

ANOTHER ONE of those incidents occurred last week that doesn't speak too well for the consideration some people have for others. The entire stock of records, most of them newly purchased, were taken from the juke box in the student union lounge. The total loss of about 12 dollars doesn't come near to telling the enjoyment realized by numerous students which will be lost. Undoubtedly the ITSA will provide enough funds to replace the loss so that the juke box may again be enjoyed, but the fact that someone could be so thoughtless as to carry petty thievery this far is an eye-opener.

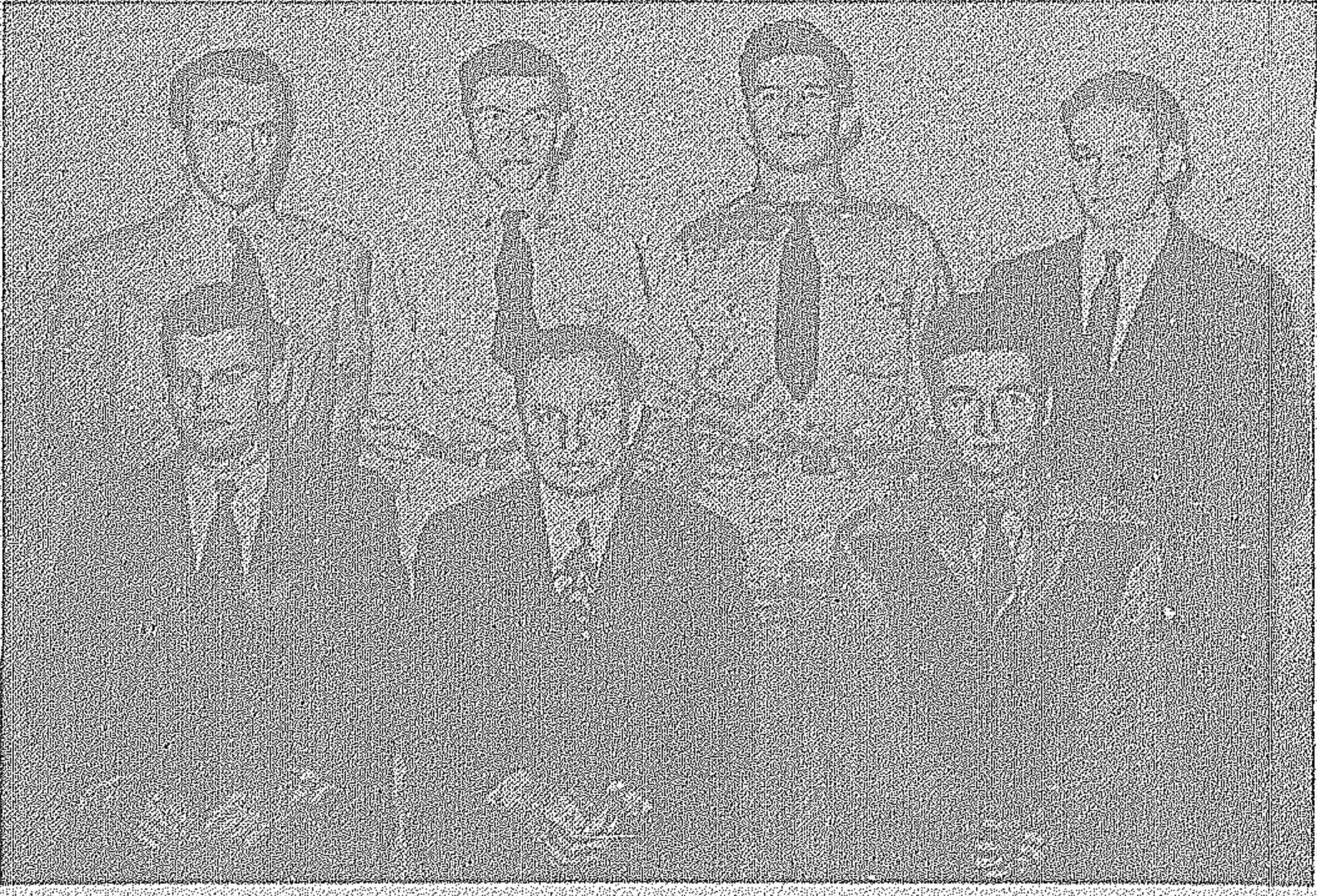
THE PRESENT 4B senior class officers have again demonstrated their aggressiveness. They have already begun plans for a dance to be held in the fall. Preliminary plans indicate that the affair will be a novel one. With the cooperation of the students it should prove to be another success on the string of this class.

THE REGISTRAR'S office should be complimented on getting the final exam schedule out so early this term. This should enable everyone to have all conflicts ironed out and all plans completed before the fateful days roll around.

AN INDICATION of the transition period that IIT is going through (See AS I SEE IT on page 4)

IIT Establishes New Department

Tau Beta Pledges



HONOR STUDENTS—Pledged to Tau Beta Pi in the Junior Week ceremony were the above men. Front—Robert Evans, Dr. Roland Budenholzer, Robert Boyar. Back—Robert Asire, Charles Hatstat, James Woodling, Grant Medin. Also included were Dr. Lewis T. Rader and Leo Schmidt.

Dr. Otto Zmeskal to Head New Metallurgy Department This Fall

Dr. Grinter Also Announces Appointment of Two Department Heads, Two Full Professors, Two Assistant Professors, Three Instructors

The establishment of a new department at Illinois Institute of Technology, and the appointment of two department heads, two full professors, two associate professors, two assistant professors, and three instructors has been announced for this fall by Dr. L. E. Grinter, vice-president of the Institute.

Announce Freshman Scholarship Awards

Fifteen winners in the freshman scholarship examinations have been announced by Henry T. Heald, president of Illinois Tech.

Each award, based on competitive examinations, provides free tuition for the first two semesters in college, valued at \$480.

Out of 132 contestants the following winners from the Chicago area are: James N. Keith, 192 Pick avenue, Elmhurst; Robert E. Parker, 4417 N. Meade avenue; Conrad J. Swanson, 1056 N. LaVerne avenue; William W. Widule, 10605 S. Leavitt street; Richard E. Durand, 4153 N. Ashland avenue; Floyd M. Gardner, 5145 N. Ridgeway avenue; David Miller, 1328 S. Kedvale avenue; Robert A. Paluchowski, 3335 W. Sixty-second place; Carl Petersen, 5641 S.

(See ANNOUNCE on page 6)

The new department, that of metallurgy which had previously been a division of chemical engineering, will be headed by Dr. Otto Zmeskal, a graduate of Illinois Tech, who had previously been on the staff as an assistant professor in metallurgy in 1941. He is at present director of research for the Universal-Cyclops Steel Corporation.

Dr. John H. Rushton, at present chairman of the department of chemical engineering at the University of Virginia, will succeed Prof. Harry McCormack as director of the chemical engineering curriculum at Illinois Tech. Prof. McCormack retires from the directorship after forty-two years on the Institute faculty. Dr. Rushton has a PhD degree from the University of Pennsylvania, with which institution he was associated on war research as director of the oxygen research laboratory.

Another man returning to the staff of Illinois Tech after an absence of six years is Dr. William A. Pearl, who, in the interim has been director of research and engineering, and production manager of the Whiting Corporation, Harvey, Ill. Formerly a professor in the department of mechanical engineering, Dr. Pearl rejoins the staff as full professor to direct the work in machine design.

A new professor in mechanics, who will direct the work in photo-elasticity, is Dr. Max Frocht. He had previously been a professor of mechanics at Carnegie Institute of Technology. Dr. Frocht is an author (See OTTO ZMESKAL on page 5)

IIT Mourns Passing Away of Dr. Mangold, Mech. Professor

Professor John Frederic Mangold, of the mechanics department, passed away at his home Sunday, June 2, of a heart attack. This marked the end to more than a quarter century of service to this institution by one of its best liked professors.

Vets Lay Summer Plans at Meeting

The ITV held its final meeting of the term last Friday. All business pertinent to keeping the organization alive during the summer session was approved by unanimous vote.

The club will not be active during the summer, but during the vacation, the executive committee will work on a plan for the club which will change it into more of a social organization, at the same time retaining all of its services to vets.

A motion for a school dance, sponsored by the vets in October, was passed unanimously. The members appointed to the dance committee are Al Bruckner, Ben Sutton, and Rocky Sprague.

Two other committees were named after their formation and were approved by the members. One was a committee to investigate conditions in the bookstore and report all possible improvements. This committee consists of Richard Lewandowski, Bud Long, and John Spix. The other committee, made up of Burnham Peters, T. Russel, and Rocky Sprague, was instructed to act in the vets' behalf in straightening out registration problems.

Paul Hermann on Leave Of Absence for Summer

Paul "Bud" Hermann, staff member of the IIT News Bureau and coach of the tennis team, left Illinois Tech last Friday on a three months leave of absence.

"Bud" came to IIT in March 1945 and has had a major part in many school activities since then. He coached the tennis team which won eight out of eleven meets this spring, bowing only to powerful teams from the University of Chicago, Kalamazoo College and Marquette University. Among his duties at the News Bureau, was that of teaching embryo reporters the elements of journalism.

During his leave Bud plans to study at Northwestern University. He will return to IIT next September.

Ten Initiated To Tau Beta Pi

Eight Undergrads, Two Faculty Are Selected

Ten men were formally initiated into Tau Beta Pi, national engineering honorary, at a ceremony held last night in the East Dining Room. The men were pledged during Junior Week as part of the concert presented by the music clubs.

Two of the ten are members of the faculty while the remainder are undergraduates. Those undergraduates initiated were: Donald Asire, Robert Boyar, Robert Evans, Clifford Evanson, Charles Hatstat, Grant Medin, Leo Schmidt, and James Woodling. Dr. Roland A. Budenholzer and Dr. Louis T. Rader were the faculty members elected.

Asire, a sixth term ME, has an average of 2.71. He is a member of Pi Tau Sigma and Tau Omega. A sixth term CHE, Medin has maintained a 2.79 average. Phi Lambda Epsilon, Alpha Chi Sigma, Delta Tau Delta, ACS, and AIChE are his activities. He is treasurer of the Deltas, president of ACS, secretary of AIChE and was sophomore class secretary.

A 2.51 average has been upheld through six terms by Leo Schmidt. Winner of the Pi Tau Sigma sophomore award last term, he belongs to Triangle fraternity. He was freshman class president and sophomore social chairman and has had two scholarships.

A member of Pi Tau Sigma, Triangle, and ITVets, Robert Boyar is an ME in his seventh term. He was recently elected president of the ASME and has an average of 2.25.

Robert Evans, a seventh term ME, has an average of 2.44. A member of Pi Tau Sigma, he is a veteran and is married.

Also with an average of 2.44, Clifford Evanson is an eighth term mechanical engineer. He has taken all of his college work in night school at IIT and is working as a consulting engineer. He is a member of SAE and ASME.

Charles Hatstat is president of Eta Kappa Nu, and treasurer of Pi Delta Epsilon, sports editor on *Technology News*, co-editor of the *Integral*, ITSA vice-president, and was a member of the boxing team. His average is 2.1 for seven terms of electrical engineering.

President of Pi Tau Sigma, president of the boxing team. His average is 2.1 for seven terms of electrical engineering. (See TEN INITIATED on page 4)

Dr. Mangold came to IIT (then Armour) in 1919 and had been in the mechanics department ever since. Before this he had worked as a civil engineer in a railroad construction job in Mexico. He also worked in drainage, bridge, and highway construction jobs.

With this background of field work he then turned to the scholastic field. Before coming to IIT he taught at Grinnell College, South Dakota; and the South Dakota School of Mines, Rapid City, S. D.

Dr. Mangold received a BS from Cornell College; a BE and a CE from the State University of Iowa. He was an associate professor of Mechanics at the time of his death. At one time he was also a faculty sponsor of the rifle team. He was also a faculty member of Pi Kappa Phi.

Dr. Mangold was also a man of letters. He was the author of a textbook "Practical Mechanics of Motion" and co-author of another "Practical Mechanics of Strength of Materials."

The entire school mourns his death and the loss of an understanding instructor and a likeable faculty member.

Harris to Leave For Notre Dame

Professor C. O. Harris, of the mechanics department, will leave IIT at the end of this term. Dr. Harris will go to Notre Dame as chairman of the Engineering and Mechanics department. Although Dr. Harris will not start teaching at Notre Dame until September, he will move to South Bend as soon as this term closes.

During his first two years in college, Dr. Harris attended the James Millikin University. He then transferred to the University of Illinois where he received his bachelor's and master's degrees.

Dr. Harris came to IIT in 1943 and has been teaching here since with only a short interruption in 1940. In 1940 Dr. Harris attended the University of Michigan, receiving his doctor's degree there.

Dr. D. R. Mathews Speaks At Memorial Day Services

Dr. D. Roy Mathews, professor of history, was the featured speaker at the annual Memorial Day Services sponsored by the United Confederate Veterans on May 30th at Oakwoods Cemetery.

The services, which were held at the Confederate Monument, honored the six thousand confederate soldiers and sailors who died at Camp Douglas during the Civil War. The topic of Dr. Mathews' address was "War Dean, a Challenge to Us All."

Rho Epsilon Transmitter Operation Again Resumed with Five Ham Radio Operators

Rho Epsilon this semester is operating its transmitter for the first time since before the war, when the government restricted amateur radios.

Before the war, the Rho Epsilon transmitter was one of the most interesting features of the Illinois Tech electrical engineering departments. It contacted many points around the world.

Today, with five licensed ham radio operators, Arnold Bornstein, Paul Range, Don Asire, Lloyd Deigh, and Jim Brophy, the Rho Epsilon fraternity is rapidly re-establishing itself.

The present transmitter which is an integral part of the fraternity was built by Arnold Bornstein, Chandler Sammons, and Paul Range by this transmitter runs on between 400 and 600 watts, on either phone or Morse code.

At present, the transmitter is operating on the three frequencies opened by the government; they are the 75m phone band, the 80m band and the 10m band.

The transmitter has a VFO variable frequency extiter. The final amplifier is push-pull 150th's driven by push-pull 807's. For phone work the final amplifier is plate modulated by push-pull 811's.

The antennas are one-half wave (See RHO EPSILON on page 6)



HAM—Arnold Bornstein operates the transmitter recently put on the air by Rho Epsilon, radio fraternity. Operating on a 75 meter wavelength, members have contacted other radio amateurs throughout the nation.

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College Education And the Student

The primary reason for going to college, from the male standpoint, is to make a good living. Unless one has good connections, an education is usually necessary for the best positions; it is required for the professions. Of course, along with the acquisition of money, is the attached social prestige, especially in a society where position is determined by one's bank account. Thus, higher education is to many, the key opening the door to opportunity based on higher earnings.

A second reason for going to school is to mark time until one is sufficiently mature to step into a job, or as in the case of the opposite sex, until married. While waiting, one can acquire a surface polish that supposedly marks the educated person. This makes it so much easier to talk glibly about the latest plays and books.

A third reason is to acquire the background for a professional career such as management, engineering and so on. Here one can devote his entire time and effort towards a specific goal, to the exclusion of outside interests. This leads to a naive ignorance of matters not pertaining to the chosen field, and is illustrated by the narrow provincialism of many leaders in the professions. Recent events, however, such as the atomic bomb have blasted scientists into worldly affairs, but many of the professions are still living in the dream world of their own making.

Finally, there are those who go to college to acquire knowledge for its own sake intermingled with the previous stated reasons. This learning will be used to understand and to build the community. This quest for enlightenment combined with the concept of service towards the community can develop the students into truly educated citizens.

What part, then, is the col-

Man Of The Week

Haney, Head of Delta Tau Delta, Is Active in IF and IM Sports

This week's title of "Man of the Week" goes to John Haney, an eighth term mechanical engineering major, and NROTC battalion ensign.

Haney came to IIT in March '44 as a student in the V-12 program. He spent his first year at George Williams and in March, 1945 was transferred to the IIT campus.

He is a member of such varied organizations as Beta Omega Nu, the Newman Club, and Delta Tau Delta, social fraternity, of which he is President. He also belongs to ASME. He has been very active in IM and IF sports for several semesters.

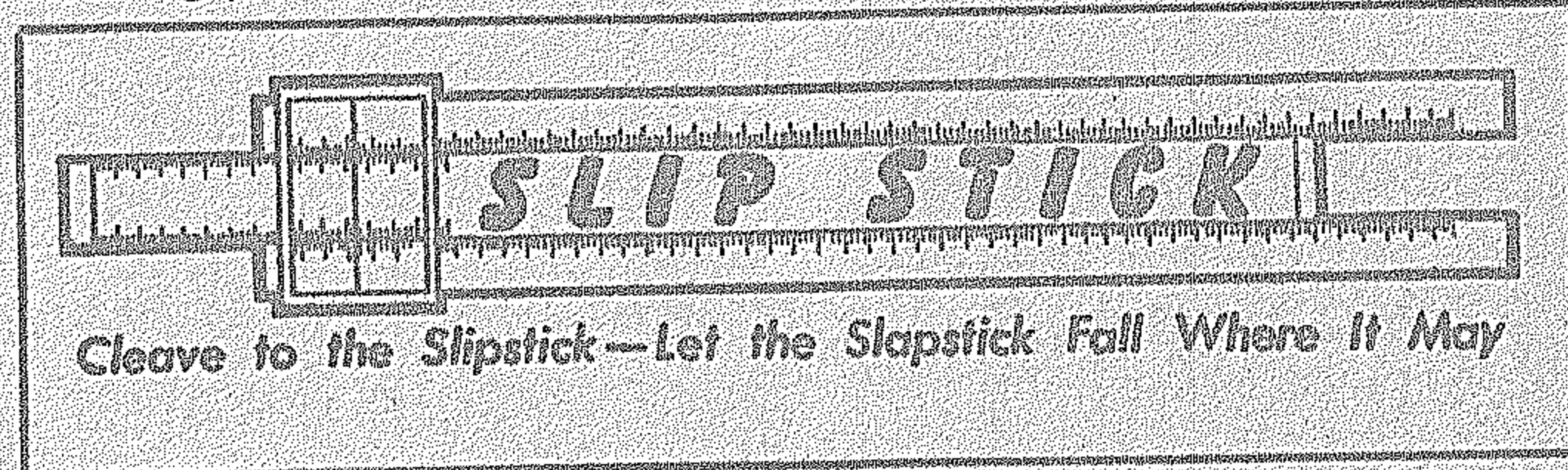
John hails from Tallmadge, Ohio, where he attended

Tallmadge, Ohio, where he attended

Tallmadge High. In high school he engaged in his favorite sports, football and swimming. He also became a member of the National Honor Society. During his last year in high school John worked for the Herman Machine and Tool Co. and the Albrecht Grocery Co.

Upon graduation this June, Haney will receive an ensign's commission in the Navy and he will be on active duty for one year. After leaving the service John plans to take a master's degree in economics at some eastern college. He also plans to indulge in his other hobby, traveling.

NORBERT GLASSER



Luscious gal: "I finally consulted the doctor about this craving I have for kisses every time I take half a dozen drinks."
Second Ditto: "It's about time! What did he give you?"
"A dozen drinks."

—IIT—
"All right, out with it," snapped the skipper, "If you can't say it, sing it."

The sailor took a deep breath and sang: "Should auld acquaintance be forgot and never brought to mind, The bosun's mate fell overboard; he's half a mile behind."

—IIT—
"Who you shoving?"
"I dunno. What's your name?"

—IIT—
ChE: "Can you dig me up a date for tomorrow night?"
ME: "Sure, but wouldn't you rather have a live one?"

—IIT—
Co-ed: "That ChE you met the other night is here."

Second Co-ed: "Just tell that Paw-Knee Indian that he hasn't any reservation on me."

—IIT—
A TREE
Of all the things that I could be—
I had to be a lousy tree.
A tree that stands out in the street
With little doggies at my feet.
Nothing else to be, alas,
But a comfort station in the grass.
I lift my leafy arms to pray
"Get away little doggie, get away!"

A nest of robins I must wear,
And what they do gets in my hair.
Of all the things that I could be,
I had to be a &!*fi—?!" tree!

—IIT—
An engineer, who had a bottle of Scotch on his hip, slipped on the icy pavement and fell. On rising, he felt something wet running down his leg.
"I hope it's blood," he said.

—IIT—
"You old drunken beast—if I were in your condition, I'd shoot myself!"

"Lady, if you wash in my condition, you'd mish yourself."

—IIT—
Guy: "Since I met you I can't sleep, I can't eat, I can't drink."
Gal (cooly): "Why not?"
Guy: "I'm broke."

lege going to play towards channeling selfish, personal interests towards a broader, more universal outlook? It is the duty of the school to develop a well-balanced personality, not merely to teach a profession. Lately, there has been a noted tendency towards such an enlargement of curriculum. But this policy can fail if the student body is indifferent. There

"Oh Mummy," said the little girl, "look at that funny man across the street."

"What's he doing?"
"He's sitting on the sidewalk talking to a banana skin."

—IIT—
EE: "Grab the end of that wire."
ME: "All right."
EE: "Feel anything?"
ME: "No."
EE: "Then don't touch the one next to it; it's got 5000 volts."

—IIT—
Joe: "You're getting corpulent."
Moe: "Corpulent, hell! I'm a lieutenant already."

—IIT—
"What's the idea of stopping in the middle of Jackson Park?" came the indignant voice from the back of the cab.

"Didn't I hear the young lady holler 'stop'?" asked the taxi driver.
"Get on with it. She wasn't talking to you."

—IIT—
Boring ChE: "You know, I'm like that. I always throw myself into any job I undertake."

Pretty girl: "How nice; why don't you dig a well?"

—IIT—
The one who thinks our jokes are poor,
Would straightway change his views,
Should he compare the jokes we print
And those that we don't use.

—IIT—
Mother to Dad, concerning daughter, age 16: "And I caught her putting Vitamin B in her lipstick to pep the boys up."

—IIT—
The Queen Bee is a hardy soul—
She thumbs her nose at birth control;
Which is the reason, beyond a doubt;
There are so many sons of bees about.



IT DIGS UP THE DIRT

"I've failed again!"—and I don't mean Steamshovel, I mean a test. Isn't it amazing how often you hear this phrase repeated in the cafeteria, lounge and classrooms? It seems that professors are being extra generous with E's this term or is it that the students have been letting the weather affect their beavering? You know what Tennyson said fellows, but don't forget that studying comes before spring and love and stuff like that. Of course there may be some truth in the statement that the man who is indeed wise in the ways of the world, Al Kukral, made when he said, "I'll not let studies interfere with my college education."

Collegiate World

Dimethyl-Gloxim was the honored guest at the Sophomore Hop at MIT held May 25. "Dimethyl-Glo" is a drunken Indian Chief of the Eager-Beaver tribe. Although some of the history of DG is vague, the publicity committee of the class explains his connection with the dance in the following manner: DG lived on this site 1000 years ago and was contacted at a spiritualistic meeting. When he came back, he was disappointed at the lack of school spirit at Tech and so the Soph Hop enters to pleasantly surprise him. DG was on hand to watch the festivities.

The Chicago Maroon announced that Radio Midway resumed broadcasting this week, covering a few of the girls' dormitories; Foster, Kelly, Green, Blake, and Beecher. A campus wide hook-up will be completed by the end of this quarter, according to Radio Midway officials.

The seniors at Indiana U have been taking it easy while every one else beavers. However on June 15 they will start their traditional Tree Planting and Peace Pipe ceremonies. The Peace Pipe ceremony was originated as a public "burying of the hatchet" between juniors and seniors. The class tree has already been planted but "it probably won't grow" until it's officially dedicated on June 15 according to several "BMOC's".

Southern Illinois Normal U. at Carbondale, Ill. now can brag about its "War Bride". One of the male students, James Leslie, from Cairo, met his wife Shirley Gee at a dance in Leeds. They were married a few months later, and then like other pilots Jim went over to France, and then back to the states and was discharged. Luckily Shirley was on the first ship bringing brides to America.

Girls are being taught to shoot at Alabama Polytechnic. Sgt. Cullon of the ROTC department is teaching the girls the fine points in manipulation of rifles. When the girls have mastered the art, they will fire in competition with a team of ROTC men.

Chicago U like IIT, has a traditional beard growing contest—only theirs is limited to a mustache. The contestants reported to the Reynold's Club Barber Shop's head, Elmer Bradford clean shaven and now they are free to try to get the silver cup complete with mustache guard. They will work for 15 days to raise a handle bar or any other type of mustache.

From Bradley Tech comes the following item: headed "Thoughts Wander In Logic Class."

Wonderful one, wonderful one, where in the world can my lover be... I have come down from downtown to the plateau is level surface which is elevated... being elevated is relatively higher than other things, such as teapots, spoons and hats. Hats of course vary with individual, times, and economic circumstances. Dire financial conditions often lead people to take to communism.

LOUIS L. FISHER

HOPE IVERSON

Speaking of education Celia Berteau has been bringing different types of puzzles to school to help determine what degree of education Myrna Lokay has reached. 1st grade was putting together a hodgepodge of pieces to form a T; 2nd grade was making a star out of the same; 3rd grade was a killer, so Myrna failed, and it took six ME's over a half hour to form a pyramid out of four blocks; 4th grade was so tough everyone failed. The question is, how did they ever reach college?

After Dr. Higgins gave a lengthy discourse on how to judge a gentleman's character by the tie he wears, he was seen the following day in the lunchroom lacking a cravat. If we had seen the pyramids we could say we had seen everything, because seeing Dr. Higgins without a tie is like seeing Coach Stenger participating in his own exercise.

Dick Mies has been trying hopelessly to meet a certain young lady in his neighborhood, who works at IIT. If he really wants her name, number and other interesting data, he should send the tops of three Greyhound Buses to yours truly and we will print the desired information.

Last week, Sonny Weissman needed the help of one of his proteges to tie his shoe. This may seem insignificant, but Sonny said "I can't bend over because of a charley horse." We just think he is getting along in years and wants to attribute those creaks and groans to his daily workout. But that's all right Sonny, you can't be 28 years old all your life.

We knew that the month of June was the month of brides, but we didn't know that the 29th of June held any special significance. However some people must think so for at least five Techawks are getting married that day. (Perhaps it's because that is the first Saturday after school is out). Anyway, Myrna Lokay, Betty Jordan, Bob Loomis, Bill Charlton and Henry Camp are being married then. I don't know the whole story but it sounds like fun to me! Anyway, they have our sincere best wishes.

The band made their long awaited trip to Pontiac last week and it certainly was a weekend of action. With two concerts and a dance to play, the fellows still found time for that ever entertaining sport— I'll give you three guesses—That's right you guessed it! Some fellows such as Al Bordon and friends didn't do so well at the local pub but Ken Holz and Bob Campbell did a little better, except that Bob's date kept saying "This is the first time I have ever been 'picked-up' on a street corner." But after Bob assured her that it was done in the best of circles, she had no objections. Bob even had a good time, he said.

EVERYBODY'S BUDDY

the WOMAN'S angle

By CAROL MOSES

The time of year has come when one can't decide whether to wish that the days passed more slowly so that finals don't arrive too soon, or to be glad that they are fitting so fast so that all will be over with (including another chance to pass that chem course).

At any rate the lure of the open fields is calling, and Dr. Hedrick's botany class has at last cornered that individual into taking them on a field trip—into the wild, dangerous wastelands of Garfield Park.

There ought to be an unwritten law whereby women entering the locker room just to the right of the entrance to the boiler room in Main should give out with a "Woman in the Room" cry, or at least knock loudly before entering, to prevent mutual embarrassment, especially of those poor souls who use said room to change their togs in.

There's a darn cute program on the radio Saturday nites at 8 p.m.—it's "Leave it to the Girls", and features Paula Stone, MC, and five glamor girls who together with a male guest, hash out problems sent in by listeners, both men and women. The Man has his say on every question, and at the end of the program has a chance to "talk back." Sometimes things get so hot that fur flies. Typical problem (sent in by a man)—"Should I tell my fiancee that I wear lifts in my shoes to make me as tall as she is?"

Here's a fitting sentiment, found in Byrd Lee's column in the Alabama Polytechnic Institute's "Plainsman":

Coed's Lament

My hair will curl when it is set
My ears and neck are clean.
My figure has been whistled at.
And I'm over eighteen.

I use Ipana every day.
My father has no gun.
With three men to every girl,
You'd think I'd find just one.

So won't somebody let me know
Why I'm here at home
On Saturday nite at half past ten
Writing this gosh darn pome?
—Widow

Hearing about all these honorary fraternities makes me wonder whether an honorary sorority taking in women students of all fields couldn't be founded here. Most colleges have them, why not ours?

Journalists Honored



PLEDGES—These student members of the *Technology News* staff will be initiated into Pi Delta Epsilon, journalism honorary, tomorrow evening. Left to right—Allan Kukral, Carol Moses, Hubert Helffer, Howard Baum and Edward Arends.

Dr. W. C. Krathwohl Discusses Effects of Reading Abilities

The Elementary Principals Journal recently printed an article "The Importance of Acquiring Reading Skills" written by William C. Krathwohl, Director of Tests at the Institute for Psychological Services of the Illinois Institute of Technology.

In his article Dr. Krathwohl states that a study of the Army and Navy tests for specialized abilities has shown that this age demands of us the ability to read with understanding and speed, and that in this subject too there is something wrong with the instruction our children receive.

Evidence of the inadequate reading abilities of college students and its effects on the success of students in an engineering college was seen in studies made of the results of orientation tests and grades made during the first year by a large sample of students at IIT.

The entire group of students taking an orientation examination was divided into quarters on the basis of scores on the Reading Comprehension Test, and the grades received by students in the lowest quartile of the test were compared with those in the highest quartile.

In the case of failing grades received by students of this group those in the lowest quartile received on an average three times as many failing grades (E's and D's) as those in the highest quartile. In the honor grades (A's and E's) almost the reverse ratios existed, with students in the highest quartile receiving three times as many honor grades as those in the lowest quartile.

Mr. Krathwohl points out that the low grades received by students in the lowest quartile was due not to low mentality but because of their poor reading ability they must spend nearly twice as much time in reading

their assignments and doing their homework, which is ordinarily set up to take up much of the good student's time.

Mr. Krathwohl believes that much of these poor reading habits and inadequate ability might be eliminated in the elementary schools. Emphasis on silent reading would increase the child's reading ability. He believes that testing the child's progress in reading is just as important as testing his progress in arithmetic.

Announce Mail Pickup And Delivery Schedule

A complete schedule for mail pickups and deliveries for the IIT post-office was published last week by Mrs. J. Hoshour, postmistress.

Mail to be sent to the post office for any particular pickup should be in the post office twenty minutes before the scheduled pick-up time so that it may be prepared for pick up, according to Mrs. Hoshour.

Deliveries are made twice daily to the post office, at 8:45 a.m. and again at 2:15 p.m. Registered mail arrives at 11:15 a.m. and also 2 p.m.

Registered mail pickup is at 11 a.m. and 2:20 p.m. Air mail is picked up three times daily at 2 p.m., 3:30 p.m. and 5 p.m.

Campus COMMENTS

LETTER OF THE WEEK—VETS STILL MOAN

The Veteran's Club objects to the editorial of last week, "As I See IT," which, it seems portrays the fact that the editor is very badly informed, or perhaps this editorial was written in a rush to meet the deadline without investigating facts about furnishing guides for gold-star families.

Illinois Tech Vets

Did any of you vets attend the American Veterans Committee meeting last Tuesday? How many of you even know what the organization is? The AVC is an organization of WW-2 vets founded about three years ago and has been growing by leaps and bounds (and even faster). A large number of the colleges and universities of the U.S. have campus chapters.

The main idea behind the AVC seems to be to help the veteran re-establish himself in civilian life rather than have congress hand him the world on a silver platter.

Anyway, the AVC had a very good and effective line-up of speakers at their meeting, as well as a large and appreciative audience. From here it looks as though it's going to be quite a battle even if they do win Gardner in the end. The army seems determined to hold on to it.

The army claimed they needed the space because they had to move from the Civic Opera building, but when the AVC investigated they learned that the army had not even asked to have their lease renewed. It looks as if it might develop into the same old army story (We have it and we'll keep it, come hell or high water.)

Another interesting bill has been brought before congress. This one, so far known only as HR6067, provides for increased subsistence for students under the GI bill. The bill provides for payment of \$75 per month to a single vet and \$100 per month for a married vet plus \$15 for the first child and \$10 for each additional child.

All men who want to get this bill enacted should write their congressmen now. This bill has to go through a vets' committee in the house which is headed by John Rankin. His past record has been one of autocratic rule of the committee, and delay on

In the first place, the statement is made, in the editorial, that the vets club . . . "claims such a large percentage of the student body." This is definitely misinformation as there are approximately 1100 vets in day school alone, while our vets club boasts the grand total of 60 members. This, in our opinion, is far from a large percentage of the student body.

The editor overlooks the fact that the veterans club is an embryo organization, not yet functioning as a closely-knit association. The other organizations on campus have had years upon years to establish customs and traditions, while the vets club is just a youngster among many mature organizations.

The editor also overlooks the fact or neglected to inform himself of the fact that a city-wide research problem is being undertaken by the vets club. This takes most of the veteran's "spare time." The "attitude" of the vets club has, up to the present time, been of the most cooperative nature, thus any "permeation" that might take place, we assure you, would be definitely for the good.

As a closing remark, we think it would be a very nice gesture on the part of the editor to go to Mr. A. Wright, on the second floor of the Student Union, and volunteer his services to escort the gold-star families around the campus on May 29, 1946.

Illinois Tech Vets. *

all vet legislation. It's going to take a lot of pressure to get the bill through. Another proposed bill (HR 4501) provides for terminal leave pay for enlisted men. Under it an enlisted man would receive pay for an after discharge furlough. The bill would provide retroactive payments of this money. If you're already discharged you'd get the money anyway.

If you are still having trouble with your subsistence checks and haven't filed a tracer with Mr. De Sylvester do so now. Most of the letters of eligibility that have been in Mr. Wright's office have been forwarded to the Veterans Administration. Those which have not are being (See ILLINOIS TECH VETS on page 4)

Know Your Honoraries

Alpha Chi Sigma Was Founded At University of Wisconsin

Alpha Chi Sigma, a national professional chemical fraternity, was founded in 1902 at the University of Wisconsin by a small group of chemistry students and has grown steadily ever since. It now has forty-six active chapters of which seventeen are professional chapters and fifteen are professional groups. It has a total membership of over 18,000. The local chapter has fourteen active members and ten pledges.

The objective of the fraternity is to bring together men in the chemical profession for a well balanced program of professional and social activities with a slight emphasis on professional. Before the war the fraternity sponsored many speakers from industry. One of the activities of the Illinois Tech chapter is a tutoring service for freshmen and sophomores in chemistry subjects.

The fraternity was voted the most well organized professional fraternity in the country at the biennial meeting of the Professional Inter-Fraternity Council. For many years, Alpha Chi Sigma has financed the triennial ACS award for the most outstanding work in pure chemistry by a young chemist. It is also a very active participant in the National Safety Council. Currently it is studying and discussing the problem of unionization of chemists.

One of the fraternity's salient points is that its activities do not end when you graduate. The Illinois Tech Chapter is rather unusual in having so many undergraduate members. At most schools it is comprised of graduates only. The professional groups and chapters are very active throughout the country.

Membership is by election. Graduates and students who have completed half of their sophomore year in chemistry or chemical engineering are eligible for membership.

EUGENE HILL

Fraternities & Sororities

SIGMA BETA THETA SORORITY

Sigma Beta Theta sorority held its informal initiation of Maristell Dixon and Lua Johnson at a picnic at the home of Wauneta Gorrell, Midlothian, Ill. The formal initiation will take place at the all-sorority June barbecue.

Maristell Dixon will act as hostess during the summer vacation at their Cedar Lake (Ind.) cottage.

Election of officers will be held at the July meeting.

ALPHA SIGMA PHI

Pledges and actives of Alpha Sigma Phi took to the wide open spaces Saturday, June 1. The occasion was the pledge sponsored picnic at Dunes State Park, Indiana. Even though the weather was not up to snuff, all who attended reported that the event was well worth the long trip to the Dunes. Hot dogs and beer was the main course of the day.

Informal initiation was held at Rollo Fischer's house in Elmhurst last Saturday evening, Sunday afternoon, the formal initiation was carried on at the Swedish Club of Chicago and six pledges became active members of the fraternity.

PHI BETA PI SORORITY

Phi Beta Pi sorority, inactive for several semesters, will initiate its pledges formally at the home of alumna Shirley Fink tomorrow eve-

ning. The pledges are: Gloria Dubin, Libby Gopan, June Lyons, Carol Moses, Luella Simon, and Reva Zlotnik. A pledge dinner was held last Wednesday at the Ranch restaurant following a rush period during which a tea was held at the home of Ramona Osherow and a luncheon was given at the Kungsholm.

The all-sorority summer formal will take the form of a dinner dance at Villa Venice June 28.

PI KAPPA PHI

The formal initiation of Douglas Benton, Wilbur Burkhart, Arthur Dammkoeler, Henry Gloodt Edward Hennessey, Dick Huber, Paul Kerby, and Eugene Schaelkopf into Pi Kappa Phi will take place this Sunday in the home of John and Bill Pottenger. After the initiation the new actives, together with the entire chapter will gather at the traditional initiation banquet.

Through the courtesy of five of the brothers who have recently taken the fatal step and hung their pins the Alpha Phi chapter of Pi Kappa Phi enjoyed an informal picnic party on the "Point" at Fifty-fifth Street last Wednesday. The brothers and their dates spent an evening of dancing, ping-pong, eating, and strolling along the lake.

Informal initiation of the pledges took place last Saturday evening at the home of Dick Eberhart. It is

being rumored that the pledges were not amused at the evening's entertainment.

TRIANGLE

Election of officers for the fall semester was held at the last meeting. The following men were elected: president, Bob Bachland; vice president, Bill Bloudek; secretary, Will Kedrov; treasurer, Ken Thompson; chapter editor, Marty Gabriel; corresponding secretary, Tony Glowacki; social chairman, Arnold Kust; and sports manager, Dick Lund.

The fraternity Senior Farewell will be held in conjunction with the Northwestern Chapter of Triangle at the Lake Shore Athletic Club Friday, June 14th at 9:00 p.m. The dance will be semi-formal.

A boat cruise is being planned for the early part of the summer. The arrangements are being handled by the social committee.

Plans are also being made for a thorough clean up of the fraternity house during the summer vacation in preparation for the fall semester.

PHI KAPPA SIGMA

Alpha Epsilon chapter of Phi Kappa Sigma Fraternity held a dinner and business meeting in the West Dining room in the Student Union last Monday night at 6:00 p.m.

Plans have been made for a party to be held at the Pavilion near 55th (See FRATERNITIES on page 4)

Baseball Squad Closes Season With 5-2 Loss to State Pen

Naval Armory Hands Techawks Two-hit Shutout for Worst Defeat of Spring Campaign

The Tech baseball squad wound up its season last week, dropping its last two games to Naval Armory and the team from the Indiana State Prison by scores of 16-0 and 5-2 respectively.

Four hurlers, Ken Adams, Danny O'Connell, Jim Railling and Dick White failed to silence the bats of the Naval Armory squad in Monday's fiasco. The Sailors collected sixteen hits and scored sixteen runs to hand the Techawks their worst defeat of the season. McCarthy, handling the mound chores for the Armory, pitched a two-hit shutout. Hank Pype and Jim Krebs were the lone hitters for Tech, each getting a single in the sixth.

First at bat, the Sailors teed off against starting pitcher Ken Adams and grouped four hits to send as many runs across the plate. Caught off balance, the Techmen never regained it, and in the fourth frame six more runs poured in as a result of five hits, a walk, a batter struck by a pitched ball, and an error at third. O'Connell faced eleven batters in that inning before Wiemken was thrown out at second to end the Sailors half of the stanza.

Third fatal inning, the fifth saw five more tallies by the Armory squad. O'Connell gave up four walks before being relieved by Jim Railling, and an error at the plate combined with three stolen bases finished the job.

IIT 2 PRISONERS 5

The Techmen traveled to Michigan City Saturday and set a victory in the laps of the outhit Indiana State Penitentiary team. Smith, hurling for the Prisoners, allowed seven hits, but scattered them effectively. Adams went the route for Tech and gave up six hits, also well scattered.

Two runs were scored by the Michigan City outfit in the hitless third inning. Adams had a bad time of it, facing seven men and walking three. A fourth was hit by a pitched ball. This batter, Lawrence, was hit twice in the course of two innings in two consecutive trips to the plate.

The Techmen scored in the first and again in the eighth. Jim Knowlton walked in the first and went to second on an error at short. Jim Sullivan followed it up with a single and Knowlton came home. Fran Krawczak got safely to first and Scofield walked to load the sacks. The setup fell through when Dick McKee sent a grounder down to the pitcher's box, forcing Sullivan out at home. Hank Pype hit one down the third base line and Scofield failed to beat the throw to second, retiring the side.

Reception for Seniors To Be at Heald's Home

President Henry T. Heald has announced that there will be a reception at his home for all graduating seniors next Sunday from 4 to 7 p.m. Dr. Heald's residence is at 4800 S. Kimbark Ave.

On the same day Dr. H. W. Ruopp, Chaplain of IIT will conduct an informal baccalaureate service for the senior class at the Central Church, 216 S. Michigan Blvd. at 11 a.m. Pres. Heald will also participate in the service. Dr. Ruopp has designated this Sunday as "Illinois Tech Sunday" at his church.

Basic Paces Alpha Sigs To Take IF Track Meet

Paced by Hamilton and Basic, Alpha Sigma Phi won four firsts, a second and a fourth to score twenty-four points and win the IF track meet. Triangle's team paced by Ken Turner scored twenty points to take second place. The Pi Kaps were third with thirteen.

Triangle won the relay for which a separate award was given.

The golf tournament will not be held this semester as announced last week but will be run within the first month of the fall semester.

Coach and Captain



A BREATHER—Coach Paul Hermann and No. 1 man Bob Hall rest between sets at Armour Square. Hall was elected captain of next year's tennis squad last week, the first of such elections to take place on the campus.

TEN INITIATED

(Continued from page 1)

dent of ASME, president of Alpha Phi Omega, vice-president of the senior class, treasurer of Pi Nu Epsilon, and member of Pi Kappa Phi are the accomplishments of James Woodling. He is an eighth term ME with an average of 2.1.

Dr. Budenholzer is associate professor of mechanical engineering. He attended New Mexico University for his BS. He received his master and doctor degrees at California Institute of Technology. At IIT since 1940, he is president of the Faculty Club and a member of Pi Tau Sigma, Sigma Xi, and Tau Kappa Epsilon.

Director of the EE department, Dr. Rader took his bachelor degree at the University of British Columbia. He also received his master and doctor degrees from California Institute of Technology.

The election of Evanson to Tau Beta Pi marks the second time in several years that a night school student has been chosen. A. H. Walters, also a student in night school, was selected last term.

FRATERNITIES

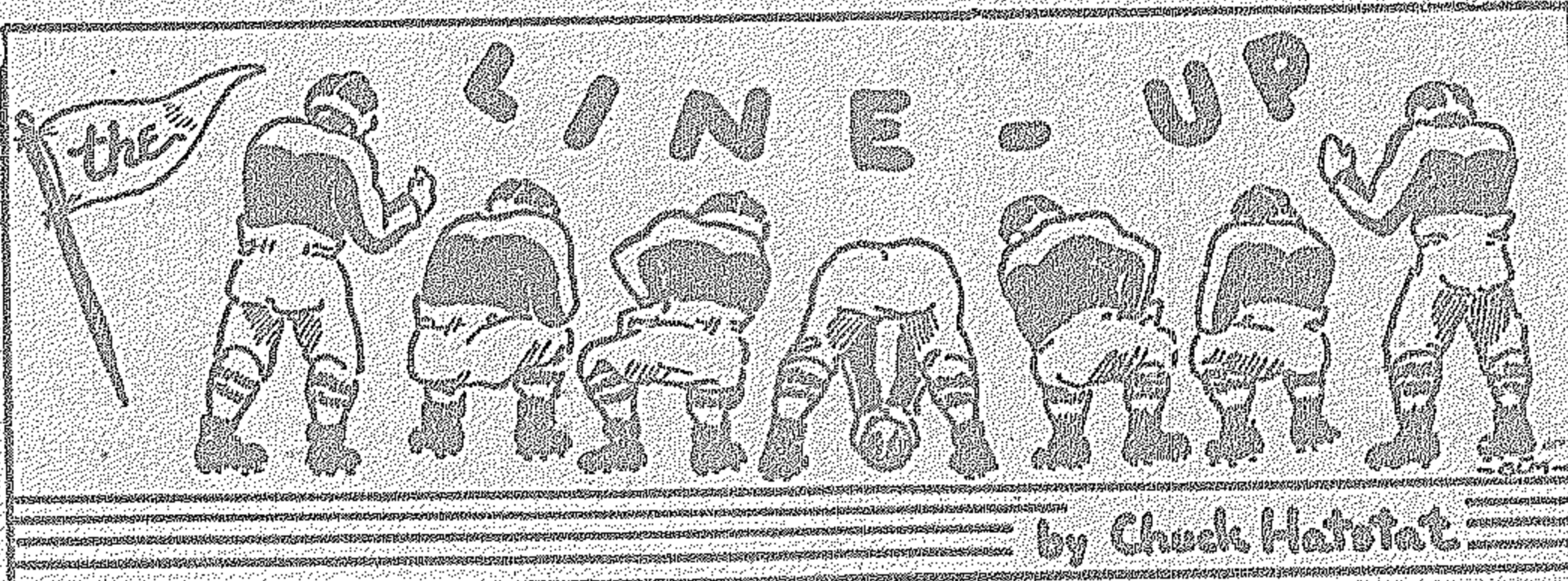
(Continued from page 3)

and lake front on June 18th.

In addition to enjoying the activities during Junior Week and the prom, eight Phi Kaps had the pleasure of meeting and acting as hosts to the families of the former students in whose honor Alumni Memorial Hall was dedicated.

KAPPA PHI DELTA SORORITY

The Kappa Phi Delta sorority will hold its monthly alumni-active meeting at a cottage in the Dunes of Indiana on Sunday, June 15. The day before, they will celebrate Father's Day by treating their dads to a small celebration. A joint meeting of actives and alumni will be held June 30.



Saturday's baseball game with the Indiana State Penitentiary marked the end of the spring athletic season. At the same time, the release of the list of letters awarded by the athletic department doubly emphasized the fact. The sports editor is out of a job until the fall term rolls around.

I'd like to take this opportunity to thank the men who covered the sports activities for me during the last two terms. Marv Larson reported on the intramural program until the softball and basketball tourneys tied him up completely in his capacity as intramural manager. Ed Arends, the assistant sports editor, did a good job on the intramural tourneys when Marv left, and in addition, covered the entire baseball season, working on Sundays to write the stories of the weekend games. Covering a variety of sports, Joe Ringhofer wrote everything from a marble tournament to swimming and track, in spite of carrying a load of 23 hours last term. Ken Thompson was assigned to the sports staff this semester, and has done an excellent job on interfraternity coverage. A willing and able staff, and I hope you'll be with the sports department next term.

Bob Hall, one of the three top tennis players on IIT history, goes to the National Intercollegiate which will start June 25. Hall had a bad start this year, coming to school directly from the armed forces, and filling the number one spot in his first match, with only two practice sessions in two years. His improvement since then enabled him to beat a Midwestern Conference Champion and the former champion of the state of Iowa in his last sets, winning high praise from both. A freshman, he has three years in which to make Techawk tennis history.

The intramural and interfraternity tourneys which came to a close during Junior Week were the most successful held in three years from the point of view of spirited competition. Shortages of men during the war forced the teams to limp along on whatever material was available. With the student enrollment way up, the various groups were allowed a choice in their team makeups, and it was an obvious improvement. There were no forfeitures in either department, a marked contrast to the tourneys held last fall. Next year's competition should hit an all time high with the touch football tourney, which has habitually drawn many entries.

Softball All-Stars Selected From Interfrat Competition

It has been a time honored custom to select an "All Star" team at the end of each sport season and believing that we should be no exception, the following players were selected from the interfraternity teams. The choices in many cases were most difficult and merit discussion.

AS I SEE IT

(Continued from page 1)

is the organization of a new department, metallurgy. This is only the beginning of further enlargement and expansion that will serve to make IIT a better and more versatile school.

THE DECISION of the ITVets organization to enlarge its activities to include social activities as well as to retain its position of aiding the veteran students is indeed a wise one. It appeared that for awhile the club was headed for the same obscurity that has overcome other campus organizations.

A PLAN is formulating whereby selected students would be allowed to go to veteran hospitals and tutor as part of the occupational therapy program. Basic courses such as college algebra, trig, physics, etc. could be taught. As concrete plans are laid, Technology News will carry the story.

We start with Lund of Triangle for short field. Here, there was no difficulty as Lund's speed, batting and all around playing ability make him a standout. At shortstop we weren't so fortunate. The opposition was just short of terrific but the job was awarded to Nordhouse of Theta Xi on the strength of his ground covering ability and batting punch. At first base, the task was a little easier. Although there were several good fielders or good hitters, only one had both attributes, Hamilton of Alpha Sigma Phi. Ebner of the Daedalians, a good catcher and long ball hitter, was a standout for that position.

We chose Melek for center field on his ground covering ability and long ball hitting. He was the only man to hit four homers. Eberhardt and Dini were the biggest problems; both were good hitters and fielders and a choice between them was almost impossible, so we flipped a coin, giving Dini of Triangle third base and moving Eberhardt of Pi Kappa Phi to second. Schultz of the Alpha Sigs and Brophy of the Pi Kaps filled out the outfield, rating the positions chiefly on their ground covering ability but being no slouches at the plate either.

The pitching duties were awarded to Johnson of the Pi Kaps and Shore of the Sammies.

It would be hard to leave the team as it without mentioning some of the men who were close so we give the following honorable mentions: Outfielders, Giles of the Daedalians and Berman of the Praetorians; infielders, Gloodt of Pi Kaps, and Czeropski of Alpha Sigma Phi; pitcher, Ken Turner of Triangle.

TECH TIME TABLE

All items appearing in Tech Time Table will be those which are scheduled with Dean White. No other items will be used.

- TUESDAY:
 - IVCF, 3 p.m. to 4 p.m.
 - 102C
 - Alpha Phi Omega 5 p.m. to 6 p.m.
 - 105C
- WEDNESDAY:
 - Pi Kappa Phi, 5 p.m. to 6 p.m.
 - 405M
- THURSDAY:
 - Pi Tau Sigma, 7 p.m. to 10 p.m.
 - Lounge
- FRIDAY:
 - AICHe, 11 a.m. to 12 m.
 - 305M
 - IRE, 11 a.m. to 12 m.
 - Auditorium
 - Alpha Phi Omega 7:30 p.m. to 9:00 p.m. East Dining Room (Formal Initiation)

Coach Bibb Looks To New Golf Season

Despite a rather dismal season during which the gold team failed to chalk up a victory, Coach "Sam" Bibb is looking forward to a more fruitful campaign next year. With but a few weeks to select a squad, and very little time to practice, the team displayed a great deal of ability on the fairways and greens.

Manager Robert Afton shouldered the brunt of the load in scheduling ten matches, several with schools of top flight golf competition. Dick Sieb and John Gailey led scoring for the Techawks along with Roger Sloan, recording 23 of the Techawks' 40 points.

The golfers ended their 1946 campaign with a match with Wayne University at Detroit during Junior Week. John Gailey scored three of the Scarlet and Gray's four points in the 20-4 defeat. Following is the list of the season's matches:

IIT 6 1/2	DeKalb 12 1/2
IIT 7 1/2	North Central 11 1/2
IIT 6	DeKalb 12
IIT 5 1/2	Bradley 7 1/2
IIT 4 1/2	North Central 15
IIT 6	Loyola 6 1/2
IIT 5 1/2	West Michigan 14 1/2
IIT 3 1/2	West Michigan 17 1/2
IIT 4	Wayne 20

Letters Awarded To Tech Athletes

Signalling the end of spring athletics, the announcement of letter awards was made last week by the Athletic Department.

In the two major sports, baseball and track, twenty individual major letters were awarded. Baseball drew eleven of these and the cinder squad rated nine. Five minor letters went to the diamond club and six were awarded the track men.

The tennis and golf squads, rated in the minor sports departments were awarded four major letters and eight minor awards. Four manager awards were included in the four sports. In addition, Marvin Larson and Edward Arends were awarded letters as intramural managers for the term.

BASEBALL — Major: Knowlton, Sullivan, Krawczak, Pype, Krebs, Swanson, McKee, Railling, O'Connell, Adams, Shelby (mgr.)

Minor: Scofield, Barr, Rutz, Padula, Bushelle

TRACK—Major: Hoffman, Lindahl, Lund, MacAdam, Malis, Sammons, Smith, Sutton, Vogel

Minor: Bronson (Joseph H.), Buelow, Gelb, Galbreath, Jenkins, Liebman

Managers: Underwood, Esser

TENNIS — Major: Hall, Ferguson, Bergstrom

Minor: Hill, Davis, Rubin

GOLF—Major: Afton (mgr.)

Minor: Gailey, Hoak, Orwick, Seib, Sloan

Bernard Weissman announced that all letter winners will be measured for sweaters in his office on Wednesday, between 11:00 a.m. and 1:00 p.m.

ILLINOIS TECH VETS

(Continued from page 3)

processed and will be sent out in the very near future.

Mr. Wright wishes to emphasize that PL 346 men do not need to notify any one if they intend to take a summer vacation. PL 16 men should notify Mr. De Sylvestre immediately if they are not going to summer school. If you haven't filed your 7-1950-A (authorizing payment by the Veterans Administration of more than \$500 per school year) better do it before you forget.

You men who want to get your insurance reinstated, go to the cashier's window first floor at 366 West Adams. Take along enough cash to pay the premium for two months.

ROCKY SPRAGUE

BETA OMEGA NU

Bob Bachlund was elected president of Beta Omega Nu. Other officers are, Vice-president, Bob Czeropski; Treasurer, Lou Phillips; Secretary, Dale Willman; Master at Arms, Glenn Restovsky.

June 11, 1946

ARF Reorganizes Wire Sound Recorder Activities

The reorganization of all magnetic wire sound recorder activities and the establishment of a Magnetic Recorder Division has been announced by Dr. Jesse E. Hobson, director of the Armour Research Foundation.

The Wire Recorder Development Corporation, which in the past has been in charge of the Foundation's commercial activities in connection with magnetic wire recording, has been dissolved. The new division will maintain its offices at the same location, 135 South LaSalle street, Chicago.

Headed by Carl L. Titus, former engineering advisor, the Magnetic Recorder Division will coordinate all sound recorder activities, including the Foundation's licensee technical service, research and engineering service, and licensing negotiations with manufacturers to produce Armour magnetic wire sound recorders.

The licensing of four additional companies has also been announced, bringing the total number of licensees to 30. These include the Garrard Engineering and Manufacturing Company, Ltd., of Swindon Wiltshire, England; Ateliers de Constructions Electriques de Charleroi, Charleroi, Belgium; Avery Sound Instrument Corporation, New York; and Magnicord, Incorporated, Chicago.

Garrard, precision engineers of phonograph motors, clocks, cameras, turntables and automatic record changing units, is expected to manufacture magnetic sound recorders for home, business, and entertainment use, as well as for use by the British army and navy.

The Belgian concern, Ateliers de Constructions Electriques de Charleroi, handles 60 per cent of that country's electronics work, including the manufacture of transformers, motors, switches, generators, con-

OTTO ZMESKAL

(Continued from page 1)
of many publications and has been directing war research.

Another staff member returning after an absence of four years is Alan Flanagan who will become associate professor of mechanical engineering, and director of shops. Professor Flanagan is receiving his Ph.D. in metallurgy from the University of California this year. Dr. William Ernest Bennett who is at present on the staff of Rice Institute will become new associate professor in the department of physics this fall. Dr. Bennett has specialized in the field of nuclear physics, and was connected with the atomic bomb project, both at the University of Minnesota, and Los Alamos.

Richard Clark Vogel joins the staff of the chemistry department as an assistant professor. He is at present on the staff of Harvard University where he is completing work for the doctorate. During the war he served as a special research assistant on government sponsored research.

A graduate of Illinois Tech who received his Master's degree in architecture in 1939, is James Speyer, who becomes assistant professor of architecture. Professor Speyer has recently been discharged from military service.

Another addition to the staff of the chemistry department is Dr. Peter M. Bernays. A Major in the Army's Chemical Warfare Branch, he has been on active duty since 1942, serving two years in the South Pacific.

In the department of mathematics two new instructors are Robert R. Bentley and Dr. Martinus Esser. Mr. Bentley served on the IIT staff as an instructor during the summer of 1941 and has since done research at the University of Chicago in the Institute of Meteorology and at Johns Hopkins in the Applied Physics laboratory. Dr. Esser has his Ph.D. from Northwestern University and has also studied at the Ecole Polytechnic in Paris, Mathematiques Speciales in Nice and Faculte D'Aix in Marseille.

densers, and tubes. Their initial applications will probably be in the field of units for incorporation in home radio receiver sets and commercial dictating devices.

Avery Sound Instrument Company is expected to apply magnetic sound recorders in various advertising uses. Best known for their precision work, Avery built parts for Pratt and Whitney Aircraft Division of United Aircraft Corporation and others during the war.

Magnicord, Incorporated, a new Chicago concern, has been organized to produce custom built recorders for use in various commercial fields.

The Wire Recorder has been developed in the Armour Research Foundation during the past several years. It was invented by an IIT student, Marvin Kamras, several years ago and has seen rapid growth, especially during the war when it was used extensively to record battlefield conditions on the spot.

Musical Clubs Give Concert at Pontiac

The musical organizations of IIT returned from Pontiac Sunday night, June 2, after a weekend of concert activities.

The men of the band, glee club, orchestra and swing band left on two chartered buses early Saturday afternoon. Upon arriving at Pontiac they paraded around the cityhall and proceeded to the Armory for sleeping accommodations.

Supper given by the Navy Mothers of Pontiac was followed by a dance at the Armory with the swing band furnishing the music.

The music clubs played their first concert at 11 a.m. Sunday morning in the State Prison.

At 3 p.m. they opened the park season with a public concert in the park pavillion.

Featured in the concert was "Warsaw Concerto" by Addinsell with Marie Schrot as piano soloist. Miss Schrot made the trip to Pontiac on the Alton Railroad.

Supper was served at the Moose Lodge, after which the men boarded the bus for the journey home.

Newman Club to Hold Picnic Next Saturday

A picnic has been planned by the Newman Club for next Saturday night, June 15, at 7 p.m. at the "Point," 55th street and the lake.

All faculty members and students are invited. Hot dogs and "cokes" will be supplied free. There will be no charge for the affair. Besides the food, there will be a baseball game, swimming, and other activities.

The picnic will be the last official meeting of the club this semester. Plans are being made for the club to remain active on a smaller scale during the summer. Anyone attending summer school may take part in these coming activities.

Officers were elected for the fall semester at a meeting last Tuesday. Those elected were: President, Jim Hartnett; Vice-president, Bob Ritter; secretary, Pat Kennedy; treasurer, Al Bourdon; program chairman, Louie Tyma; social chairman, Maristell Dixon, and publicity chairman, Phil Weber.

Danek to Head Tau Omega

August Danek was elected president of Tau Omega, honorary aeronautical engineering fraternity, last Thursday evening.

During the same meeting, six new members were initiated into the IIT chapter. The pledges were: Tom Feehery, Art Horowitz, Sam Altschuler, Kermit Swanson, George Liegler and Donald Asire.

Radio Newspaper



FACSIMILE—A demonstration of sending a typewritten page complete with pictures by radio will be made tomorrow afternoon when the radio facsimile equipment of the Chicago Tribune will be shown at IIT.

Will Show Reproduction Of Newspapers by Radio

A demonstration of radio facsimile reproduction of newspapers will be presented to Illinois Tech students from 2 to 3 p.m. on Wednesday in Room 305 Main through the courtesy of the Chicago Tribune.

This demonstration, while being sponsored by the electrical engineering department, is open to any students who are interested. Radio waves for the demonstration originate from the Tribune's FM station, WGNB.

Roller Skating, Hayride Feature WAA Fall Plans

At a meeting of the Women's Athletic Association last Friday plans for the fall semester were made. It was also decided that a roller skating party and a sleighride or hayride would be the highlights of the fall term, and that an outdoor barn dance will be held in spring. A dance which was to be held this term was called off.

It was announced that swimming and tennis had been called off, and will probably be postponed indefinitely.

Integral Editors Announce Publication Will be Delayed

Interrupted schedules, and competition from other schools have delayed publication of the 1946 Integral, according to an announcement made by the editors, Jim Brophy and Chuck Hatstat. The original date of publication was the first week of June, but it has been necessary to extend this to the last week of this month.

Graduates will be unable to obtain a copy before graduating, but the staff has made arrangements to mail the book to all graduates, and those navy men who have paid for the issue, but will not return to IIT. Students who wish to have the Integral mailed to them should indicate this by dropping a card in the Technology News box in the Student Union lobby. The card should contain the following information: home address, number of full-time terms at IIT as of June, 1946, and class. Those students who have already done so need not repeat the act, according to Herbert Sachs, business manager.

In making the announcement, it was also disclosed that the yearbook will be no larger than the 1945 Integral, because of the critical shortage of 72 pound paper which existed at the time the contracts were signed, and on which the pages are printed. Insistence on this grade of paper insured maximum clarity of the pictures, and allowed clearer type, said Brophy.

The book will consist of 228 pages, and covers every department at Illinois Tech. The sections have been arranged in order of importance to the student, starting with the faculty and administration, carrying on through the graduating classes, the undergraduate classes, student organizations, honorary fraternities, athletic teams, and the social fraternities. Also included is a section devoted to dances and other social functions held by the students.

Last of the wartime yearbooks, the 1946 Integral was designed to cover the preceding three terms. Since the various groups were photographed during the winter term, the membership list of each organization includes only those who were members at that time. It was impossible to

Ridings to Address Honor Journalists

Mr. Paul O. Ridings, former director of the IIT News Bureau, will be the guest speaker at the Pi Delta Epsilon initiation tomorrow evening. Martin's Restaurant, 33 N. La Salle St. will be the scene of the national collegiate journalism fraternity affair.

Formal initiation of pledges will be at 6 p.m. This will be followed by a banquet and program at 7:30.

Ridings, who left IIT in 1944, is one of the charter members of the organization. It was due primarily to his efforts that Technology News was reorganized in 1943. Since this reorganization program Technology News has received three All-American ratings in collegiate journalism competition.

Home Ec. Club Will Meet For Last Time This Term

The Home Economics Club will meet for the last time this term at the annual award tea at 3:00 p.m., Thursday in room 809, 18 South Michigan.

A scholarship will be presented to a deserving home economics student at the tea. The Pillsbury Mills award, a set of twelve books, awarded to an honor student of the department will also be presented. The identities of the two winners will not be disclosed until the tea.

The affair will also be a farewell for nine graduating seniors: Helen Gordon, Hope Iversen, Betty Jordan, Helen Maloney, Dorothy Place, Irene Ptak, Violet Forsberg, and Esther Talvensaar.

cover activities this term because of the deadline, which was set for early in March, according to a statement issued by Hatstat.

FINAL EXAMINATIONS Third Term 1945-46

A—Alumni Memorial Hall, AH—Assembly Hall in Student Union, C—Chapin Hall, M—Main Building, P—Physics Bldg., D—Downtown Campus.

Friday, June 21, 1946

8:10 a.m. to 10:00 a.m.

Anal. Geom. & Trig., Math 102.....	500M
Anal. Geom. & Trig., Math 102.....	500M
Anal. Geom. & Trig., Math 102.....	500M
Anal. Geom. & Trig., Math 102.....	502M
Anal. Geom. & Trig., Math 102.....	305M
Anal. Geom. & Trig., Math 102.....	A.H.
Anal. Geom. & Trig., Math 102.....	102C
Calculus, Math 201.....	500M
Calculus, Math 201.....	500M
Calculus, Math 201.....	505M
Calculus, Math 201.....	A.H.
Calculus, Math 201.....	202C
Calculus, Math 201.....	214C
Calculus, Math 202.....	500M
Calculus, Math 202.....	502M
Calculus, Math 202.....	A.H.
Calculus, Math 202.....	217C
Calculus, Math 202.....	A.H.
Math. Refresher, Math 300.....	105C
Math. Refresher, Math 300.....	211C

10:10 a.m. to 12:00 m.

Navigation & Naut. Astronomy, N.S. 5.204A	
Navigation & Naut. Astronomy, N.S. 5.118A	
Fund. of English, Eng. 101.....	500M
Fund. of English, Eng. 101.....	500M
Fund. of English, Eng. 101.....	500M
Fund. of English, Eng. 101.....	305M
Fund. of English, Eng. 101.....	305M
Fund. of English, Eng. 101.....	305M
Heat Power Engr., M.E. 401.....	218A

1:10 p.m. to 3:00 p.m.

Navigation, N.S. 4.....	204A
Gen. Inorg. Chem., Chem. 101.....	500M
Gen. Inorg. Chem., Chem. 101.....	A.H.
Ch.E. (Lecl.) Ch.E. 302.....	102C
Chem. Engr. (Lecl.) Ch.E. 401.....	102C
Quan. Anal. (Lecl.) Chem. 201.....	305M
Structural Design, C.E. 413.....	220C
Radio Engineering, E.E. 418.....	105C
Heat Exchange, M.E. 422.....	502M

3:10 p.m. to 5:00 p.m.

Economics II B.E. 102.....	500M
Economics II B.E. 102.....	305M
Economics II B.E. 102.....	502M
Economics II B.E. 102.....	102C
Fluid Mechanics Lab., C.E. 324.....	218A
Reinforced Concrete Des., C.E. 416.....	220C
Machine Tools Lab., M.E. 319.....	A.H.

Saturday, June 22, 1946

8:10 a.m. to 10:00 a.m.

Review Algebra, Math 10.....	305M
Review Algebra, Math 10.....	A.H.
College Algebra & Trig., Math 101.....	500M
College Algebra & Trig., Math 101.....	500M
College Algebra & Trig., Math 101.....	502M
College Algebra & Trig., Math 101.....	505M
College Algebra & Trig., Math 101.....	A.H.
College Algebra & Trig., Math 101.....	A.H.
Math. for Arch., Math 108.....	500M

1:10 p.m. to 3:00 p.m.

Kinetics, Mech. 202.....	305M
Fluid Mech., Mech. 302.....	502M
Fluid Mech., Mech. 302.....	102C
Embryology, Bi. 312.....	217C
Art Appreciation, H.E. 110.....	505D
Prin. of Acctg. B.E. 121.....	105C

Math. for Arch., Math 104.....500M
Math. for Lib. Arts Sta., Math 121.....500M
Math. for Lib. Arts Sta., Math 122.....500M
Naval Administration & Law N.S. 6.....218A

10:10 a.m. to 12:00 m.

Ordnance & Gunnery, N.S. 8.....	218A
Eng. Comp., Eng. 102.....	500M
Eng. Comp., Eng. 102.....	500M
Eng. Comp., Eng. 102.....	500M
Eng. Comp., Eng. 102.....	505M
Eng. Comp., Eng. 102.....	505M
Eng. Comp., Eng. 102.....	502M
Eng. Comp., Eng. 102.....	502M
Production Meth. Lab., M.E. 419.....	200MH

1:10 p.m. to 3:00 p.m.

Chem. (Qual. Anal.) Chem. 103.....	500M
Chem. (Qual. Anal.) Chem. 103.....	A.H.
Elem. of Elect. Engr. I, E.E. 205.....	502M
Thermodynamics, M.E. 305.....	305M
Thermodynamics, M.E. 306.....	305M
Amer. Polit. Inst., P.S.S. 276.....	102C

3:10 p.m. to 5:00 p.m.

Economics I, B.E. 101.....	500M
Economics I, B.E. 101.....	305M
Economics I, B.E. 101.....	502M
Economics I, B.E. 101.....	204A
Economics I, B.E. 101.....	218A
Physical Chem., Chem. 309.....	102C
Thermodynamics, M.E. 316.....	A.H.
Thermodynamics, M.E. 411.....	A.H.

Monday, June 24, 1946

8:10 a.m. to 10:00 a.m.

Statics, Mech. 201.....	500M
Mech. of Mat., Mech. 301.....	305M
Botany, Bi. 111.....	217C
Adv. Mech. Design, M.E. 430.....	502M
Modern Europe, P.S.S. 102.....	102C

10:10 a.m. to 12:00 m.

Appl'd Mechanics, Mech. 203.....	102C
Appl'd Mechanics, Mech. 204.....	105C
Appl'd Mechanics, Mech. 207.....	108C
Str. of Materials, Mech. 208.....	111C
Surveying, C.E. 202-204.....	220C
Adv. Circuit Theory, E.E. 403.....	202C
Home Econ. Survey, H.E. 100.....	808D
U.S. His. since 1865, P.S.S. 202.....	114C
Latin-Amer. Republics, P.S.S. 406.....	218A

1:10 p.m. to 3:00 p.m.

Kinetics, Mech. 202.....	305M
Fluid Mech., Mech. 302.....	502M
Fluid Mech., Mech. 302.....	102C
Embryology, Bi. 312.....	217C
Art Appreciation, H.E. 110.....	505D
Prin. of Acctg. B.E. 121.....	105C
Physiology, Bi. 214.....	217C
Physiology, Bi. 215.....	220C
Drawing & Estimating, C.E. 201.....	217C
Railway & Highway Loc., C.E. 205.....	218A

Electricity, E.E. 414.....102C
Electricity, E.E. 414.....105C
Family Economics, H.E. 355.....502D

Tuesday, June 25, 1946

8:10 a.m. to 10:00 a.m.

Marketing, P.E. 371.....	102C
American Public Education, Ed. 503.....	105C
Elem. of Elect. Engr. II, E.E. 206.....	305M
Mechanism, M.E. 201.....	502M

10:10 a.m. to 12:00 m.

Chem. Engr. (Lecl.) Ch.E. 301.....	102C
Street & Highway Des., C.E. 302.....	220C
Educational Sociology, Ed. 509.....	105C
A.C. Circuit Theory, E.E. 309.....	108C
A.C. Circuit Theory, E.E. 309.....	111C
Introd. to Food Study, H.E. 102.....	805D
Eng'r. Materials, M.E. 231.....	500M
Eng'r. Materials, M.E. 232.....	500M

1:10 p.m. to 3:00 p.m.

Organic Chem. (Lecl.) Chem. 204.....	500M
Organic Chem. (Lecl.) Chem. 205.....	500M
Stresses in Framed Struct., C.E. 503.....	102C
Rotating Machinery, E.E. 407.....	105C
Mechanical Processes, M. E. 9.....	108C
Chicago & Illinois, P.S.S. 405.....	218A

3:10 p.m. to 5:00 p.m.

Materials & Fluid Mech. Lab., C.E. 321.....	305M
Materials Lab., C.E. 323.....	305M
Clothing Problems, H.E. 122.....	802D
Physics, Phys. 102.....	500M
Physics, Phys. 201.....	500M
Physics, Phys. 202.....	502M
Physics, Phys. 203.....	102C
Physics, Phys. 204.....	105C

Wednesday, June 26, 1946

8:10 a.m. to 10:00 a.m.

Adv. Econ. B.E. 212.....	102C
Adv. Econ. B.E. 213.....	102C
Engineering Analysis, E.E. 303.....	218A
Engineering Analysis, E.E. 303.....	105C
Engineering Analysis, E.E. 304.....	108C
German, Elem. Ger. 101.....	305M
German, Elem. Ger. 102.....	305M
German, Inter. Ger. 202.....	305M
French, Elem. Fr. 102.....	305M

10:10 a.m. to 12:00 m.

Steel Buildings, C.E. 304.....	220C
Structural Design, C.E. 312.....	502M
Introductory Psychology, Psy. 201.....	305M
Theory of Reinforced Concrete, C.E. 505.....	220C
Applications of A.C. Circuits, E.E. 507.....	105C
Meal Preparation, H.E. 203.....	805D
Bus. Organ., I.E. 241.....	305M

3:10 p.m. to 5:00 p.m.

Eng. Electronics, E.E. 510.....	105C
Applied Design, H.E. 226.....	502M
Machine Design, M.E. 202.....	502M

PLEASE REPORT ALL CONFLICTS TO THE OFFICE OF THE REGISTRAR IMMEDIATELY.

Announce Plans For All-School 'Integral Ball' Early Next Fall

Plans for an all-school "Integral Ball," to be held within the first month of school in the fall, were laid tentatively at a meeting of the 4B senior class officers held last Wednesday, according to Fred Travis, 4B senior president.

Oct. 19 was selected as being the most convenient time to hold the affair, which will thus become the first social event of the fall semester. According to Travis, an effort will be made to make the essentials of this dance different from those held recently at IIT. In this line, a new ballroom will be chosen, and a different type of bid will be selected.

Traditionally, at the Integral Ball, a queen and court are elected during reign for the evening and are also named Queen and Court of the Integral, the school yearbook. In the past it has been the privilege of the graduating seniors to hold an Integral Ball during the fall term.

A real effort will be made to have the choosing of the queen carried out in a different manner from which has been used recently to select the queen of Junior Week last month and the last Integral Queen. It is hoped that the response for this contest will be as good as that for the Junior Week Queen, said Jim Hartnett, 4B social chairman.

Several of the officers of the class are planning to attend summer school, according to Travis, and they will be in a position to further complete plans during the summer months. This will enable final plans to be presented to the student body immediately upon return to school in the fall.

Though still tentative, it is expected that the dance will be semi-formal after the manner of the Junior Prom. However, the final word on all features of the affair will be held until the fall term, said Travis.

Hatstat New President Of Electrical Honorary

Charles Hatstat last week was elected as president of Eta Kappa Nu, electrical engineering honorary.

Other officers elected were: vice-president, Grant Hansen; corresponding secretary, Leonard Rabins; recording secretary, Jim Brophy; treasurer, Paul Boggess; and Bridge correspondent, Seymour Lascoe.

The chapter has made plans for a beach party to be held at the Montrose Avenue Beach this Saturday. Retiring president Walter Czeropski said that hot dogs, marshmallows, and cokes will be provided for the members and their guests.

SAM Sponsors Field Trip To R. R. Donnelley Plant

The Illinois Tech student chapter of SAM is sponsoring a tour through the R. R. Donnelley & Sons plant today.

Mr. H. P. Dutton, head of the Industrial Engineering department, said that the trip is intended primarily as a study in production control. Twenty students will participate in the tour. Preference will be given to student members of SAM.

RHO EPSILON

(Continued from page 1)
length on 80 meters. It is 120 feet long and is atop Chapin Hall.

The Rho Epsilon laboratory is on the 4th floor second entrance Chapin. This radio laboratory is fully equipped. Rho Epsilon keeps its television receiver, wire recorder, and many different types of testing apparatus in this laboratory.

Anyone who wishes to send a message to a friend via the Rho Epsilon transmitter is invited to come to the laboratory and leave their message with anyone there.

During Junior Week, the transmitter was on exhibition and in operation. Also demonstrated by Rho Epsilon was their television receiving set and other equipment.

Besides all this, the Rho Epsilon fraternity furnishes the daily lunch-room music.

Plan Forty Courses In Evening Division Summer Sessions

Forty courses in ten curricula will be offered by the evening division this summer, according to Dr. Stanton E. Winston, dean of the evening school. Classes will commence on July 1 and last until August 30. They will be held from 6:30 to 9 p.m. on Monday, Wednesday, and Friday. All classes will be held at the Technology Center.

Registration for evening school will be held on June 27 and 28 from 6 to 9 p.m. in the Student Union Building. Tuition should be paid when registering. Veterans who wish to enter under the "G.I. Bill" should secure a letter of eligibility or a 1950 form.

Dr. Winston said that he expected an enrollment of between 800 and 1000 students this summer.

ANNOUNCE

(Continued from page 1)

Emerald avenue; Arnold Rosenbloom, 5418 Ingleside avenue; Donald R. Scheid, 236 W. Sixteenth place, Chicago Heights; Leonard Schraiberg, 6348 N. Washtenaw avenue; and Robert D. Skorheim, 526 N. Humphrey, Oak Park.

Out of town winners were Harold L. Rechter, 1731 Willis, Omaha, Neb., and Robert S. Satre, 703 North avenue, Sheboygan, Wis.

New Vis Ed Head



PHOTOGRAPHIC EDUCATOR—recently appointed head of the visual education department, assumed duties as such last week.

Physics Club Will Meet

The Physics Club will meet Thursday at 5 p.m. in room 207P. A proposed constitution will be up for adoption at the meeting. Election of officers for the fall semester will also be held.

Announce Dedication of Ohmite Precision Instrument Laboratory

The Armour Research Foundation will unveil a new and unique service to industry in the Chicagoland area on June 13 when it dedicates its Ohmite Laboratory of Precision Electrical Instruments.

Designed to provide a precision measurement of electrical and magnetic quantities approaching in accuracy those of the Bureau of Standards in Washington for organizations in this vicinity, this laboratory was made possible through the generosity of David T. Siegel, president of the Ohmite Manufacturing Company.

Dr. J. E. Hobson, director of the Armour Research Foundation, has extended an invitation to all interested members of the staff and the students to attend the program being arranged for the afternoon.

Talks by Dr. E. U. Condon, director of the National Bureau of Standards, Washington, and Dr. G. Edward Pendray, New York industrial consultant, will feature the all-day program following inspection tours through the Ohmite Laboratory and the various laboratories of Illinois Tech and its Armour Research Foundation.

Dr. Condon will speak on "The Place of Precision Measurements in Industry," and Dr. Pendray will pursue the theme, "Cooperation Between Industry and Education." The Ohmite Manufacturing Company will

be the host at a social hour following these talks.

The Ohmite Laboratory, the first laboratory of its kind with facilities in Chicago available to industry, will particularly benefit power companies, manufacturers of various kinds of electrical equipment, and colleges in the vicinity. It will also be used for graduate study and in electrical standardizing work for the various departments of the Institute.

L. W. Matsch, supervisor of power and electrical measurements for the Institute's Armour Research Foundation, and Professor E. H. Schulz of the electrical engineering department at Illinois Tech, are co-directors of the project.

Chamberlain at Tax Meet

Professor V. B. Chamberlain, of the business and economics department, was the state representative at the annual conference of the National Tax Association held at the Palmer House June 3. Appointment of Prof. Chamberlain as state representative to the conference was made by Governor Dwight H. Green.

Du Pont Digest

Items of interest in the fields of Chemistry, Engineering, Physics, and Biology

Chemistry Finds Better Way to Descale Steel

One of the most bothersome problems in the metal industry is the removal of scale from the surface of stainless steels and other alloys. Scale is a thin film of metal oxide which forms at high temperatures during fabrication or processing. It is very abrasive to dies and other metal-forming tools, and if not completely removed causes serious flaws in the surface of finished products.

Several years prior to World War II, Du Pont chemists, engineers and metallurgists went to work on the problem of developing a quick and positive descaling process. When success came three years later, a secrecy order prevented its public announcement at that time—the discovery went directly into war work.

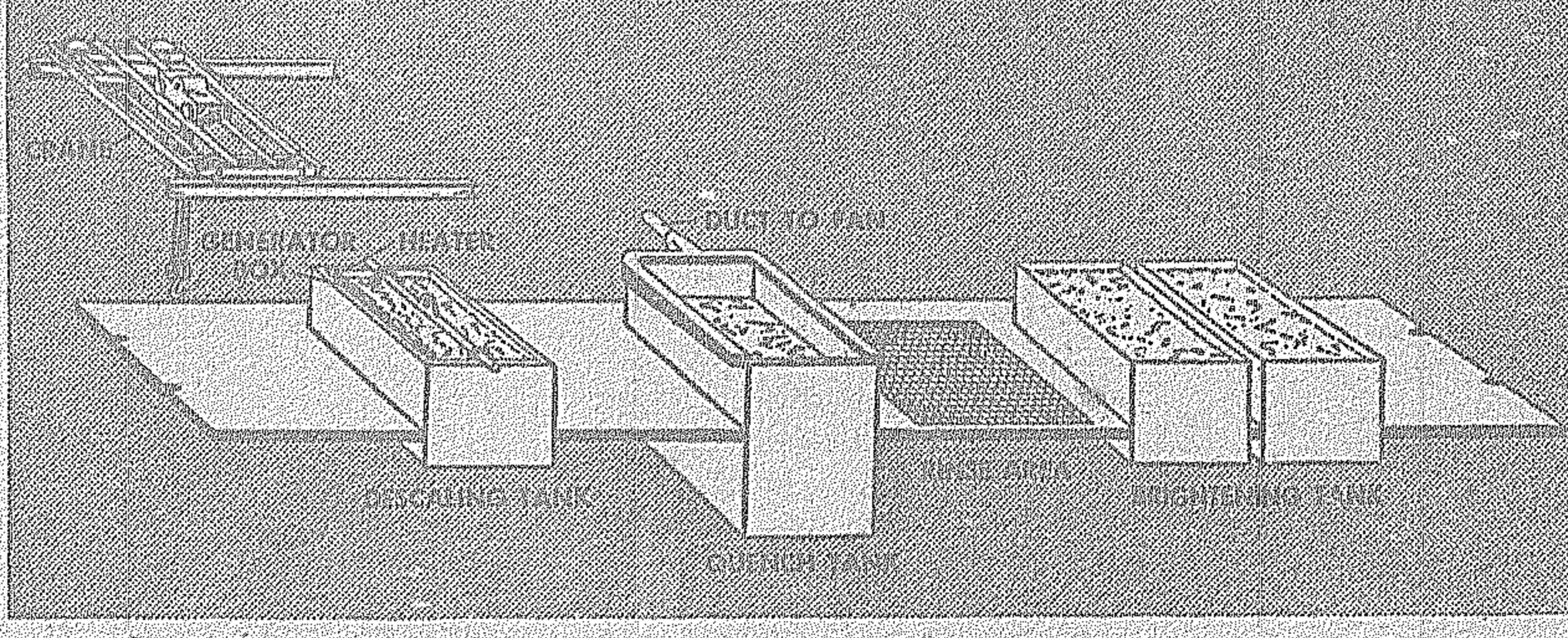
Process Development

In developing the process, a group of Du Pont Chemists found that small amounts of sodium hydride, dissolved in molten sodium hydroxide, effectively removed scale without attacking the base metal or embrittling it. However, the problem then arose of finding an efficient and economic means of obtaining the sodium hydride. This was accomplished by developing an ingenious apparatus for forming it directly in the molten sodium hydroxide (700° F.) from metallic sodium and gaseous hydrogen.

Metal chambers, open at the bottom, are placed along the inside of the descaling tank and partly immersed in the bath. Solid sodium is introduced into these chambers, and hydrogen gas bubbled through. The sodium hydride formed is diffused uniformly throughout the molten caustic.

Practical Application

The metal to be descaled is immersed in the bath which contains 1.5 to 2% of sodium hydride. Scale is reduced to the metallic state for



A typical layout showing arrangement of equipment for sodium hydride descaling. The usual treating cycle comprises sodium hydride treatment, water quench, water rinse and acid dip for brightening.

the most part in from a few seconds to twenty minutes, depending on the size and type of material.

The hot metal is then quenched in water, and the steam generated actually blasts the reduced scale from the underlying metal. A water rinse and a short dip in dilute acid complete the process and produce a clean bright surface.

This process has been called the most significant development in the cleaning of metal surfaces in decades. It is representative of what men of Du Pont are doing to help American industry to better, quicker, more economical production methods.

MAN-MADE SPONGES PRODUCED BY DU PONT CHEMISTS

Among the most versatile members of the family of cellulose products—whose members include rayon, cellophane, lacquers and plastics—is the synthetic sponge.

Du Pont cellulose sponges have many of the attributes of the kind that grow in the sea, plus several additional advantages. For example, quality can be kept uniform; texture and hole-size can be predetermined; they can be cut to handy shapes, and they may be sterilized by boiling.

The complicated 10-day manufacturing process starts when viscose is produced by adding carbon disul-

phide to alkali cellulose (from wood or cotton), and dissolving the mixture in water and mild alkali. To produce holes, crystals of the desired size are introduced. Heating in a salt solution hardens the viscose and dissolves out the crystals. Washing, centrifuging and oven-drying complete the operation.

Questions College Men ask about working with Du Pont

"DOES THE DU PONT COMPANY EMPLOY ENGINEERS?"

There are many diverse opportunities at Du Pont for engineers. Principal requirements are for chemical and mechanical engineers, but opportunities also exist for industrial, civil, electrical, metallurgical, textile, petroleum and others. Practically all types of engineering are included in the work of the manufacturing departments and the central Engineering Department. Openings for qualified engineers exist at times in all of these departments.



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More facts about Du Pont—Listen to "Cavalcade of America," Mondays, 7 P. M. CDST, on NBC