

TECHNOLOGY NEWS

Vol. 52, No. 1

Illinois Institute of Technology

February 16, 1951

February 26-March 3 set for Brotherhood week

The Religious Council of IIT is sponsoring a full week's program for Brotherhood Week February 26 and March 3. The week will include movies, a panel discussion, guest speaker, and music from foreign countries.

Movies on February 26 will open the week-long program and will be shown in 115CB from

Fairchild of BE dept. appointed registrar

James W. Fairchild, lecturer in the department of business and economics at Illinois Tech, has been appointed registrar, it was announced by Clarence E. Deakins, dean of students.

He is replacing John P. Makielski, who has been named assistant to the administrative engineer at Bendix Aircraft corpo-



FAIRCHILD

ration in South Bend, Indiana.

A graduate of Shorewood high school, Milwaukee, Fairchild received a bachelor's degree in in-

Armour Eye to see speed flash gear

The newest speed light flash equipment will be demonstrated at Armour Eye's studio night, February 23, 6:30 p.m. in the executive conference room, SU. J. P. Kennedy of the Triumph Manufacturing company will demonstrate and lecture on speed flash equipment. Camera fans who are interested in Armour Eye are invited as well as old members.

Shutter bugs can bring their cameras and shoot to their hearts content, for lighting equipment and a model will be available. The equipment will be adequate for either black and white or indoor color film.

dustrial psychology at Northwestern university in June of 1941. He is now completing work for a master's degree in sociology and business administration.

Before joining the Illinois Tech staff in September of 1948, he taught in the evening divisions of the University of Chicago and LaSalle Extension university, Chicago.

From 1941 until 1946, he was employed in the personnel department of Western Electric company, Chicago. From 1946 until 1948, he served as partner in the firm of Harrison and Fairchild associates, personnel consultants.

1 to 5. The movies will depict life in the various foreign countries of the world.

A panel discussion will be presented on Tuesday, February 27, in the SU auditorium from individuals whose topic will be "Brotherhood is a Twenty-Four Hour Job." The panel is composed of Miss Minnie Galatzer, director of the Actors Company Creative Theater Inc., Mr. Loren Hutchinson, director of personnel and labor relations section of the Illinois State Chamber of Commerce; and Mr. Irv Kupcinet, columnist for the Sun-Times.

Mr. Russell Babcock, executive director of the Illinois Interracial commission, will highlight the week's program with the main address on Thursday, March 1, in 131MC at 1 p.m. The subject of Mr. Babcock's address is "Are We Two Faces?" Displays from foreign countries will be shown in the Metallurgical Chemistry and Chemistry buildings.

Folk songs and music from various foreign countries will be played continuously over the P.A. system during the lunch hour.

Need for engineers told at assembly

The first of a series of placement assemblies was held Tuesday in 115CB. Over 250 seniors and graduate students heard R. G. Owens, assistant dean of engineering, and R. D. Meade, director of placement, speak on the current shortage of engineers and the mechanics of placement.

Dr. Owens estimated that colleges would produce 30,000 engineers this year. These graduates could be employed in industry, but considering the current military needs, industry will not get all these men. In the past two years, colleges have supplied 100,000 engineers to industry, but with a rise in war production, the shortage of engineers and scientists is again appearing.

Mr. Meade, whose department has placed more than 4,000

graduates in the past four years, gave information on the success of the January graduate placement program. All these graduates have been placed at an average monthly salary of \$290.00 to \$310.00.

Relating to the students the importance of following the correct placement procedure, Meade estimated that more than 140 companies would interview students for jobs this spring. Interviews will begin Monday, and seniors may take any number of interviews they desire.

Wesley Ooms, chairman of the placement committee, presided over the meeting. This committee is planning three more meetings, the next one being in approximately three weeks.



DEAN CHESTER ARENTS, right, outlines administration of probation policy to Dr. Ralph G. Owens, newly appointed assistant dean of engineering.

Arents appointed to head new post

Owens steps in as assistant dean

Office supervises campus research

Dr. Ralph G. Owens has been named assistant dean of engineering at Illinois Tech, it was announced by Dr. John T. Rettaliata, vice president.

Dr. Owens, who has served as professor of mechanical engineering at Illinois Tech since 1946, replaces Chester A. Arents who was recently named coordinator of research.

A native of Eaton, Ohio, Owens received his bachelor's degree in electrical engineering in 1927, and his master's degree in 1928, both at Ohio State university. He received his doctorate in 1939 at the University of Michigan. Owens was an instructor at West Virginia university from 1928 to 1930, at Western Reserve university from 1930 to 1937, and at Wayne university from 1938 to 1941. From 1941 to 1943 he was assistant professor at Colorado School of Mines, and in February, 1943 was appointed associate professor and department head there. In June of 1943 he joined the Armour Research Foundation of Illinois Institute of Technology as supervisor of thermodynamics and remained there until 1946.

Owens is a member of the American Association for Advancement of Science, American Society of Mechanical Engineers, American Society of Refrigeration Engineers, American Society for Engineering Education, Sigma Xi, and American Physical Society.

Greeks elect new officers for semester

Illinois Tech's social fraternities have elected their new officers for the coming semester. Alpha Epsilon Pi elected Herman Levin, master and Bert Cohn as lt. master; Alpha Sigma Phi selected Dave Buchner, president and Don Carlson, vice president; Daedalians put Al Plys in as regent and Pete Schutz, vice regent.

Delta Lambda Xi made Bill Powell, grand master and James Gewartowski, grand procurator; Delta Tau Delta voted Gregory Opeka, president; James Ridgley, vice president; Phi Kappa Sigma now has Jim Murray as president and Bill Roberts as vice president; Pi Kappa Phi's new Archon is Ray Hettick with Frank Unmack as treasurer; Sigma Alpha Mu elected Sherman Roberts, Phior, and Robert Miller, treasurer.

Sigma Phi Epsilon voted Bert Neighbour, president and Wayne Wiechmann, vice president; Tau Epsilon Phi retained Morris Franks, Chancellor and Jordan Cole, Vice Chancellor; Theta Xi elected Jack Kuzia, president and Ed Mochel, vice president; and Triangle selected Don Cumming, president and Len Deibel, vice president.

Chester A. Arents has been named coordinator of research at Illinois Institute of Technology, it was announced by Dr. John T. Rettaliata, vice president and dean of engineering.

Arents has been assistant dean of engineering. He joined the Illinois Tech staff in 1947 as associate professor of mechanical engineering, and was named assistant dean in September, 1949.

In his new capacity, Arents will handle all matters relating to sponsored research within the Institute, including proposals, contracts, staff, reports, and administration.

He attended Jefferson high school, Portland, Oregon, and received his bachelor's degree in mechanical engineering at Oregon State in 1932. For a number of years he was a practicing engineer in Portland. He returned to Oregon State to take his master's degree in 1946.

He is a member of the American Society for Engineering Education, the American Association of University Professors, the American Institute of Electrical Engineers, and the American Society of Mechanical Engineers.



LACOUR-GAYET

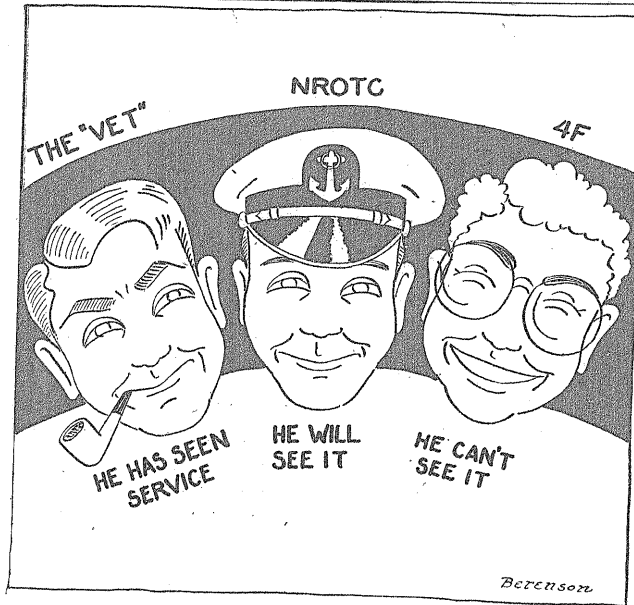
Lecturer from France here Tuesday

Dr. Robert Lacour-Gayet, official lecturer for the Federation De L'Alliance Francaise, will present a lecture Tuesday in 131 MC at 1 p.m. The subject will be "France and Germany: Foes Yesterday, Partners Tomorrow."

Dr. Lacour-Gayet is French inspector general of finances and a professor at St. John's university, Brooklyn, N. Y. He is also on the staff of New York university as a lecturer on the history of French civilization. He has carried out many economic and monetary missions to the United States, Great Britain, Germany, Italy, Poland and many others.



SENIORS SIT ENTHRALLED as Dr. Ralph G. Owens paints rosy pictures of unprecedented demand for engineering graduates. Nearly half of the eighth termers attended the first placement meeting.



Illinois Tech, Sept. '51

Collegiate World

Experiment proves
profs don't read

According to the Hastings Collegian, a student at that college decided to see if professors actually read all the term papers required in a course. He inserted a paragraph in his term paper stating he didn't believe teachers read what pupils write, and asking the professor to underline that paragraph if he read it. The paper was returned ... unmarked. * * *

The Northeastern News, at Northeastern university, Boston, recently offered a few tips to students who want to be a success at college. Tips included:

Look alert, take notes. If you look at your watch, don't stare at it unbelievably and shake it.

Bring the professor newspaper clippings. Demonstrate daily interest and give him timely items to mention in class; bring in any clippings at random.

Laugh at his jokes. You can tell he has made a funny if he looks up from his notes and smiles expectantly.

Ask for outside reading. You don't have to read it. Just ask for it. * * *

Ian Campbell, a senior at Northwestern, says he received a letter asking him to join the WACS. It was addressed to Miss Campbell and offered him a pleasant stay in the army. Campbell had no comment. * * *

The boys at Florida State have formed an entirely different type of club. It's called the WRTPBSUTRP, which stands for: We Refuse to Patronize Tallahassee Barber Shops Until They Reduce Prices. When it has enough money in its treasury, the club intends to hire a fulltime barber, who

will set up shop in the office of the student government. The club's insignia? A pair of sissors on a background of peppermint sticks. * * *

The girls in a gym class at Phillips university, Enid, Oklahoma, found themselves in hot water a while back. Eager to try out the swimming pool after the installation of a new boiler, the girls dived in and came up screaming. It seems the temperature of the water had been set at 110 degrees by mistake. * * *

Editors of the Collegian created a furor by carrying a banner story headlined, "Ellen and Helen are Firm Anti-Falsie Candidates." The girls were candidates in a queen contest. School authorities were particularly unhappy over the story's subhead, which said, "Experts see win by bust." * * *

One hour
only, boys

Announcement of four free periods a week for this and succeeding semesters brought a combined sigh of relief and yelp of joy from organizational leaders who in the past had found it difficult to schedule their meetings at other than a midnight hour.

Some of the boys were immediately struck with grandiose schemes of meeting to end all meetings—"we'll get them together for one two-hour meeting, get all the dirty work out of the way, and then be able to enjoy the rest of the meetings of the term."

It's too bad, but those rosy visions will turn a dull grey when an attempt is made to schedule the meeting with dean of students, Eileen (the dean's secretary) will look at you sweetly and say, "One hour only."

And no one is being the least bit harsh or arbitrary. The proposal of four free periods a week was accepted by the Faculty council because it seemed a logical way to enable more organizations to have more meetings—not longer ones. Were two-hour meetings permitted, this avowed purpose would be defeated.

as I see IT

By JOHN SCANNELL

DID YOU READ the fine print in the first few pages of the Registration Schedule—the booklet listing all the classes and pertinent registration information? It contained quite a bit of information, and if you read it no more thoroughly than most of us, you missed a couple of interesting items.

First, and of interest to each and every one of us, there was a notice announcing a day of grace before final exams—a day to catch up on the semester's work before finals begin. If you don't think this is a good deal, it's 'cause you've never had three or four tests the first day with no chance to review.

Like everything, the day of grace will be received with varying reactions. For those who like to study, it's great—for those who don't, it means an extra day of forced study to try to keep up with those who do.

The second item, the notice of the senior placement meeting, was of interest to graduating seniors only, but was of much greater immediate importance. Considering the interest in placement service among the eighth termers, it's too bad some more effective means of announcing the meeting was not employed.

About half the prospective June and August graduates did attend, but I'll bet most of them didn't know there was to be a meeting until someone else mentioned it.

A RECENT VITAL student election on the adoption of a revamped constitution at the University of Oklahoma brought out exactly 63 votes. Student enrollment is 8,500.

Following the election, a student declared in a letter to the *Oklahoma Daily*, that, "From here on out there isn't a student here on this campus who has any gripe when it comes to the question of representation and politics within their chosen governing body."

"It is an outright insult to the spirit and intelligence of this supposedly class 'A' university when a meager 63 kids . . . turn out to vote on an issue that not only affects the majority of students on campus, but also for a measure that was fought over for many months by these same intellectuals."

The angry student appealed to the Oklahoma student body to, "Sacrifice your comic books, saddle shoes and high school childishness, which have no place in a university of this stature."

And we thought we were apathetic here at Tech!

The last time we voted on changes in the constitution 830 students expressed their opinions, and our enrollment

Two men were arguing over the subject of whose girl friend had the more expensive fur coat.

"I'm sure mine has," said one, "and, believe me, I should know. I paid for it myself to the tune of six thousand bucks."

"That's nothing," drawled the other, "I'm sure the one my girl keeps hanging in her closet is worth much more."

"How do you figure that?"

"Simple, every time I call on her unexpectedly I notice when I go to the closet to hang up my coat, she has a man in there standing guard."

College: A fountain of knowledge where students gather to drink.

Timberjack: "You should have seen this babe. Limbs as smooth and straight . . ."

Timberjerk: "What I'm interested in is the trunk. Did it have any knots?"

Letters to the Editor

Bookstore
lambasted

To the Editor:

For many semesters most students have heard, if not themselves voiced, complaints against this school's BOOKSTORE. What must be done to cause the management to heed these statements? Where is a sign that an attempt is made to run an efficiently operated store that is also of service to our school needs?

Graph paper was not available towards the end of the last semester when many students needed it in order to complete those late lab reports. During registration no Engineering Laboratory folders were in stock. I have heard of scarcities in other stock items, but have not attempted to authenticate these claims.

If there is a satisfactory explanation of why ample supplies of all student necessities are not in the Bookstore, let us hear it. But, if none can be given, has the Institute ever thought of hiring a new bookstore manager?

John M. Backer

Ada S. thanks you

To the Editor:

The Ada S. McKinley Community House would like to take this means of expressing appreciation to all of the groups on IIT's campus for the splendid contributions which were received during the Christmas Holidays. The fraternities, sororities and other groups sponsored Christmas parties for the children, gave toys and refreshments, and provided many other things which helped to make many children in this community happy during the Christmas Season.

I am sure that each child who was a recipient of your kindness is extremely grateful to all of you. On behalf of the staff and the Board of Directors please accept our sincerest gratitude.

William R. Hammond
Executive Director

Each week a carton of Chesterfields will be awarded to the writer of the letter considered most interesting by the editors of Technology News.

This week's winner is John M. Backer.

ment was less than 3,000. Of course the vote was swelled by interest in the selection of an Integral Ball queen, and, to a lesser extent, by the NSA issue.

Perhaps this demonstrates the wisdom of scheduling joint elections to encourage greater participation. Nevertheless, we could beat 63 votes if we held an election for school dog catcher in a dark closet at midnight.

By comparison we are an eager beaver bunch of college kids.

Slipstick

Boss: "I wish you wouldn't whistle at your work."

Charley: "I wasn't working, only whistling."

She: "I can read my husband like a book."

Her: "Good, but be careful you stick to your own library."

A girl's life cycle: Safety pins, hair pins, fraternity pins, clothes pins, rolling pins, safety pins.

A quizzical expression came over the Deacon as he read the drug store menu. "Say, boy," he called the soda jerk, "I know all about Shrove Tuesday, Ash Wednesday and Good Friday, but what is a Nut Sunday?"

He: "I bet I can steal a kiss from you."

She: "I bet you two kisses you can't."

TECHNOLOGY NEWS

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CLAUS ENMARK, keeper of the stores in the chemical engineering department, machines a replacement part for a damaged tool.

Claus distributes lab gear & laughs

By Sam Weiman

While probably not as widely known as his contemporaries in the chemistry, physics, and electrical engineering departments, Claus Enmark of the chemical engineering department is the man responsible for the smooth functioning and maintenance of that department's extensive laboratory setup.

Claus was born in Skelleftea, Sweden, a town so close to the Arctic Circle that electric lights are not used between the months of May thru August. (Claus probably takes to the present Chicago weather like a polar bear to an iceberg, that lucky man.) He came to America at the age of 19 in 1926.

He worked with a construction gang almost continuously, with a few breaks to visit Sweden and a winter in a logging camp, until he came to the newly formed Illinois Tech in 1940 with the buildings and grounds department. After a year with that section he went to the chem eng department, where he has remained since.

One of the more memorable incidents of his tour of duty at Tech was the time a student spilled some mercury on the lab floor. When he asked Claus how to gather it up, Claus told him to go to the Chemistry stockroom and pick up a mercury magnet. The student returned in a few minutes with a dustpan with copper wire wound around the handle and inquired, "Where do I plug this gadget in?"

While maintaining and issuing equipment to students may become nerve wracking to say the least, Claus has somehow man-

New deadline for student insurance

The period for enrollment in the student insurance plan with-out the necessity of a physical examination has been extended through Saturday, February 24th.

The price of the health plan is six dollars per semester. When a student terminates his association with the school for any reason, the remainder of the payment will be refunded to him upon request.

All students should realize that those who are insured during the second semester will be eligible to participate in the summer health plan which will provide continuous protection through September.

Any students wishing to buy this insurance may do so at the bursar's office.

Publications board hails new members

At a recent ITSA meeting, Lambert Neighbour, EEE, and Richard Tedrick, MEA, were chosen to fill the vacant positions on the publications board.

The one year appointments return the board to its original strength of four students, one faculty, and one administrative representative. They were necessitated by the completion of terms of office of Evert Saxe, committee chairman, and Sherman Roberts, secretary.

Other board members are Robert Zevitz, newly-elected chairman; Harry Ashbridge; James Armsey, director of public relations, and Pearce Davis, head of the industrial engineering and business and economics departments. Bert Neighbour was elected secretary of the board at a meeting Tuesday.

Tedrick and Neighbour are well qualified to take their positions as members of the board. Before coming to Illinois Tech, they both had experience in the journalism field. Tedrick has been editor of the newspaper at Wright Junior college and has been active at Tech since his arrival a year ago. Neighbour, who is now president of Sigma Phi Epsilon fraternity, was sports editor of a company publication, and a staff member of an armed service newspaper.

One of the main tasks confronting the publications board is the recruiting of staff members for campus publications. With the expected drastic drop in enrollment next semester, publications will be hard hit. The publications board intends to help build up the depleted publications staffs.

The board selects the editors of all school publications. In addition, the publications board makes budget recommendations to ITSA and handles complaints concerning publications. Now under its jurisdiction are Technology News, Integral, Technette, Student Directory and Zest.



"You'd be surprised how much it's improved their accuracy."

Student opinion sought on RO unit

The United States Air Force is considering opening an Air Force ROTC unit on this campus, it was disclosed today by the dean of students' office. Student opinion of the proposal will be polled in the classrooms Monday.

Clarence E. Deakins, dean of students, stated that the administration is strongly in favor of such a program on the Illinois Tech campus. Whether the students are in favor of the move will be determined by the poll Monday.

Officers of the Air Force will inspect the facilities of the Institute Tuesday and Wednesday to consider its adaptability to their program. No final decision will be made until results of the inspection are known.

Membership in this unit would assure a student of completing his schooling. The exact requirements of membership have not yet been revealed.

The program, if accepted, will begin in September. It will in no way affect the NROTC unit already on campus.

"Do you serve women at this bar?"

"No, you gotta bring your own."

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Lytton's

FOR ARROW UNIVERSITY STYLES

Students offered summer in Israel

American students in engineering and allied lines are offered three-month jobs in Israel this summer, where they can get practical experience in their chosen fields under a "summer work program," announced by the Youth and Chalutzit department of the Jewish Agency for Palestine, 16 East 66th Street, New York.

Participants will be assigned to jobs with various public and private institutions in Israel from June 1 to September 1, with salaries sufficient to cover housing and living expenses. In addition, they will be given a series of sight-seeing trips around the country and a ten-day orientation course on modern Israel.

Fields with most openings are civil and agricultural engineering,

soil conservation and surveying, according to the Jewish Agency announcement. Applications will be accepted up to March 1 and must be accompanied by letters of recommendation from university instructors.

Further information concerning this program and other professional opportunities can be secured by interested students by contacting the Israel Club on campus.

Players set for tryouts on new play

Campus Players will launch the spring term with "Death Takes a Holiday" by Alberto Casella, rewritten for the American stage by Walter Ferris.

Newly elected President Sam Weiman urges all persons interested in dramatics, both acting and especially production, to attend a general meeting.

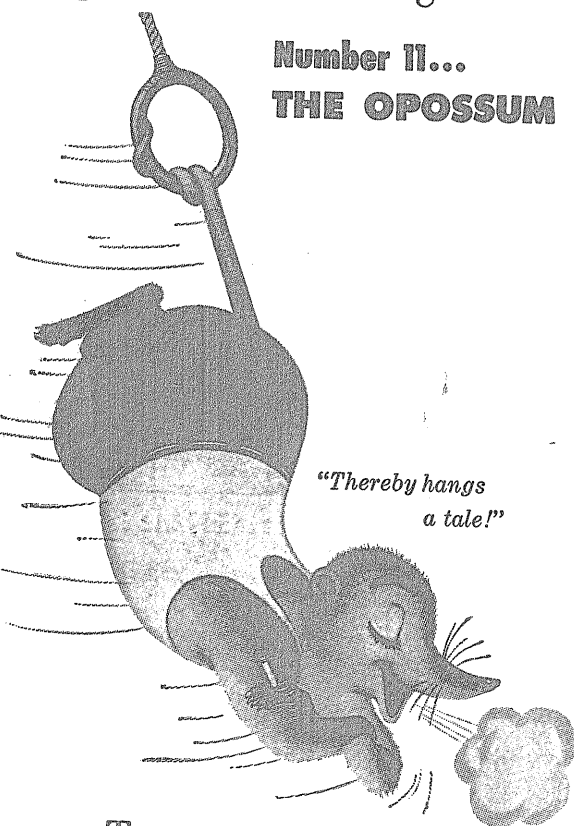
Tryouts will be held during the last week of February. All positions, acting and production, are still open. Further details will be posted in the Tech Newsletter. "Death Takes a Holiday" will be presented in the early part of April.



"Sometimes, Father, I think it would have been better if you had waited till I became an actor to send me my new convertible."

Campus Interviews on Cigarette Tests

Number 11... THE OPOSSUM



The class clown went out on a limb and tried to prove cigarette mildness by the quick-trick method! He tried the fast inhale, fast exhale test—a whiff, a sniff—and they still left him up in the air! But then he got his feet on the ground. He learned that there is a reliable way to discover how mild a cigarette can be!

And that test is...

The sensible test... the 30-Day Camel Mildness Test which simply asks you to try Camels as a steady smoke—on a pack after pack, day after day basis. No snap judgments needed. After you've enjoyed Camels—and only Camels—for 30 days in your "T-Zone" (T for Throat, T for Taste), we believe you'll know why...



**More People Smoke Camels
than any other cigarette!**

Bridge tourney draws 8 students

Four pairs of students will represent the Bridge club in the Intercollegiate Bridge tournament beginning Sunday, according to Ed Rann, director in charge of the tournament at Illinois Tech.

Each two-man team plays a number of pre-set hands at the local campus under the direction of the tournament director. Results of this play are tallied and sent to the Intercollegiate Bridge tournament officials who choose the finalists on the basis of these scores.

Teams representing Illinois Tech are composed of Robert Mateer and Harry McDonald, Morton Davis and Charles Rahm, Sten Hodgson and Henry Henriksen, and Amanullah Khan and Ralph Stusrud. Each school is limited to four entries.

These pairs are the most consistently high-scoring partnerships among the 30-odd regularly

playing Bridge club members, according to Rann, a BE graduate student. Duplicate bridge tournaments, open to all faculty and student bridge players, are held every Tuesday at 6:30 p.m. in the Student Union auditorium or dining rooms, he added.

Joseph Rodgers and Bernard Baranski were awarded prizes at the last meeting, January 16, for taking top honors for the previous semester, Rann announced. The club presents awards to the outstanding team at the end of each semester.

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JUST ACROSS THE CAMPUS

Announce changes on Tech News staff

With the change in semesters, new names and faces are appearing in the office of **Technology News**. The general shake-up extended also to the managing board, with editor-in-chief John Scannell making the following announcements:

Len Druian will assume the position of sports editor, succeeding Marks Levy, now with Uncle Sam's fleet. Len was Mark's assistant last semester and has been with sports for quite a while.

Filling in for feature editor Al Plait (also with the navy), will be Jim Stebbins, former copy editor.

The copy editor job will be shouldered by Liz Ascher, who has

long been active in publications. Liz is one of the few young ladies who can boast of being a fraternity brother.

Joe Rodgers, who had been laid up as the result of an auto accident, will head the Newsletter staff. He plans several innovations, chiefly in the distribution field.

Start industrial studies in Mexico

Recognizing that modern scientific research is a "teamwork" proposition, Mexico recently organized the first industrial research unit in Latin America.

Located in the Loma Hermosa district of Mexico City, a

trail-blazing group of scientists and engineers combine their talents to solve the industrial and agricultural problems of 23 million people.

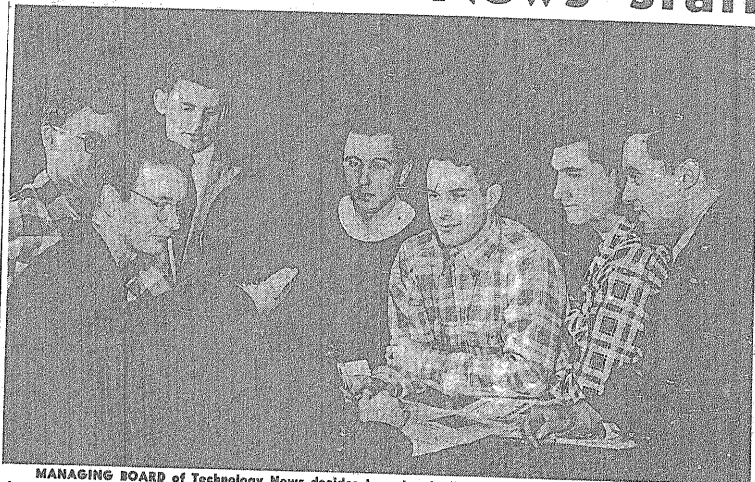
The Mexican Institute of Industrial Research, jointly sponsored by the Bank of Mexico and the Nacional Financiera, is the outgrowth of a technological audit conducted by Armour Research Foundation of Illinois Institute of Technology.

Two officials of the bank, Carlos Novos, director general, and Gonzales Robles, chief of industrial investigations, were largely responsible for the formation of the institute. Currently under the supervision of Manuel Escandon, director, the Institute is staffed by teams of Mexican and American scientists.

The facilities of the Institute, which occupy 15,000 square feet of floor space, include fully equipped research laboratories, an analytical laboratory, balance room, grinding room, constant-temperature room, a shop, library, and offices, plus large areas for pilot plant and engineering development.

Current projects include a search for a fuel to replace the wood charcoal now being used and studies on the dehydration and storing of tortilla flour.

Since the technical audit which



MANAGING BOARD of **Technology News** decides to cut out all sex from future issues. Joe Rodgers, fourth from right, just can't believe it, as Wally Kaiser, sitting at the left, breaks into tears. Others, who can take anything in their stride, are Chief John Scannell with his broad back to the camera, and standing, left to right, Les Hymes, who almost managed to get into the act; Don Carlson; Jim Stebbins; Len Druian, and Bert Cohn.

started in 1945, Mexican and American scientists have worked together in both Yucatan and Chicago on such projects as the development of a powdered tannin

extract, the utilization of henequen wastes, a study of vegetable oils, and a method of producing quinine.

Dr. Milton E. Nelson, assistant

director of the International Division of Armour Research Foundation, is director of laboratories at the Institute and in charge of all technical research.

WSE features anonymous elocutionist

The Western Society of Engineers announces its first "Young Engineers Night" on Monday, February 26. To be held in the society's headquarters at 84 E. Randolph street, the evening will feature, besides a dinner, a prominent leading engineer, whose identity will remain unknown, speaking on opportunities and methods of advancements for young engineers.

The dinner is open to all students of Illinois Tech, regardless of membership in the WSE. Its purpose is to acquaint the students of IIT with the facilities of the society and to launch a membership drive on campus.

J. Earl Harrington, executive secretary of WSE, will describe the functions of the society at the dinner. Also on the program will be some light entertainment by two students from IIT.

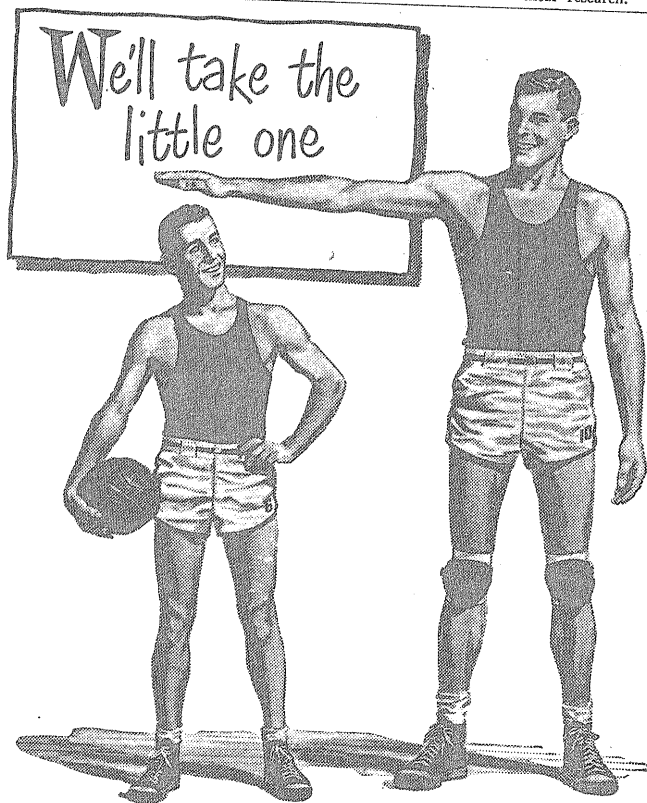
"Hello, is this the Salvation Army?"

"Yes, it is."

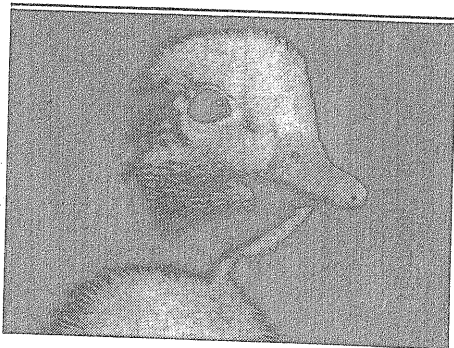
"Do you save bad women?"

"Yes."

"Well save me one for Saturday night."



J. Paul Sheedy* Switched to Wildroot Cream-Oil Because He Flunked The Finger-Nail Test



POOR Paul was having a fowl time because his down was up. All the chicks made wise quacks about his upswep hairdo until his shellmate suggested he duck over to the drugstore. "Waddle I do?" he asked. "Get Wildroot Cream-Oil!" the druggist answered. "Non-alcoholic. Made with soothing lanolin. Grooms your hair neatly and naturally without that plastered-down look. Removes ugly dandruffs—I mean ugly dandruff! Helps pass the fingernail test!" Now he's engaged—he's lovely—he uses ponds—to swim in! (Isn't he ducky one?) So water you waiting for? Get a tube or bottle of Wildroot Cream-Oil Hair Tonic at any drug or toilet goods counter today. Ask your barber for professional applications. And tell all your webfooted friends it's eggactly what the doctor ordered!

* of 327 Burroughs Dr., Snyder, N. Y.

Wildroot Company, Inc., Buffalo 11, N. Y.



THEY'RE both good basketball players. But if we were to judge them the way we judge telephone equipment, we'd take the small one.

You see, telephone equipment occupies valuable space, uses costly materials. Paring down its size helps keep down the cost of telephone service.

Take voice amplifiers, for example. Telephone engineers put the squeeze

on size, came up with a new small type. When 600 of these new amplifiers are mounted on a frame two feet wide and eleven feet high, they do a job which once required a roomful of equipment. Size was cut—but not performance!

This is one of many cases where the Bell System has made big things small to help keep the cost of telephone service low.

BELL TELEPHONE SYSTEM



Reserve officer training programs opened by Navy

Three commissioned officer training programs have been reopened by the Navy and Marine Corps. It was disclosed this week that enlistment in any of these programs provides deferment until the completion of the students' degree.

Veterans are eligible for these programs, but non-veterans who have received their pre-induction physical examination notices are ineligible.

Marine Corps platoon leaders class is concerned with freshmen, sophomores, or juniors over 17 but not older than 25 at the time of receiving a degree. To be eligible for this training the student must pass a physical examination equivalent to the one given for entrance to the Naval Academy. The applicant must be a U. S. citizen and not a member of any other reserve.

Training consists of two six-week training periods held during

the summer. If for any reason this officer training is not completed, the student may be transferred to the Marine Reserve or discharged from the Marine Corps. Withdrawal from the program at the applicant's request is also permitted.

Marine Corps officer candidate course is exclusively for seniors or graduates over 20 at the time of enlistment but not over 27 by July 1.

Applicants must be U. S. citizens, must not belong to any other

reserves, and must pass the officers' physical examination. A 10-week officer candidate training period will be given at Paris Island, South Carolina.

Those candidates successfully completing this training will then be assigned to Marine Corps schools for basic officer training. Withdrawal from this program upon failure or request will be granted, so that the candidate may either be discharged from the Marine Corps or may be retained in the enlisted reserve status and assigned to active duty.

The Navy is also offering reserve commissions through the Naval Reserve. To be eligible for this program the applicant must be a member of the Naval Reserve, must be between the ages of 17 and 27, must be a U. S. citizen, and must be able to attend two six-week training periods during the summer. It must be realized that enlistment in the Naval Reserve does not insure appointment to the Reserve Officer Corps.

SU book exchange has \$ \$ \$ to offer

Techhaws in search of spare cash were reminded earlier this week by Alpha Phi Omega's book exchange that the latter has a surplus of customers and a lack of merchandise. Consequently, there is an open market for almost all textbooks which are not obsolete or in complete disrepair. Many students are now familiar with the advantages entailed in patronizing the exchange, both in buying and selling.

When a student wishes to sell a book he merely brings it to the APO office, located on the west wall of the SU auditorium, fills out a standard form, leaves the book, and waits for a notification of sale from APO. He is free, incidentally, to name his own price—which becomes a set price, unchangeable by any one except the seller.

A buyer has no application to make or form to fill, but has merely to walk into the exchange, inquire about desired books, and purchase those which are there and whose prices are satisfactory.

APO gains nothing from these transactions, but merely acts as the middleman in this service to the student body. It asks only that patronizers note the large bottle stationed near the door which is labeled "donations to cover expenses incurred in operation."

Westinghouse fellowship again offered

Illinois Tech is now accepting applications for the 1951 Westinghouse fellowship in power systems engineering. It was announced today by Dr. W. A. Lewis, dean of the graduate school.

An award of \$1,500 and tuition for three semesters of full-time intensive training leading to a master of science degree in electrical engineering will be presented to the successful applicant.

Candidates must have a bachelor's degree in electrical engineering from an accredited engineering college. The award will be based on personal qualifications, interest, and scholarship. The course of study includes both practical and theoretical training. It includes experience with the \$100,000 A-C network calculator in actual power systems studies for utility and manufacturing companies.

A research project in power systems engineering is determined by the Institute and engineers of the Westinghouse Electric corporation.

Term of the fellowship will begin September, 1951. Applications must be received by March 15. The winner will be announced April 1.

Further information and application blanks may be obtained from the graduate school office.

tech timetable

FRIDAY, FEBRUARY 16

Faculty meeting, 4 p.m., 131MC
Kaffeeklatsch, 4 p.m., Exec. conf. room
Music groups, 5 p.m., SU Aud.
IVCF, 5 p.m., AH conf. room
Pan Hellenic council, 5:30 p.m., 102C, 108C, 114C
Alpha Lambda Pi, 5:30 p.m., 105MC

MONDAY, FEBRUARY 19

APO, 5 p.m., 101MC
Lost Greeks, 5 p.m., Exec. conf. room
Ada S. McKinley dinner, 6 p.m., SU lounge

TUESDAY, FEBRUARY 20

SAW, 12 p.m., 101MC
Model Airplane club, 12 p.m., 105C
Tau Beta Pi, 12 p.m., 102MC
IPC, 12 p.m., 115C
Lecture, Professor Lacour-Gayet, 1 p.m., 131MC
LSA, 5 p.m., Exec. conf. room
Music groups, 5 p.m., SU aud.
Bridge club, 6:30 p.m., SU aud.

WEDNESDAY, FEBRUARY 21

Sigma Kappa, 3 p.m., Pan Hellenic room
IFC, 5 p.m., MC conf. room
ASCE, 8 p.m., 131MC
FPES, 8 p.m., SU lounge
Sigma Xi, 8 p.m., 115 CB
IPC Rushing dance, 8 p.m., SU aud. & lounge
Sigma Xi, 9 p.m., Exec. conf. room

FRIDAY, FEBRUARY 23

Faculty council, 3 p.m., Exec. conf. room
Kaffeeklatsch, 4 p.m., Exec. conf. room
IVCF, 5 p.m., AH conf. room
Music groups, 5 p.m., SU aud.
Armour Eye, 6:30 p.m., Exec. conf. room

SATURDAY, FEBRUARY 24

Model Airplane club, 1 p.m., SU aud.

Employee's union, 8 p.m., 115CB

MONDAY, FEBRUARY 26

Brotherhood Week movies, 1 p.m., 115CB

APF, 3:45 p.m., Exec. conf. room

TUESDAY, FEBRUARY 27

Brotherhood Week, 1 p.m., SU aud.

Honors "T" World Series, 1 p.m., 131MC

Music groups, 5 p.m., SU aud.

LSA, 5 p.m., Exec. conf. room

McKinley House, 6 p.m., SU lounge

Campus Players, 6:30 p.m., SU aud.

WEDNESDAY, FEBRUARY 28

Brotherhood Week movies, 1 p.m., 115CB

Campus Players, 6:30 p.m., SU aud.

THURSDAY, MARCH 1

Brotherhood program, 1 p.m., 131MC

Graduate examination, 3 p.m., 102C

Music groups, 5 p.m., SU aud.

Campus Players, 6:30 p.m., SU aud.

FRIDAY, MARCH 2

Brotherhood Week, 1 p.m., 115CB

Kaffeeklatsch, 4 p.m., Exec. conf. room

Music groups, 5 p.m., SU aud.

IVCF, 5 p.m., AH conf. room

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STUDENT UNION

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Two Barbers

Ernest Pirofalo, Mgr.

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From Stanford to Kentucky,
The saying you'll hear quoted most
is, "Let's light up a Lucky."

Russell M. Howard
San Jose State College

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If you're not happy with your present brand (and a 38-city survey shows that millions are not), smoke Luckies! You'll get the happy blending of perfect mildness and rich taste that fine tobacco—and only fine tobacco—can give you. Remember, Lucky Strike means fine tobacco. So get complete smoking enjoyment. Be Happy—Go Lucky today!

In research I find many things
And no two are alike.
But I have yet to find a smoke
As mild as Lucky Strike!
François J. Queyras
Lafayette College

I never liked to smoke before,
It didn't taste so well,
But now I've tried those Lucky Strikes—
I really think they're swell!

Frank L. Myers
State Univ. of Iowa

LS/M.F.T.-Lucky Strike Means Fine Tobacco

CORP., THE AMERICAN TOBACCO COMPANY

Year of research successful—ARF

Scientific progress on more than 150 widely varied research projects is described in an annual report issued by Dr. Haldon A. Leedy, director of Armour Research Foundation of Illinois Institute of Technology.

The fiscal year 1949-1950 was the most successful in the 14-year history of the Foundation, Dr. Leedy stated in the 56-page report.

Armour's staff of almost 700 persons undertook a total of 337 projects, he reported. This represented an investment of \$4,614,958, an increase of 12.1 per cent over the previous year.

Foundation scientists and engineers specialize in the applied sciences, including physics, metallurgy, ceramics, mechanics, chemistry, and electrical engineering. They form research teams to solve many problems. A physicist, chemist, and metallurgist might pool their talents on one project, for example.

Such varied subjects as palm oil, scouring cleanser, human muscles, music, and aircraft windshields received the professional attention of researchers at Armour during the year.

The Foundation's work is supported by industrial concerns and government agencies who sponsor individual projects. It is a not-for-profit, non-endowed scientific research organization, and any excess of income over expenses is used to finance fundamental research and defray cost of public service activities.

Here are a few representative achievements:

Physicists predicted the acoustics of a music pavilion before it was built, through ultrasonic studies on a scale model of the structure.

Chemists developed a photographic film that will operate at temperatures ranging from 65 degrees below to 140 degrees above zero Fahrenheit.

Engineers studied the design of aircraft windshields which incorporate transparent, electrically conductive films for anti-icing.

Ceramists invented a way to measure the cleaning efficiency of a scouring cleanser.

Electrical engineers constructed instruments that record electrical signals obtained from electrodes inserted into muscles.

Metallurgists found a substitute for palm oil in hot dip tinning which is especially promising in regard to domestic supply, quality, and economics.

Of direct aid to the nation's defense effort were projects on rockets, cosmic rays, recoilless rifles, jet engines, low temperature lubricating oils, a flight simulator, and aviation fuel.

"An increasing number of projects directly concerned with national security can be expected," Dr. Leedy predicted. "Armour Research Foundation is prepared to carry out its share of this research mission."

The International Division of the Foundation surveyed technological conditions for the Republic of El Salvador and Cuba during the year. A new industrial research institute was established in Mexico City by the Bank of Mexico, and an Armour staff member acts as director of laboratories there.

The Foundation introduced a radically improved form of magnetic recording shortly before World War II. Today a Magnetic Recorder Division serves 46 companies licensed under Armour's patents.

Physicists have taken more than 50,000 measurements of city noise in a methodical survey of urban clamor. The new information will be helpful to lawmakers and city planners.

Another public service is the

National Registry of Rare Chemicals, a card file of information on sources of 21,500 compounds. Last year the Registry answered 8,000 inquiries from scientists the world over.

In the field of housing research, Armour undertook a long-term program for the Structural Clay Products Research Foundation last year. Other projects included the investigation of a steel building panel, a study of sound transmission through windows, and the development of light-weight aggregates for concrete.

The physics and electrical engineering departments moved into a newly remodelled Physics Research building recently. The metals department acquired two new laboratories, and other departments added to their research facilities.

Of the 337 projects active during the year, 182 were sponsored by industrial concerns, 94 by government agencies, and 61 by the Foundation itself.

Charity fund nets \$930 this semester

The annual charity drive held during the registration period this semester netted a total of \$930 for day school students.

This semester's total may be compared with that of last semester's \$1,094. But in proportion to students enrolled, this semester netted more. Last semester the average was forty cents per student, while this semester the average was forty-five cents per student.

The money taken in during the drive will be distributed as follows: American Red Cross, 5%; Community Fund, 15%; Sister Kenny Foundation, 10%; Ada S. McKinley community house, 35%; Chicago Heart association, 5%; Salvation Army, 10%; World Student Service fund, 10%; Spastic Paralysis, 5%; cancer fund, 5%. Helping in the collection of funds and in publicizing the drive by means of posters and pamphlets were Ted Spath, Bob Bonin, and George Aravosis.

The charity drive during registration is the only drive for funds which is held on campus throughout the entire semester.



"Some of you may find it difficult, at first, to adjust yourselves to this early morning class period."

THE DU PONT DIGEST

Bringing Up Alathon*

Du Pont scientists find great promise in this young member of the wax family

One of the most interesting and versatile of the new plastics is Du Pont "Alathon" polythene resin, chemical cousin of paraffin.

Because of its unusual combination of properties, it is now being used in everything from "squeeze-bottles" for toiletries to cable insulation and chemical-resistant linings.

"Alathon" was born when English scientists used high-pressure synthesis to create polythene, the solid and semi-solid polymers of ethylene.

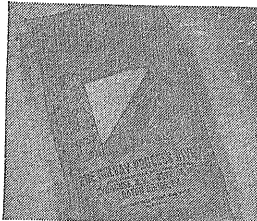
Du Pont scientists and others added their background in high pressure work to the field of ethylene polymers. This concerted effort produced a greatly expanded range of uses.

Taking First Steps

The first step of Du Pont chemists and engineers was to produce polythene in the laboratory to confirm earlier findings. Then the product was turned over to chemical engineers for pilot-plant work. Finally, a plant for full-scale commercial production was designed by chemical, mechanical and electrical engineers and metallurgists.

Many of the most promising uses

for "Alathon" could not be realized until technical difficulties were overcome. For example, the chemical inertness, which is one of the outstanding properties of the material in film form, also made the casting of film from solution impractical because it could not be dissolved in suitable solvents. In devising a special extrusion technique to solve this problem, Du Pont engineers opened up a whole new field of possibilities.



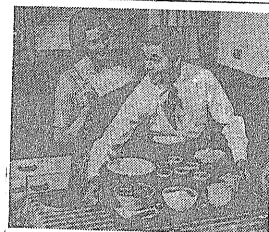
Multilwall bags for chemicals and foods are made of kraft paper coated with "Alathon."

Acid-Defying Paper

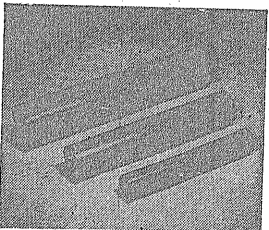
In film form, "Alathon" lends its strength, chemical inertness and resistance to grease and moisture to packages for chemicals, foods, metal parts and moisture-sensitive powders. In still another form in which these properties are employed, paper coated with "Alathon" is used as wrapping for bakery products and moistureproof containers for chemicals that would attack uncoated paper. (Experimentally, "Alathon" coated paper has been exposed to concentrated sulfuric acid for days without harm; the same paper, uncoated, was ruined within a few minutes.)

The protection of "Alathon" was extended to metal tanks and drums when Du Pont engineers developed a spray-flaming coating technique.

In the field of electricity, too, "Alathon" is proving of great value. Its outstanding electrical properties



All "Alathon"—ice-cube trays, refrigerator bowls, tableware and protective coverings.



Pipe made of "Alathon" is used for handling corrosive chemicals, solutions and gases.

make it an ideal insulator for wire and cable, particularly in the high-frequency applications necessary in television and radar.

"Alathon" in powder form is used for molding a wide range of light, tough and flexible plastic articles. In addition to bottles, these include tumblers, dishes, jar caps and ice-cube trays. Extruded as a film, it serves for garment covers, tablecloths and rainwear.

The future looks bright for "Alathon." New applications such as extruded pipe for mines and separators for storage batteries seem about to be realized. Other uses yet undreamed of will no doubt emerge from the close, continuous teamwork of technical men that typifies Du Pont research.

*REG. U. S. PAT. OFF.

DID YOU KNOW . . .

six out of ten Du Pont plant managers and superintendents started with the company as chemists, analysts, technicians or engineers.



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Illinois Tech Bookstore



Blow-molded "Alathon" bottle, with molded closure. It emits a fine spray when squeezed.

Investigate charges of TFU flop

After discovering that the Technology Film Unit incurred a debt of \$125 in one semester, the board of control of ITSA ordered the organization to disband last month. ITSA president, Don Lynch, appointed a fact-finding board, headed by Treasurer Bill Comis, to investigate the cause of the organization's financial failure.

At a closed meeting, it was decided that the blame for running into debt lay with the officers and faculty sponsors of the group. Still hanging in the fire, however, is the matter of who is going to foot the bill for the \$125. Investigation of whether or not ITSA has the power to charge either students or faculty sponsors for the debts they have incurred is being pressed.

The officers of the organization blame improper direction from sponsors. Faculty representatives counter with the charge that a lack of interest on the part of the members was responsible.

Findings of the investigation revealed that, although books were kept, only one report was ever made to any of the sponsors. It was also disclosed that there was no ticket sales manager and no record was kept of tickets or receipts.

Enrollment nosedives by over 400

Figures obtained from the registrar's office indicate a drastic drop in enrollment this semester.

As of Tuesday, there was a total of 2,240 day undergraduate and 240 graduate students. The total enrollment is 2,480, as compared with 2,920 students in September 1950, and 3,100 a year ago.

The evening division has also suffered with a 6-month decrease in enrollment of 675 to the present figure of 3,275. An overall picture shows a total of 5,760 day and evening students currently enrolled, as against 6,870 in September 1950.

The admissions office listed 280 incoming students, of these 116 being freshmen. Entering were 49 veterans still under the GI bill.

The EE and ME departments received the most new students with 31 enrolled in each. Not far behind was the Institute of Design with 26. The architecture department can lay claim to only one new man.

J. Sanger, '21, alumni v.p., passes away

John Pomeroy Sanger, vice-president of the Alumni association, passed away February 10 at his home in Evanston. Receiving his degree in 1921, Sanger was class president and editor of the college magazine and yearbook.

He was vice-president and director of purchases for the U. S. Gypsum Company and served as an active member of the Hoover commission. During the war, Sanger worked with the office of Production Management.

EE graduates not prepared—Lewis

Sharply divergent trends in industry and education have left today's electrical engineering graduate less prepared to take his place in the power and utility industries than the graduate of 25 years ago.

That was the contention voiced January 24 by Dr. William A. Lewis, dean of the graduate school of Illinois Institute of Technology, as he made a plea for support of graduate education in electrical engineering.

Speaking before the winter meeting of the American Institute of Electrical Engineers in New York, he cited advancements in power engineering, and specialization in electronics, communication, and radio which was unheard of in 1925.

"Although the curriculum at that time was not considered to be specialized, it contained little or no training in electronics, communication, or radio, all of which are an essential part of every electrical engineering curriculum today.

"Furthermore, the emphasis on the broadening of the outlook of engineering graduates has resulted in increased emphasis on liberal studies and humanities, with a resulting decrease in technical content.

"In comparison with the four-year engineering curriculum of today," Lewis pointed out, "that of the graduate of 1925 would be considered a specialized course in the power field."

The obvious result is a graduate less qualified to take his place in the power industry than the graduate of 25 years ago.

The alternative solutions are costly—wider in-plant training programs, or graduate education.

"The answer lies with the public utility industry to seek and demand graduates with advanced

education. The industry is not accustomed to seeking anything but a four-year graduate," Lewis said.

Placement schedule

MONDAY, FEBRUARY 19
Procter & Gamble

TUESDAY, FEBRUARY 20
Procter & Gamble

Bell Aircraft
Sandia (Bell Tele.)

National Starch Products

WEDNESDAY, FEBRUARY 21
Esso Standard Oil Co.

Bell Aircraft

FRIDAY, FEBRUARY 23
National Advisory Committee for Aeronautics

MONDAY, FEBRUARY 26
Oak Ridge Labs

Link Aviation Inc.

TUESDAY, FEBRUARY 27
Oak Ridge Labs

General Electric

WEDNESDAY, FEBRUARY 28
Oak Ridge Labs

General Electric

Marathon Corp.

THURSDAY, MARCH 1
Providence Wash. Insurance Co.

FRIDAY, MARCH 2
Natural Gas Pipeline of America

MONDAY, MARCH 5
Motorola

Caterpillar Tractor

Illinois Bell

Bell Tele. Labs

TUESDAY, MARCH 6
Illinois Commerce Commission

Caterpillar Tractor

Illinois Bell

Bell Tele. Labs

Minnesota Mining & Mfg. Co.

WEDNESDAY, MARCH 7
Philco

THURSDAY, MARCH 8
Pratt & Whitney Aircraft

ARF extends gas engine and heat labs

Spurred by the needs of war and industrial demands for research in the gasoline and diesel engine fields, Armour Research Foundation of Illinois Institute of Technology announced a 30 per cent expansion of its engines and lubricants and heat transfer laboratory facilities.

According to Wilson P. Green, assistant chairman of applied mechanics research, some 1,800 square feet of floor space has been added to house a new 200-300 horsepower Sprague-type electric dynamometer, fuel metering and weighing equipment, air metering equipment, recording temperature instrumentation, and additional specialized equipment for engine development projects.

The dynamometer and its accessory equipment is especially suited for power tests, friction horsepower measurements, fuel consumption tests, cycling load tests, and combustion studies on engines up to 300 horsepower.

This supplements the d.c. dynamometer equipment installed last January by the Foundation to handle small engines of 1½ to 20 horsepower.

The new facilities have been constructed so that noise of engines will not affect research operations in the rest of the building. Armour's engines and lubrication research department gained widespread notice in 1948 when its gear lubricants section, supervised by H. Ruwe Barton, became qualifying agency for all fluids used in hydraulic drives.

The engines and lubrication research department is currently using all of its engine oil and gear lube testing and development facilities in qualifying oils for use in military vehicles.

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32nd & MICHIGAN AVE.**

Makielski leaves campus, goes to Bendix Aircraft

By David Hirsch

John "Pedro" Makielski, the registrar at IIT, has been appointed to the position of assistant to the administrative engineer at Bendix Aircraft and Products corporation in South Bend, Indiana. He will assume his new position at the Bendix plant Monday, his duties consisting of personnel work with the engineering department.

John will take care of hiring, salary administration and training programs coordinated between the Bendix corporation and colleges; research work and cooperative educational programs. John, to his own admission, is no youngster ("I'm pushing 27"). He is a native of South Bend and finished his high school education there.

In January of 1947 he received his bachelor of science degree in mechanical engineering at Illinois Tech. The following June, Makielski received a similar degree in industrial engineering here. Though perhaps not madly interested in sewing machines, John took a position with the Singer Manufacturing company in June of 1947. Shortly afterward he went to work for the Dodge Manufacturing company as a plant layout engineer at Mishawaka, Indiana.

Experiencing a strong desire for rumbling trains and soot covered desks, John again returned to Illinois Tech in September, 1948, as the administrative assistant to John Rettaliata, dean of engineering. In March of 1950, John succeeded Raymond D. Meade as registrar. The following December John received his master of science degree in business administration at the University of Chicago, specializing in production management.

Besides being an outstanding student while attending IIT, John showed great aquatic prowess as a member of the IIT swimming team. He was appointed swimming coach in September, 1949. Under his guidance the swimming team has experienced four wins and two losses to date. John hopes for at least seven wins before the season ends.

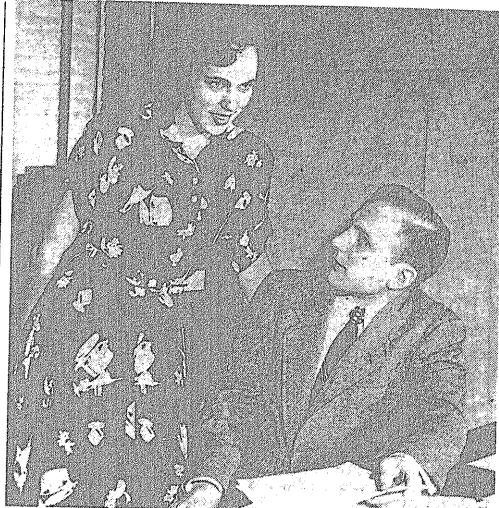
IIT has influenced John Makielski's life in ways other than educational for it was here that he met his wife. "She tripped me while I was walking thru the Metallurgy building," he said jovially. He didn't say what he was doing in the Metallurgy building.

Mrs. Makielski, the former Margaret T. Williams, is a June, 1948 graduate of the College of St. Francis in Joliet, Illinois, where she received a bachelor of arts degree as a history major. Margaret is presently employed by the public relations department at IIT as a news and feature writer. She came to IIT in September, 1948. John and 24-year-old Margaret were married in July, 1950.

"This is going with me," said John as he tenderly fondled a black velvet fedora which his wife gave to him last Christmas. He described the color as a "soft, academic black," well suited for wear around the college campus. Perhaps some day that black hat may join the trademarks of our eminent men in engineering such as Charles F. Kettering's baldhead and Albert Sloan's pot belly. All indications point in that direction.

Willie, in a fit insane, thrust his head beneath a train. All were quite surprised to find How it broadened Willie's mind.

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FORMER REGISTRAR John Makielski, and wife Marge, until recently student publicist, straighten out details of their forthcoming move to South Bend. Let her sit down, John!

Honorary biology society organized

The first meeting of Phi Sigma, honorary biology society, was held in December under the direction of past president Russell Levy. The meeting was devoted primarily to organization, with election of new officers taking place. Robert Betz, instructor in biology, was elected president; Otto Kroh, psychology undergrad, vice-president; Edward Parker, biology grad, secretary, and Loren Iversen, psychology undergrad, treasurer.

Phi Sigma society, one of the oldest honorary societies in this country, was founded to increase interest in the biological sciences, admitting only students of highest academic standing to membership. Society rules stipulate that only students in the upper third of their class may be invited to become a member.

At present the Illinois Tech chapter is an affiliate member of the national society but expects to become a charter member in the near future.

A society meeting will be held Thursday with movies on narcosis being shown, followed by a short business meeting. All interested are cordially invited to attend the movie showing.

SUC auctions lost-found in two weeks

The Student Union committee of the Illinois Tech Student Association will hold its semi-annual auction of lost articles during the third week of this semester.

All names which were on lost articles will be posted this week on the ITSA bulletin board outside the SU cafeteria. Articles may be claimed during the free periods, Tuesday and Thursday, in the ITSA office, second floor, Student Union.

Articles which will be auctioned include good slide rules, text books, note books, an umbrella, gloves, scarfs, hats, a shaving kit, and a rock collection.

Chess players see full term ahead

By Gale Hovey

Not as widely publicized as our varsity teams, the Chess club nevertheless is still very much a living and growing organization. Though the club has not been quite as active in the last semester as in the two preceding years, a good solid schedule has been maintained with the other teams in the Chicago Collegiate Chess League, which includes University of Illinois at Navy Pier, University of Chicago, Northwestern, Wilson J. C., Morgan Park J. C., and Roosevelt college.

Three matches were played between semesters—one by the class A or graduate team, which is independent of the regular college team and is composed of Tech grads, and two by the undergrads. The grads fought to a 3-3 draw with the Hamilton Park Chess club.

The undergrads split a pair with U of C and Roosevelt college, winning from U of C and losing to Roosevelt 2 1/2 to 3 1/2.

The matches are set up on a six man-six board basis, with a time limit during which each player must make a certain number of moves. The team is made up as follows: Captain, Kimball Nedved; second man, August Meiers; third man, Edwin Kolodziej; fourth man, Julian Braun; fifth man, Stan Przeniczny; Lee Jacobs and Dave Powers are the alternates.

All of these men are quite prominent in local chess circles. Nedved, for instance, is rated fourth in the city of Chicago, and fifth in the state and recently won first place in an invitational meet composed of the eight top players from the 30 to 40 active clubs in Chicagoland.

The Chess club at Illinois Tech has had some players go on to championships. The first president of the club recently was a city

finalist, and another former president is now Florida state champ. For a time the club also carried on a radio chess tournament with a chess club in Iowa with the assistance of Rho Epsilon, the radio honorary.

One of the services of the Chess club will soon be in evidence in the form of chess sets for the use of students in the Student Union.

The next match scheduled is a match with Northwestern February 25. Since IIT has been victorious in their previous matches it is hoped that they will again walk off with the honors.

There is always room in the club for a fellow with ability and will to win. Freshmen or anyone with a genuine interest in turning his talents to competitive play is urged to contact Kimball Nedved as soon as possible.

Bierstedt will address LSA Tuesday

The Lutheran Student Association will hold its first meeting of the semester Tuesday at 5:15 p.m. in the executive conference room, Student Union building. The Reverend Paul Bierstedt will speak on "The Relevance of the Gospel for the Student" and a discussion on the subject will follow. Pastor Blenker, the group's advisor, will also be on hand to greet the members.

This semester LSA meetings will be held weekly in the executive conference room on Tuesdays at 5:15 p.m. with alternate regular and Bible study meetings.



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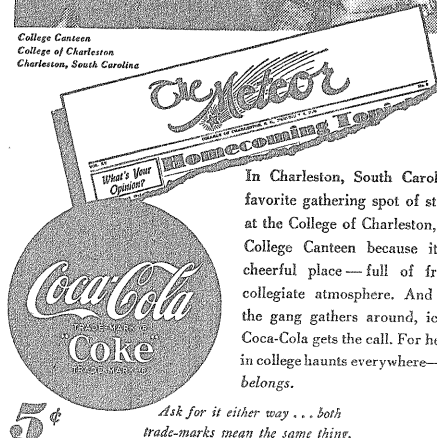
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Techawks edge Chicago Teachers

Bucketeers upset Colonels in overtime period, 81-75

By Ronnie Sager

Illinois Tech's basketball squad scrambled its way back into the local limelight Tuesday night as they upset Chicago Teachers College, 81-75, in an overtime game at the Colonels' gym. The game was a fast-starting one, with the Teachers taking a slight lead from the gun. This lasted only about four minutes as Tech roared back to tie and go slightly in front.

Both teams got hot and the battle was nip and tuck until the last seven minutes of the half when John DeRoos sparked a rally that sent IIT ahead 38-28 at the intermission. Unfortunately DeRoos was injured toward the end of the half. A medical examination showed a broken cheekbone and an operation was scheduled for yesterday.

The Techawks displayed superiority at the beginning of the second half, widening their lead to 15 points and holding it for most of the half. A hectic rally in the last few minutes, and a desperation shot by Helmar Rengstrom of CTC as the gun went off, tied the score at 68-68.

The overtime period was all Tech as Joe Byerwalter scored as many points as the Teachers' outfit combined, and Fred Cassel threw in two baskets and a free throw.

Byerwalter and Bob McCue led the winners in scoring with 18 points each, while Howie Gardner added 12 and DeRoos contributed 10 before his injury. Center Jim Tracey of CTC led

all scorers with 22 points before fouling out near the end of regulation time.

Previous to the CTC game, Tech's basketball fortunes were both hot and cold. On January 5, the Techawks blew a 10 point lead and were edged out 61-60 on the Concordia court. After that they were not to taste defeat for a month. In the interim they enjoyed a five game winning streak which began January 9th, as the red and gray avenged a previous two-point defeat to outlast North Central 65-63 at Naperville.

Two days later, IIT ran up its highest total of the year as they defeated Milwaukee Teachers 78-70. The game was highlighted by Bob Leiser's 28 points and Bob McCue's 19. The University of Chicago was the next victim as the Techawks extended the Maroon's losing streak 57-53 and

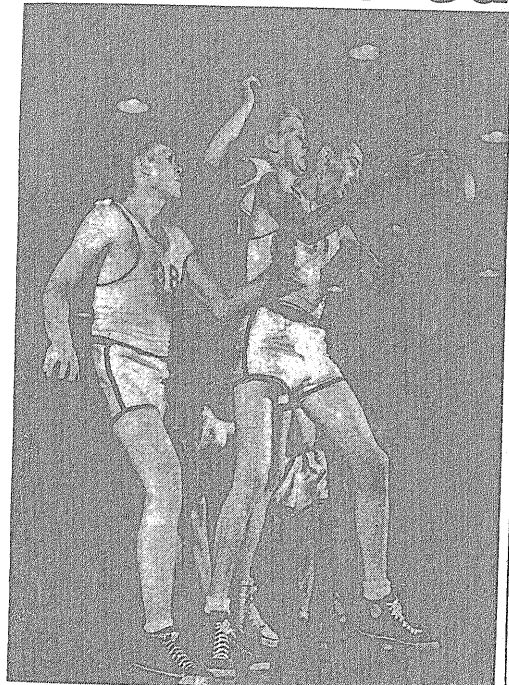
at the same time captured both ends of the home-and-home series.

It was the next game in which the cagers displayed their finest brand of ball. This was the upset defeat of Wheaton College, which had previously beaten Loyola of Chicago. The Wheaton court was the scene of the 71-68 victory in which Bob McCue's brilliant performance sparked the victors to their greatest triumph.

McCue hit for six field goals and sixteen consecutive free throws. The sixteen free throws placed McCue second in free throw production in a single game among small college players for the entire country.

A two-week layoff due to final exams followed with competition resuming February 1, facing Omaha College in the Tech gym.

(See BASKETBALL on page 11)



JOHN DEROO PICKS ONE off the backboard while Howie Gardner backs out of way. Tech took this game from the University of Omaha by a narrow four point margin.

Tech Sports

Wolves' crown contested by intramural quintets

Though checked by final exams and mid-semester vacation, intramural basketball action moved steadily towards its climax with five teams pacing the action. The defending champion Wolves opened defense of their title with a convincing 44-10 win over the Archers. Center Sherwin Small led the winners with 15 points, and guard Jerry Maatman added 12 more points to their final count.

This impressive victory marks them as the team to beat for the title and the right to play IF champs in the annual battle. The Accidents seem to be the Wolves' chief opposition for the Section B crown. Podunk AC fell before the Accidents, 38-30, as Tony Weaver hit for seven field goals.

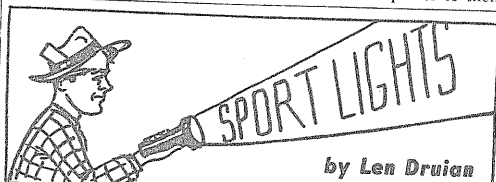
Both the Ravens and the NROTC gained consecutive wins to tie for the lead in League A. The Ravens whipped the Gooks and the Friars, while the Navy was taking care of the Gooks and the Newman Club.

A new team, the FPE's have taken the lead in the third league. Their initial contest found them whipping the Hungry Five, 41-20. Their second win was a bit closer as the Fowler Hall five bowed 25-16.

Other action in this league saw Farr Hall route the Chem Grads, 34-6, as John Scheck dropped in 9 shots from the court. Meanwhile Fowler Hall took their second game in three attempts by edging the Archers, 30-26.

The Bears, led by the Lokay brothers, have rolled to three successive triumphs and are a virtual cinch to take the League D crown. Their latest win was over the Polecats 40-24.

Schedule:
TUESDAY, FEBRUARY 20
1 p.m. Farr Hall vs Fowler Hall
Bears vs Rascals
THURSDAY, FEBRUARY 22
1 p.m. Accidents vs Wolves



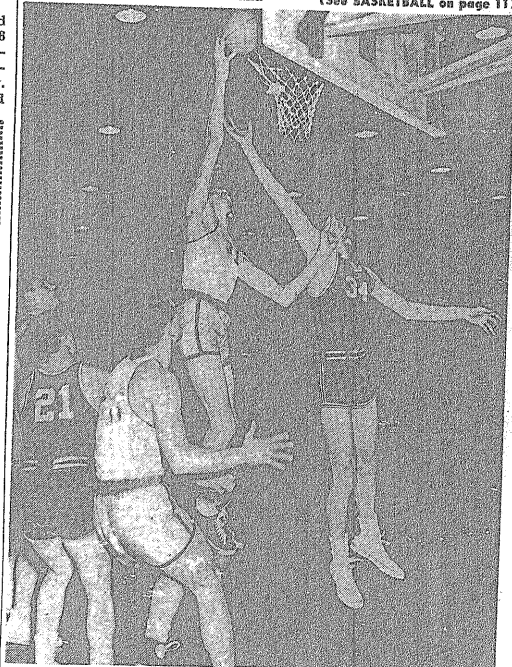
by Len Druian

Greetings! To all who have the time and patience enough to get past Slipstick, I welcome you. As usual, a new semester brings a new sports editor, and a new line of hogwash. Last semester's editor, Marks Levy, finally graduated and bequeathed me the delightful (?) job of writing this column. Marks, by the way, was in the NROTC and therefore draft exempt. I understand he left Monday for a position on one of Uncle Sam's new destroyers.

Orchids to Tech's basketball team for once again fooling the experts and coming up with a victory over a tough Chicago Teachers' College squad. Our boys took and held the lead almost from the start to the last few seconds of the fourth period. In the overtime period the Techawks picked up almost twice as many points as the teachers.

The only bad feature of the game was the accident which happened to John DeRoos. The latest word is that he has a chipped cheekbone. He was operated on yesterday and, although he won't be able to play the rest of this season, he should be in fine shape by fall.

The Honor I movies will be continued a week from Tuesday with a film on the 1950 World Series game between the New York Yankees and the Philadelphia Phillies. The place is the MC auditorium and the time is 1 p.m. You'd better come early or you'll find yourselves standing in the aisles.



JOHN DEROO DROPS ONE IN as Nelson of Omaha vainly tries to stop him. Fred Cassel of IIT and Fitch of Omaha look on.

Wrestlers beat U of C by 12 points

The Illinois Tech grapplers once again proved their spirit and ability by trouncing a strong University of Chicago team 22-10 at the end of last semester. Things looked bad for the matmen in the first few seconds of the first match when Richard Svec had to call a time out for a bloody nose. Nose or no nose, however, 123 pound Svec returned after a minute's rest to pin his opponent in 68 seconds.

Bill "Scissors" Staehle picked up some more points for Tech by outpointing his 130 lb. opponent 5-2. Jim Lingeman, 137 pounder, advanced Tech's score another three points by beating one of Chicago's best men 9-3. Co-captain Dean Levi added five more points to IIT's mounting score by throwing his 147 lb. opponent for a fall.

Sam Faravich, taking over the 157 lb. spot for Al Siede who broke his finger before the meet, battled

his way to a 6-5 decision. Clinching the meet for Tech, 167 lb. Ernie Honigman piled up 11 points to his opponent's five, bringing the team scores to Tech 22, Chicago 0.

Chicago's only wins came in the 175 lb. and heavyweight divisions. Pete Schutz and Bill Winkler, although fighting their hardest, lost their bouts to give Chicago its ten point consolation award.

February 23 the wrestlers will face a well manned and well coached Wright Junior College team at the Tech gym. Last year Wright trounced the Techawks, but the matmen are eager to avenge last year's defeat.

Swimmers look for fifth victory of season tomorrow

Swinging into action against Illinois Normal tomorrow, our tanksters are gunning for their fifth victory of the season. The prospects are bright for making a clean sweep of the remaining dual meets with Navy Pier and Lawrence.

A tragedy in Albion, Michigan, forced the cancellation of last Saturday's scheduled swim meet, as icy roads in Michigan caused an auto accident in which three Albion athletes lost their lives.

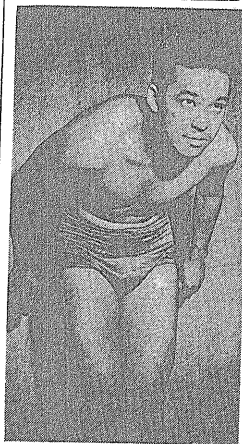
Since January 5, the mermen have engaged in three meets and came out on top in two of them, trouncing George Williams 60-14 and measuring the University of Wisconsin extension at Milwaukee to the tune of 49-26 and succumbing to De Pauw 47-28.

The score of the De Pauw meet indicates the importance of good second string men to give a team depth. The Greencastle squad rolled up a 15-point margin even though IIT won five events to their four.

The Techawks hit a peak against the "little" Badgers from Wisconsin's Milwaukee extension as Earl Takata set a new 200 yard backstroke standard of 2:30.6 and led off the 300 yard medley relay with a fine 1:04.6 effort in the backstroke leg to help Len Carlman and Ron Watson set a new school record (which they lowered at De Pauw).

In the same meet co-captain Ted Erikson split two races, winning the 220 but losing the 440 to Chernie of Wisconsin by a body length, in the good time of 5:30.8. The 60 yard sprint saw Ted Spath swim the best race of his career to lead Emil Valovic across the finish line, and giving IIT a fat eight points for that one event.

Tech's other co-captain, Len Carlman, who now has four straight wins in the breast stroke, won the 200 yard event with Zichterman at his heels in the George Williams' and Wisconsin meets. Our divers, Evans Brown and Dick Beatty, traded first places at



EARL TAKATA

George Williams and Wisconsin, but could only manage a third by Brown at De Pauw.

This semester will find the seals operating without the daily advice of coach John Makieliski and breast stroker Jerry Zichterman. Makieliski will guide the team at the meets but his new job in South Bend will prevent his attendance at the practice sessions.

The loss of Zichterman will seriously hinder the squad, especially in the invitational meets since he placed second at North Central last year in the 150 yard individual medley—an event held only in big meets.

Len Carlman new prexy of Honor I

Len Carlman, co-captain and star breast stroker of the swimming team, was elected president of Honor I for the spring semester. Other officers of the honorary athletic fraternity are Howie Gardner, vice-president and Ron Watson, secretary-treasurer.

Gardner is a forward on the basketball team and Watson is a free style swimmer on the water squad. These men will replace Bob Leiser, Dean Levi and Al Ashurst, formerly president, vice-president and secretary, respectively.

It was announced at the meeting that the 1950 world series movies will be shown free 1 p.m. Tuesday, February 27 in the MC auditorium. Highlights of these games between the New York Yankees and the Philadelphia Phillies will be well worth seeing. Final plans were made for the erection of the new outdoor athletic bulletin board. It will be erected as soon as the weather permits.

• BASKETBALL

(Continued from page 10)

After taking a 15-point lead in the first half, the Techawks lost their touch as Omaha got hot and tied the score. However, the Tech quintet came back to life and emerged with a 61-57 win.

Two losses followed this win streak as Tech traveled to De Pauw and Carroll. A poor shooting percentage was responsible for the first loss and the team seemed to fall apart against Carroll. The scores were 73-46 and 75-60 respectively.

Next Tuesday IIT will try to break Concordia's win streak at the Tech gym. As of this issue the Cougars have not lost a game in fourteen outings.

Fraternity Row

By Sonny Mann

Sex! Ah, what a wonderful subject and I have to talk about fraternity sports. I may as well pick up where I left off last semester, up to my ears in an Interfraternity basketball tourney.

However, before I become a statistician and another George Gallup, I'd like to release the final standings of last semester's sports activities. In football, Alpha Sigma Phi won the IF title by beating Delta Tau Delta 6-0 in the season's windup. The Daedalian and the Alpha Sigs still have to meet in order to determine the IF tennis champs. The Deltas walked off with the golf trophy as the prize for their efforts.

Basketball finds last year's defending champs, Theta Xi, still hugging the lead in League A with four wins and no losses. Alpha Sigma Phi is fighting off an upsurging Daedalian team for the League B lead. Both teams have a 2-0 record.

Theta Xi has practically the same team as last year minus Bill Grines, who graduated, and should be the team to beat. But then again, I'm only a reporter and not George Gallup.

Rifle team practices for important meets

After enjoying a four-week between-semesters layoff, the IIT riflemen are back on the shooting range practicing for the Second Annual Illinois Invitational Rifle Match. This is one of the two biggest events on the sharpshooters' calendar. Last year they placed ninth out of a 13 team field.

The other important event is the annual NRA Intercollegiate Rifle Match. Although the Techawks were unable to participate last year, they came in 30th in a 74 team field two years ago. This was very good considering that it was their first shoulder-to-shoulder match.

Postal matches will be resumed about the beginning of March. Last semester the squad won 11 out of 19 postal meets. They also met and defeated both the University of Chicago and Northwestern University in shoulder-to-shoulder competition. The NU

meet was held January 12 on the Tech range. The final score was IIT—1,379, NU—1,368.

Henry Henriksen, team captain, announced plans for a meeting in the near future. He is particularly interested in recruiting freshmen and sophomores to full places on the team that will be vacated by graduating seniors. Henriksen stated that seven of the present ten team members will graduate in June.

The entire rifle club will meet tonight on the range. An election for club president will be held and plans for a club social will be discussed.

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News in Brief

Dr. George Scatchard, professor of chemistry at MIT, will lecture before a tri-chapter Sigma Xi meeting consisting of Illinois Tech, the Chicago colleges of the University of Illinois, and the University of Chicago.

The subject is to be "Molecular Interactions in Protein Solutions," and will be given Wednesday, 8 p.m., in 115CB. Admission is free. Tech students are invited to attend.

Late registrants may obtain their ITSA student identification cards at the ITSA office, second floor of the Student Union, next Tuesday and Thursday from 12 to 2 p.m., Don Lynch, ITSA president, announced this week. Students are required to present their tuition receipts when they receive their identification cards.

J. J. Ahern, head of the fire protection engineering department, will be the speaker at the Fire Protection Engineering Society smoker, Wednesday, 7 p.m., in the SU auditorium. Professor Ahern will talk on job opportunities for fire protection engineers as civilians and as members of the armed forces.

Semi-dependent and dependent organizations requesting ITSA funds for the coming semester

must present their budget for approval next week, Bill Comis, ITSA treasurer, announced today. Previous budgets, books, and voucher register must be presented with the new budget at the ITSA office between 1 and 2 p.m. Monday through Friday.

Rough Castings, all-male burlesque group, is seeking members for its band to perform during the Junior Week production. Anyone interested in participating in the organization or the band should come to the SU auditorium, Tuesday at 5.

A tennis meeting will be held in the gym office Tuesday at 1 p.m. for the purpose of signing up varsity candidates. Indoor practice in the gym will begin February 24 according to Coach George Jennings and Bill Mattern, team captain.

The Israel Club of IIT will welcome incoming students at an Oneg Shabbat to be held Friday, 7:30 p.m., at the home of Beverly Asch, 3349 W. Division street. Everyone is invited to attend this informal get-together which, spokesmen say, is sure to be enjoyed by all.

ARF opens radiographic laboratory

After converting an abandoned garage into a modern gamma ray radiographic laboratory, scientists at Armour Research Foundation of Illinois Institute of Technology can take X-ray pictures through eight inches of solid steel.

A radioactive source shielded by 16-30 inches of concrete emits 65 billion gamma rays per second and has a penetration power similar to 1.8 grams of radium which sells for about \$20,000 per gram.

An equivalent amount of conventional X-ray equipment might cost as much as \$100,000, Dr. Richard C. Humphreys, assistant chairman of the Foundation's physics department, explained.

"With this source, we can detect hidden flaws in metal castings, welds, soldered joints, and also study crystals sensitive to radiation," Dr. Humphreys said.

When not in use, the source is lowered by remote control into a grease pit which contains a lead safe with six-inch walls. In operation, the source is viewed with a periscope from behind a protective wall. Every precaution has been taken to protect staff members from dangerous radioactive rays.



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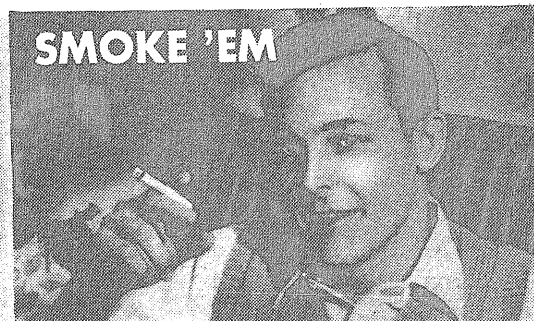
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