at Bradley.

Al Siede, James Lingeman, and Leonard Barry all made it two in a row by taking their matches at Bradley after winning the previous week in the practice meet with Navy Pier. Captain Dean Levi lost a heartbreaker at Bradley after winning his first match at Navy Pier.

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

200 yd. Breaststroke
(1) Campbell (IIT), (2) Zichterman (IIT), (3) Tessitore (B).
440 yd. Freestyle
(1) Eriksen (IIT), (2) Watson (IIT), (3) Nelson (B).
400 yd. Relay (4 man)
(1) (B)
Gire
Skoog
Hannigan
Drake
(2) (IIT)
Nelson
Frank
Schmucker
Barlam

Fraternity Row

By Sid Doppelt

The powerful Theta Xi cagers made it two straight Tuesday night as they rolled over previously unbeaten Triangle fraternity by the score of 58-36. The score at the half was a comparatively even 28-21, but the overall strength of the defending champs and their "two platoon" system was far too much for Triangle. While only playing part of the game, "big" Bob Grines managed to hook from every angle as he walked off with the scoring honors, totaling 16 points. Jack Kuzia and Charley Gentzel "helped" Bob with 12 and 11 tallies respectively. It certainly looks like Theta Xi has what it takes again this year.

Sigma Alpha Mu's stock took a tumble as the team crumbled before a great second half rally staged by Phi Kappa Sigma. Trailing at the half by 10 points, the victors poured in the baskets in the second stanza to pull out with a 37-32 success. It was Roy Veitch and Bill Mattern providing most of the fireworks for the Phi Kaps but the whole squad deserves a lot of credit for the great comeback.

Darkhorse Delta Tau Delta opened their season last week with a 57-42 victory over Alpha Epsilon Pi. The Deltas showed plenty of stuff in the game and with a better defensive polish, they are certain to become quite a threat. Greg Opelka led the team in scoring with 14 tallies while Marty Hoeft was the spark plug on the floor with some great team play.

We would like to send our special orchids to the members of the varsity for their great job in refereeing the games so far. With the many close games their skill at calling the fouls has kept everybody pretty well satisfied and has avoided the hard feelings which are always present when a poor or biased decision is made.

Eight Honor I men initiated

The formal initiation of the present Honor I pledge class was held at Phil Schmidt's last Wednesday night.

Following speeches by the initiates pertaining to their merits as athletes, the eight members-to-be were formally initiated into the honorary athletic fraternity.

Men initiated were Lou Costalis, Al Ashurst, Milt Cox, Bill Baumgartner, Dave DeLazzaro, Jim Bobzin, Bob Zeitlin, and Ed Burke.

Tech Prep Tournament opens December 26

Parker, Austin, CVS menace Commandos

Austin, Parker, Vocational, Calumet and Von Steuben seem to be the chief threats to the Marshall Commandos dominance of the Illinois Tech Tournament. Austin's senior quintet has squelched five strong opponents along the exhibition trail. Led by the clutch shooting of guard Floyd Youngberg, the Tigers this week topped Farragut to remain undefeated.

Parker (the team that stopped the Marshall junior win streak at 98 back in '44) will try to throw up a road block to stop the Commandos. The south section Colonels also have put five opponents to the sword; numbering clubs from the Catholic, Public and Private school leagues among their victims.

Vocational's city champion junior team will join hands with their big brothers to try and even the score against the Commandos (last week the senior Cavaliers succumbed to Marshall 56-39).

Calumet, winner in four of five contests and semi-finalist last year, girds for south section competition (who's in the south section?) where the Indians are defending champs. ("Hot" teams in the south section are Vocational, Parker, South Shore, Hyde Park, etc., see!)

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

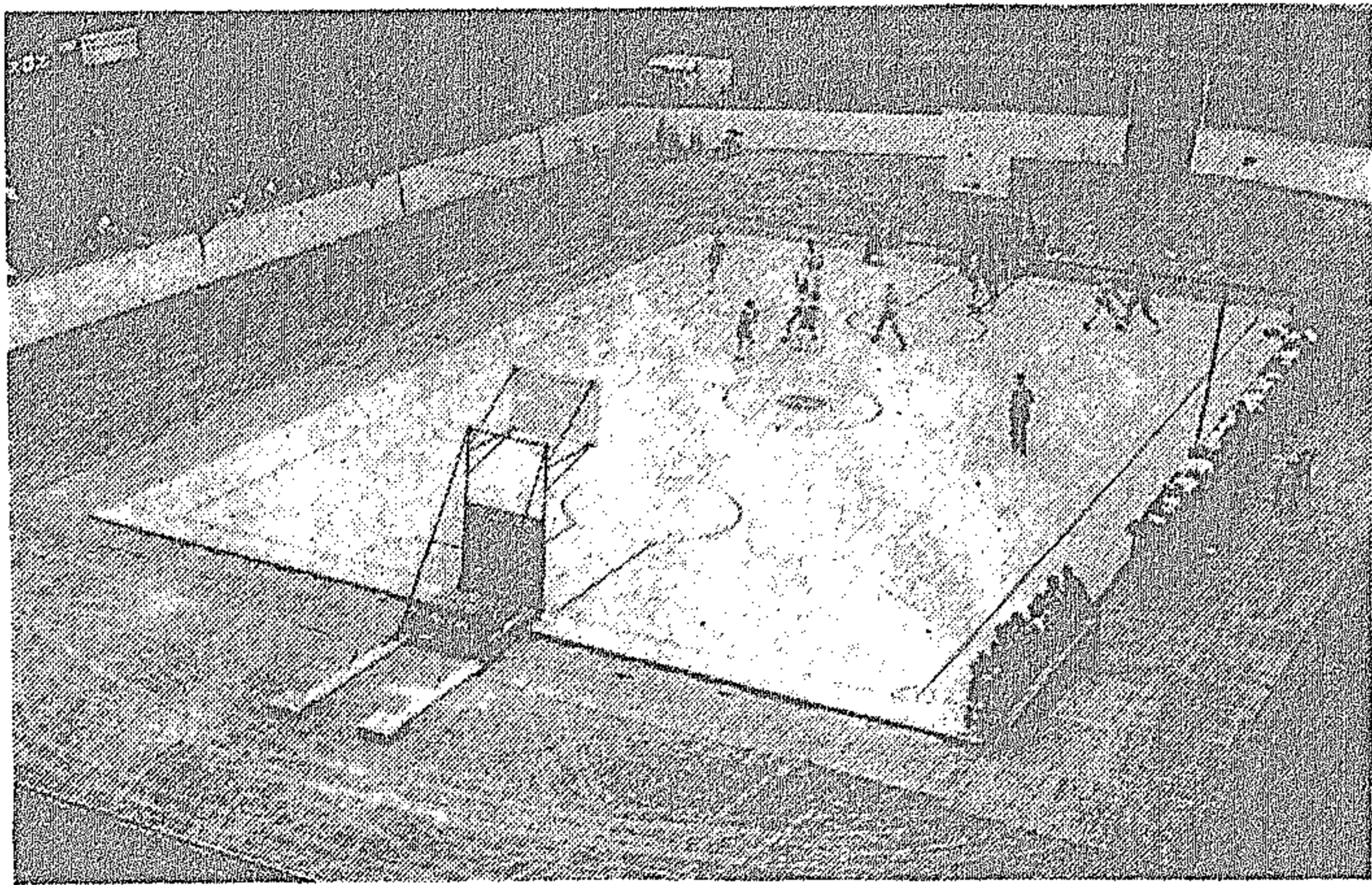
Tech entry, Wells. The 59-56 loss last week snapped Steuben's string at four straight and left the northerners hungry for a taste of revenge in next week's big battle.

To offset these major threats to their "life and limb" the Commandos offer a squad that has cruised to five consecutive triumphs.

The west section champions have pounded Holy Trinity 63-29, Lane 64-24, Roosevelt 60-37, Vocational 56-39, and Schurz 53-35 to average 60 points a game.

Captain Al Sherman, 6 ft. 1 in. forward, Earl Neuman, 6 ft. 2 in. center, Noah Marmel, 6 ft. 3 in. forward, Howie Abraham, 6 ft. 3 in. guard and Edwin Goldman, 5 ft. 8 in. guard give the Maroon and Gold a lineup averaging 6 ft. 1 in., loaded with speed and scoring punch.

"To the swift go the spoils" and the trophies, and the medals and the glory. The best in Chicago prep basketball will be on display at the Amphitheatre December 26 for all to see.



PREP TOURNAMENT SCENE—the International Amphitheatre basketball floor.

Archs' upset features week's IM bucket play

By Bill Feliss

The Podunk A. C. emerged from last week's Intramural competition with a very surprising victory over the highly rated Archs quintet. Podunk got off to a good start and by the end of the first half was ahead by a 15-6 score. The Archs came roaring back in the second half and unleashed a scoring drive which tied the score at 24-24, forcing the game into overtime.

The Podunks, however, were not to be denied. Norm Katz's basket with just a few seconds of the overtime remaining gave the Podunks their 29-27 win. Hank Lokay scored 11 points for the losers while Joe Duffy of the Podunks was good for 10 points.

Another close game of the week saw the Rasslers drop a 26-25 loss to the F.P.E.'s.

Sherman Roberts personally accounted for 15 points as the I.F.'s blasted the Ergs 51-17.

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

Other scores of the past week were:

Shrimps 29, Ergs 19.

Accidents 26, Fowler Hall 19.

BOX SCORES

IIT-45		CHICAGO-60	
B	FT F	B	FT F
Matson	0 0 2	Gray	3 1 2
Leiser	3 3 3	Karush	7 3 3
Scalamera	5 8 3	Podulka	0 1 1
Gardner	0 0 2	V'der Weyden	2 2 4
McCue	1 2 1	Hansen	3 1 5
Maatman	3 2 1	Boise	4 2 4
Goralka	3 0 5	Geocarls	4 2 5
		Dickman	1 0 1

Halftime score: Chicago 33, IIT 26

IIT-65		MILWAUKEE-59	
B	FT F	B	FT F
Matson	1 0 3	Ryerson	4 3 5
Gardner	0 0 5	Gunderson	5 7 4
Goralka	0 2 0	Bolz	2 1 3
Leiser	6 4 1	Lemmer	7 4 2
Scalamera	8 10 5	Morris	3 0 5
Urasky	0 2 1	Smith	0 0 3
McCue	1 5 1	Pautsch	0 0 5
Maatman	5 0 1	Schulze	1 0 1
Peterson, R.	0 0 3		
Peterson, P.	0 0 2		

Halftime Score: IIT, 29; Milwaukee, 29.

Score at end of regulation time: IIT, 55; Milwaukee, 55.

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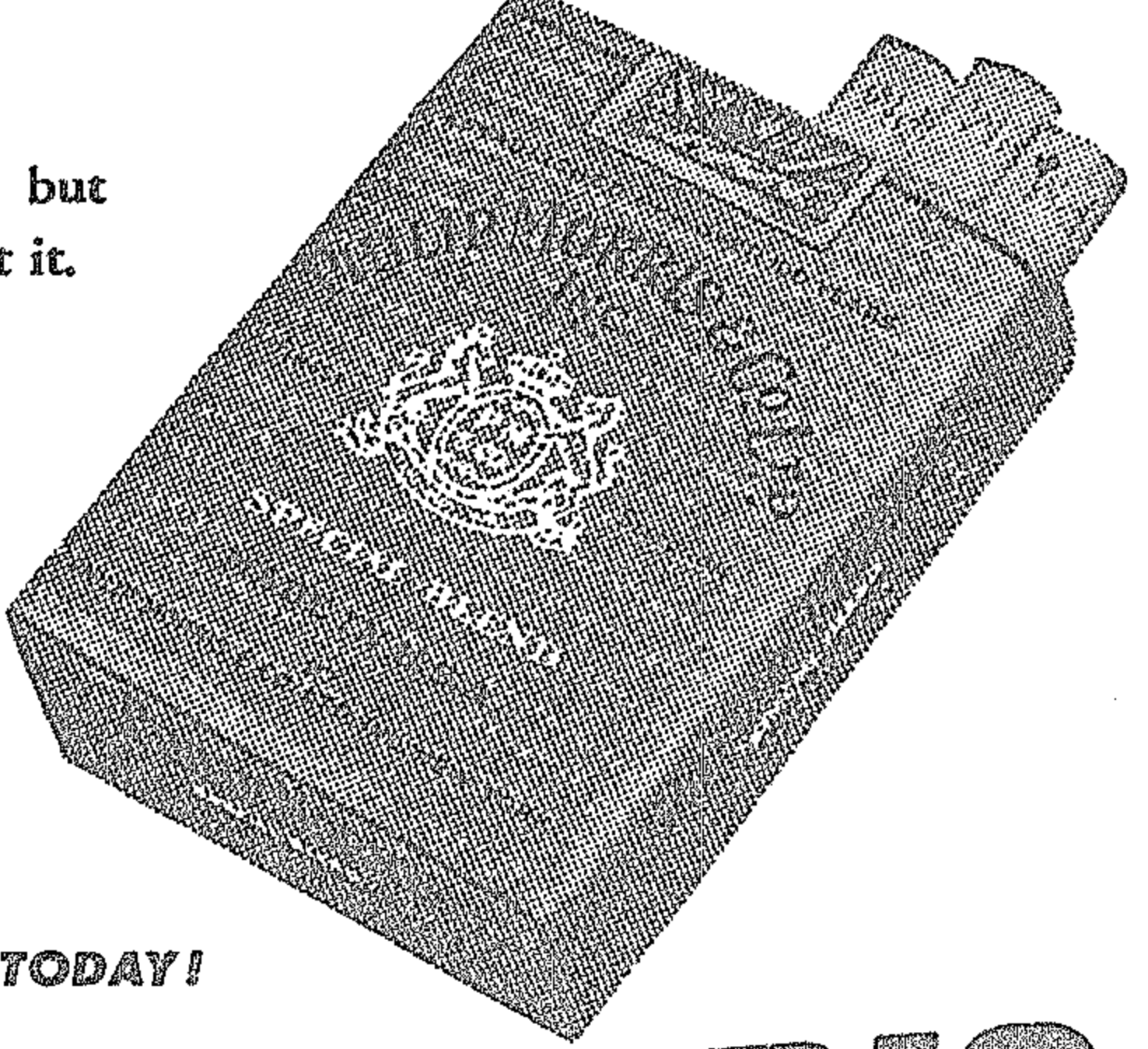


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CALL FOR PHILIP MORRIS

Heald to address graduating class at Alumni meet

Henry T. Heald, president of Illinois Institute of Technology, will address the mid-year graduating class at the Alumni luncheon January 6 at 84 E. Randolph St.

President Heald will speak on "The Responsibilities of Your Career." Harold W. Munday, CE '23 and president of the Alumni association, will extend his greetings.

Reservation cards costing \$1.35 per person can be obtained from class representatives and at the New Year's party booth in the NU lobby today and tomorrow. These cards must be returned by January 4.

News in Brief

Two new Marine Corps Reserve units, the 1st Heavy Anti-aircraft Artillery group and the 13th Signal company, have been activated. Accepting veterans and non-veterans, the units offer hourly pay of \$1.25 up, plus free uniforms, technical training, college correspondence courses, and retirement benefits. Tuesday and Wednesday evening sessions are held between 8 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 two-and-a-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 Krause, chairman, Pat Downing and Dolores Dain.

All residents of Farr and Fowler 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 Bursar'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.

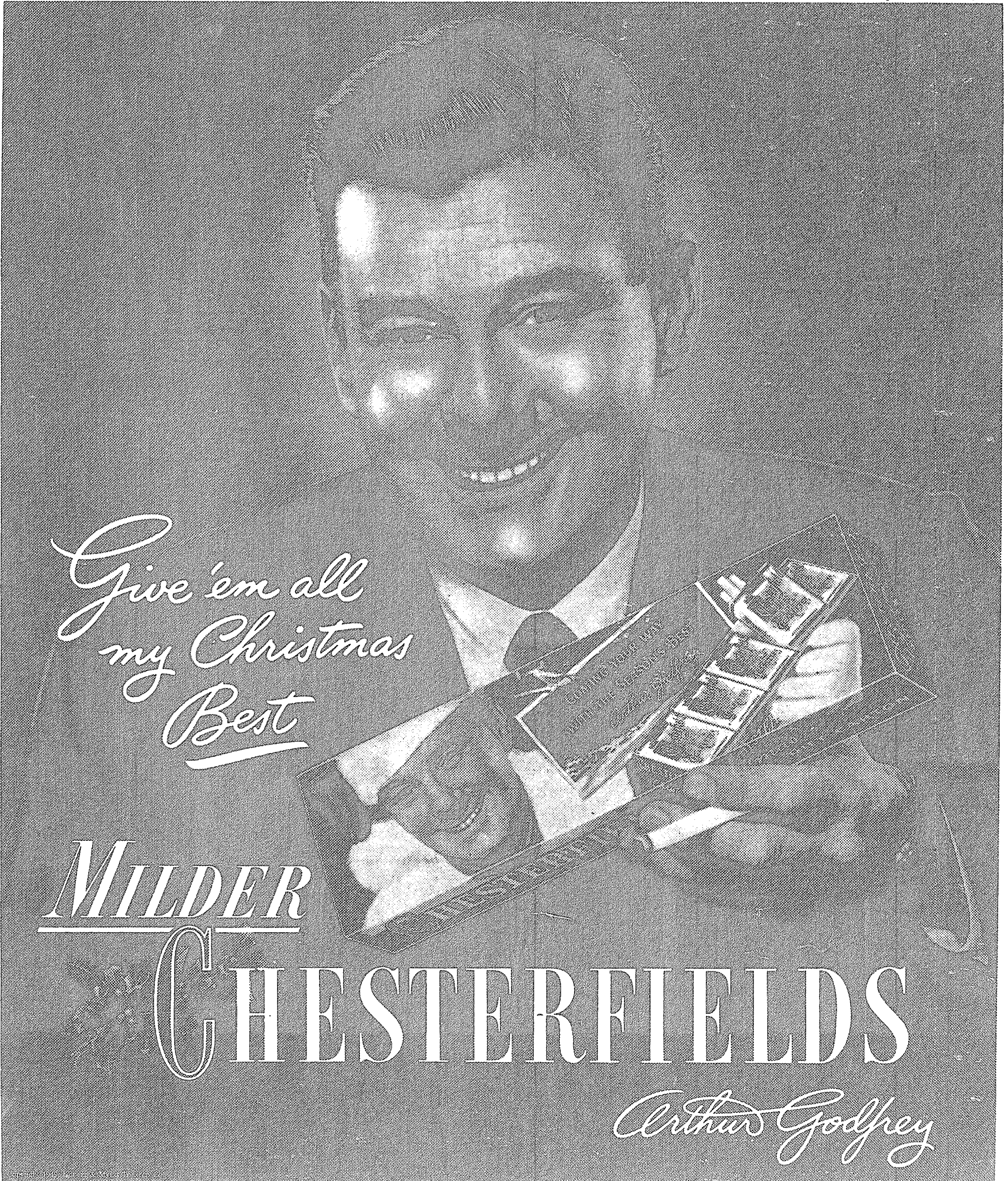
Those interested should fill out the blanks provided at the Integral office door in the South Union.

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