

IIT Sanitary Engineers Investigate and Conduct Surveys Concerning Sewerage

Investigation and conduct of field surveys preliminary to the design of sewerage and storm water systems, is one of the prevalent topics being taken into consideration by the prospective sanitary engineers studying in Illinois Tech's sanitary laboratories. The determination of the quantity of house flow, quantity of storm water, of shape and dimensions of conduits with the effect of depth and grade are also being considered. Modern methods of sewerage disposal and treatment are being studied in detail.

The sewage treatment laboratory includes a 1500 gallon aeration tank equipped with a Roots-Connorsville blower and several types of aeration equipment. Small scale experimental units for pilot plant studies of industrial waste treatment processes are also available. The sewage analysis laboratory is equipped for making analyses for plant control and research studies.

The soil mechanics laboratory is equipped to perform the tests used to determine the physical properties of soil that have a direct bearing on problems in earthwork and foundation engineering. The equipment includes all apparatus necessary for mechanical analysis and for Atterberg limits, consolidation, permeability, shearing and compression tests.

The water filtration laboratory contains an experimental water treatment and filtration plant that provides the student in water supply with an actual operating plant having a capacity of 25 gallons per minute. It consists of two 2,000 gallons row water control tanks and a 2000 gallon filtered water reservoir, specially designed aerator and mixer, orifice boxes, chemical feeders, sedimentation reservoir of 9000 gallons capacity, filters, rate of flow controller, and a wash water pumping system for cleaving the filter.

These sanitary laboratories are located in the southern part of Chapin Hall. The aeration equipment is located in the basement and the water treatment apparatus is kept on the second floor. The main sanitary laboratory is located on the 3rd floor of Chapin Hall.

Bohle Will Speak at Next ASME Meeting

Fred Bohle, chief engineer of the Illinois Tool Works, will be the speaker at the ASME student meeting to be held at 11 a.m., Wednesday in Room 305 Main. Bohle's subject will be "Modern Methods of Gear Design."

Bohle is highly experienced in the field of gear design and in modern methods of gear manufacture.

Gears of special design are now being used in marine construction, in airplane engines, and in many new war weapons. The talk will be about some new developments in the design of gears for these purposes. The lecture will be illustrated with slides. It should be extremely interesting to all mechanical engineers according to Dr. R. A. Budenholzer of the ME department.

Degrees to Be Given to Allis Chalmers Employees

A graduate training program is being started by IIT in which graduate engineers at Allis Chalmers Mfg. Co., of Milwaukee, Wis., will be given an opportunity to receive an advanced degree.

The classes will be held in the plant, and the registration fees will be paid in part by Allis Chalmers, the amount depending on the grades of the men.

Dr. Robert Kintner and Dr. J. E. Hobson spent Wednesday in Milwaukee where they interviewed and registered 73 students.

According to Hobson the men will receive two semester hours credit for a course which will meet for two hours once a week. At this rate the requirements of 32 hours course work and a thesis for an MS degree in EE or ME can be finished in three years.

Pinups Allowed Later Deadline

The closing date of the pinup contest has been changed to October 4. This means that many of the civilians who have expressed a desire to enter pictures, but have not been able to obtain them on such short notice, will be able to submit their favorites.

The reason for this change is the frequent request of civilians for a longer period of time to procure their picture. They claim that they have been promised pictures, but were not able to get theirs in the very limited period previously allotted.

Technology News agreed to this concession to the civilians on the grounds that they have turned in nearly twice as many entries as the navy, hence deserving consideration.

Two finalists will be selected, one navy entry and one civilian entry, and the winner will be selected from these. Pictures should be submitted to the News Bureau, fourth floor Chapin, or in the *Technology News* Box in the S U lobby.

The winner will be awarded a bid to the ASSC dance to take place on October 14. All pictures will be safely returned to the person submitting them.

Monthly War Bond Sales Total \$9,300 for V-12

A total of \$9,300 are being invested each month by the officers, trainees, and ship's company of the Illinois Tech V-12 unit, according to Lt. M. P. Andersen, executive officer. Over 600 of the officers and men are participating in this feat while only 88 are not buying bonds.

"It is our hope that those not buying bonds will subscribe to at least one a quarter," said Andersen. The unit has been one of the highest purchasers of bonds among the V-12 units in the ninth naval district. Many of the men all of whom receive \$50 a month are putting one-half of their pay in bonds.

Armour Research Foundation Assists in Formation of Similar Kansas City Group

The Midwest Research Institute was recently started in Kansas City to carry on research similar to and under the guidance of the Armour Research Foundation. Dr. Harold Vagtborg, director of the ARF will act as consultant.

Juniors Will Roast Wieners October 7

The date for the junior "weenie" roast has now been set for October 7. Tom Ruck, class president, announced that the date was advanced to meet ASSC approval.

All juniors intending to go to this social must inform a class officer before Friday.

An accurate estimate of the food required must be had by that time, since the class treasury is fitting the bill. The "eats" will consist of wieners, buns, relishes, and cider with other items considered.

All couples attending the affair will meet at Thatcher's Woods, site of the affair.

Specific instructions on the best transportation have been given by Larry Johnson, social chairman, as follows:

Take the Lake Street "L" west and get off at the Marion Street Station. Then walk north about a block to Lake Street and there take a streetcar going west. Ride the streetcar to First Avenue in Maywood. Get off at this stop and walk north a few blocks direct to Thatcher's Woods.

At the present time Dr. Wilmer T. Rinehart of the ARF staff is on leave of absence in Kansas City helping to organize this institution following the pattern of the ARF. The unique feature of the MRI will be that it will not be affiliated with any educational institution. It will be supported by industrialists of the middle west.

In time the MRI will break its ties with the ARF and become a completely independent and parallel organization. They have begun work on their first project under the sponsorship of the Military Chemical Works Inc. This project directly concerns post-war reconversion in that they are finding a peacetime use for a war time product. Ammonium nitrate now used for explosives will be used as a fertilizer.

The MRI will soon start research on new materials for ceramics and refractories and on industrial application of electronics.

The financial goal of the MRI is one half million dollars and up to date they have met success to the extent of \$300,000.

The Armour Research Foundation began a number of years ago with even less capital.

NAVAL NOTATIONS

Quarters #2

A goodly number of men in the quarters spent the past week end with friends and relatives taking advantage of the newly allowed liberty extension. Among them were Jim Crum, Mel Alexander, Fred Ardern, Joe Centa, Stan Cervenka, Jon Greenberg, Don Johnson, Fred Leydig, Tom Moran, Frank Muchy, Virgil Newbrander, Glenn Rodman, Chet Zdanowicz, Bob Svenson, and John Schick.

Bob Lichtmann was the star in last week's touchball games. He not only intercepted one pass which he proceeded to run for a touchdown but threw passes to Al Waite and Dick Papps for the other two touchdowns. Team 2AA was also the victor Friday night when they defeated another Quarters #5 team 6 to 2. The only touchdown occurred when Dick Meissner intercepted a pass and with good blocking and excellent field running went nearly the whole length of the field to score.

Joe Centa is the selection as the lover of the week. Not only does he operate on Saturday, Sunday, and Wednesday, but is keeping up the traditional naval spirit while attending Lewis on Tuesdays and Thursdays. Anyone desiring further information can see Joe anytime at Quarters #2.

Quarters #3

An attempt was made on the life of Seaman George Leist by a balloon filled with water which was hung from the ceiling while he was sleeping.

3B won their second game of the season by defeating 1B, 6 to 0 while 3A lost to 4A by 7 to 6.

Chief Radio operator Bill Clark

stopped at the quarters, on his way home, to visit his old schoolmates Ted Zaggy and George Martinko.

Quarters #4

Jack Marsh sported some scorching fingers the first of the week. It seems he was trying to close the ignition in Arnold Kleinrath's car and drive it around the corner just out of sight. But rather than his closing the ignition, the ignition closed on his fingers with disastrous results.

Raymond Mead received a new guitar from his family as a birthday gift. Speaking of birthdays, John Hoffman and James Sutherin now lack only a year from the legal age, celebrating their twentieth last week. They are reported to be anxiously awaiting the day when they can taste this stuff called liquor!

Allan Kukral and Richard Peterson spent the weekend at the University of Illinois where Peterson had arranged dates for them through an old acquaintance at a girls' co-op house. Kukral's date turned up with a flaming top to match his own red hair.

Jack Capron is still bragging of the three home runs he made in the Pi Kappa Phi-Delta Tau Delta ball game.

Quarters #5

Jack Mattson came forth with the blazing idea of the red scivy shirts for the football team. Albert Damiani, Fredrick McCarthy, Alexander Paterson, and William Stewart used the new, all-purpose Rit to get the desired shade. The white "Quarters 5" is stenciled on with white ink.

Salty has been given another bath to make him more presentable as football mascot. His influence on the fortunes of the team is "as good as can be expected".

Mrs. J. J. Abbott sent the house

a whole ten pound box of candy.

The men have been planning a party to be given sometime before the graduating seniors leave.

Quarters #6

The American League race receives its share of attention from the men of #6. Recreation hours will find the baseball fans gathered around the radio listening to the daily game. Tiger fans of Detroit are very elated over their team's recent success and they don't spare any opportunities of letting the rest know it.

The decorators have been busy in club 6 the past week. The sleeping compartments of the third deck were redecorated as well as several compartments on the second deck.

Quarters #7

"Trip the light fantastic in the Goldberg manner" is the slogan of Ivan "Goober" Goldberg, who claims to have been a professional dancer before joining the navy. He is reported to be offering his talents for sale as an instructor. Needless to say all Quarters #7 men are flocking to take advantage of this extraordinary offer.

Quarters #7 men are patiently awaiting the day when the maintenance department will repair the window which was destroyed by a hefty sailor three weeks ago. In the meantime the neighborhood flies and insects (all ten million of them) are happily using the opening as an entrance.

Sympathy is in order for valiant Donnie Lange who on the first play of a recent touchball game injured his knee so severely that he is now hobbling around like a civil war veteran.



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Never before in the country's history has there been so much evidence of the indispensable part telephone service plays in the life of the nation. It makes a direct contribution to the effectiveness of every part of the war effort.

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