

## Peter Debye Lectures at Illinois Tech

### Describes to Sigma Xi A Magnetic Approach To the Absolute Zero

Dr. Peter Debye, Nobel laureate and one of the world's outstanding living scientists, addressed the IIT chapter of Sigma Xi, honorary scientific society, last Wednesday. The subject of his talk was "The Magnetic Approach to Absolute Zero."

Dr. Paul L. Copeland, president of the IIT chapter, introduced Dr. Debye, who is chairman of the department of chemistry at Cornell University, as the first Nobel prize winner to speak before this group. Debye received the Nobel award for chemistry in 1936. During the introduction Dr. Copeland commented on the wide range of subjects to which Debye has made significant contributions.

In the course of his lecture, Dr. Debye told how magnetic methods have been used to go from the lowest temperature possible 15 years ago, 0.7 degrees absolute, to the present low of 0.003 degrees absolute.

One of the many side problems which arose in the performance of the experimental work was that of measuring such temperatures. This was done by means of a magnetic thermometer which makes use of the fact that susceptibility varies with the temperature. The calibration was done by an ingenious method involving the absorption of energy from radioactive radiation and the use of some elementary thermodynamic theory.

In conclusion, Dr. Debye asked and answered the question of whether one need stop at this temperature of 0.003 degrees. He believes that this represents the lower limit which can be reached by the magnetic approach. However, if any new way can be found to diminish the "disorder" which still remains in the molecule at 0.003 degrees, he predicted that even lower temperatures will be possible. The most promising way in which this can be accomplished lies in a method of approach involving the nucleus, he stated.

## Rho Epsilon Forms New Radio Club

A radio club sponsored by Rho Epsilon, honorary engineering fraternity, will be organized this week. The first meeting of the club will be held this Wednesday at 5:30 p.m. in the Rho Epsilon quarters on the fourth floor in Chapin Hall. Frank Novak will be in charge of the organization of the club. He will be assisted by Louis Sprung and Dick Kuba. Membership is open to all navy and civilian students.

Rho Epsilon has recently acquired some new equipment, and this will be at the disposal of the new radio club members. Included in the equipment obtained are an oscilloscope, a signal generator and several meters.

The purpose of the radio club is to acquaint those interested with the principles of radio construction and theory. Novak stated that the activities of the club will vary from constructing one-tube radio sets to operating television sets.

## Post of AIEE President Will Be Held by Chase

Leonard Chase was elected president of the AIEE at the first meeting of the semester, held last Friday.

The other officers elected were Louis Sprung, vice-president; Marvin Quateman, secretary; Walter Kozinski, treasurer; and Steve Baluk, representative to the WSE.

Chase announced that meetings are to be held monthly and that prominent speakers will be obtained.

# Foundation Will Start Construction On Machine Shop Building This Week

## Site of New Machine Shop



CONSTRUCTION BEGINS SOON—The Research Foundation's new machine shop will occupy this space. Work was begun last week in clearing the space, and the above shot shows the results. Left standing is that part of Victory Hall which houses the wind tunnel. The new building will be erected over and around it.

By Fred Rest

## Army-Navy E Given Only for Production So Research Foundation Loses Award

The Armour Research Foundation has been nominated for the Army-Navy E. However, it was decided that the Foundation is not eligible for such an award, since it is primarily a research rather than a production organization.

James Forrestal, Under-secretary of the Navy, in a letter to the Research Foundation, told of the nomination and praised the work being done by the Foundation in support of the Navy's war effort.

He wrote that "the Foundation, its directors and the individual associates are all deserving of the very highest commendation for their patriotism and zeal in the prosecution of the many research problems which

have been referred to them."

The Research Foundation is now 100 per cent in war work—and has been for many months. It is working on, and has done, projects for all branches of the armed services and for practically every governmental agency using research.

## All Lockers Will Be Reassigned Tuesday

All lockers in the basement of Main Building must be reassigned on Tuesday, March 14, was the statement made by Bernard Weissman on Friday.

The place of registration will be Bernard Weissman's office in the Student Union and the time will be free from 10:30 a.m. to 2:30 p.m. Senior Class President Ed Puchalski, who is handling registration, said a very definite order of preference will be followed with the June graduates coming first, the October graduates next and then the juniors. Every locker must have at least two occupants. He also announced no freshman or sophomores will be allowed to have lockers as is the school's custom.

## Dance Club to Hold Meeting Wednesday

Will the dance club give instruction this semester? What kind? When?

These and other questions will be discussed at a short business meeting of the club at 7 p.m. Wednesday night in the lounge. Don Felsecker, president of the club, announced that the provisions of the new club constitution will be explained to the members at that time. Also, the type of instruction and time of instruction will be decided upon.

As before, girls from local organizations, schools and clubs will be invited to attend the dances, but they will have to register in a hostess book at each meeting, according to the constitution.

Beginning next week dues of ten cents will be charged to all men at each meeting, according to Felsecker. He added that these dues are necessary to help cover the cost of instruction.

The constitution was drawn up by Felsecker, Mrs. Anna Orcutt, the club's sponsor, and Tom Dressler, the former president. This is the first time that the dance club has had a constitution in three semesters.

As usual, the dance club will meet from 6:30 to 9 p.m., on Wednesday night. Except for the time taken by the business meetings, most of the evening will be used for dancing.

Last week, Felsecker appointed Joe Rimac vice-president and Dave Lemieux treasurer of the dance club. A secretary has not yet been chosen.

## Armour Players to Plan Their Spring Production

Plans for a spring production by the Armour Players will be discussed at 5:30 p.m. Thursday in Room 105 Chapin.

Construction will begin this week on the Armour Research Foundation's new machine shop. This will be the fifth building erected at IIT in the last two years. It will be the third unit of the general development program, and when completed will bring the total number of buildings used by the Research Foundation to seven. Its completion is expected in about three months.

The building will be of the same size as the Foundation's nearly completed diesel laboratory and will be joined to the latter. The two will form a unit extending from Federal street to the alley and from the present site of the diesel laboratory to 34th street.

Victory Hall and the adjoining building have already been torn down to make room for the new structure. The machine shop has been housed in the one story building between Dearborn and State streets. The new building will contain only one story, with 20 foot ceiling. There will be a trucking entrance and a driveway in the new building along the wall of the diesel laboratory.

The wind tunnel which was located on the first floor of Victory Hall will not be torn down; instead the new building will be erected over and around it.

## War Council Elects Negele President

Bob Negele, junior mechanical, was elected chairman of the Student War Council at a meeting held February 16.

Warren Furst a/s was elected secretary at the same time. Plans were formulated at the meeting to have the Red Cross blood unit come to IIT some time during the latter part of April.

Negele stated that a meeting is to be held Wednesday at 5:30 p.m. in the East Dining Room for the purpose of formulating plans for the coming term.

## Mullowney, Schommer's Secretary, to Resign

Lucile Mullowney, secretary to John J. Schommer, director of placement, will leave her position Wednesday.

After serving Schommer since November of 1942, Lucille will become a lady of leisure and her first move to fulfil this step will be to visit her home in Mauston, Wisconsin.

## Boder to Hold Open House on March 23, 24

### Psychological Museum To Display Equipment; Dr. A. Lauer to Speak

IIT's Psychological Museum will be opened to the public on Thursday and Friday evenings, March 23 and 24. From 6 to 10 p.m. there will be an exhibit on the west campus of psychological equipment used in psychological experimentation as well as in educational, vocational and industrial testing.

Another feature of the exhibit will be a collection of apparatus loaned by the Driver's Testing Laboratory of Iowa State College.

A demonstration lecture will be given in the auditorium at 8 p.m. Dr. David P. Boder, professor of psychology, will speak on "Sensory Processes, Learning and Emotions", sharing the time with Dr. A. R. Lauer, professor of psychology at Iowa State College. Dr. Lauer will speak on "Experimental Psychology Applied to Automobile Driving and Highway Safety".

Dr. Lauer, who directs the "drivers' clinic" at Iowa State, was in charge of the exhibit on safety and skill in driving at the New York World's Fair.

Admission is free, but because of seating limitations, admission to the lecture will be by ticket only. These may be obtained by writing to the museum at 1951 W. Madison Street, Chicago.

The Ruby Chevrolet Company has reserved several hundred seats for Thursday night's lecture.

## Digest to Feature Foundation's Story

Reader's Digest will feature an article about the Armour Research Foundation in its April issue, according to Paul O. Ridings, director of the News Bureau.

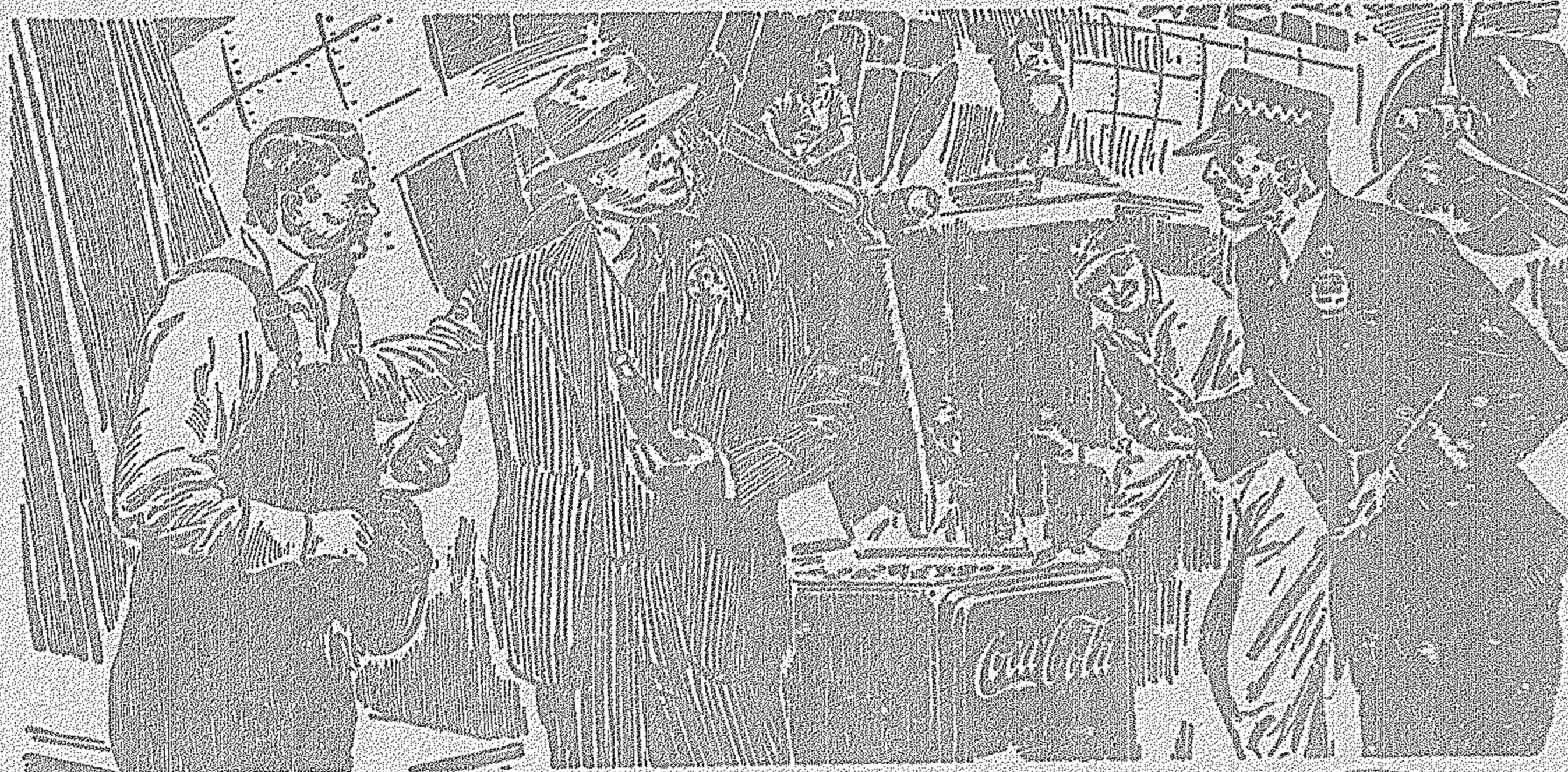
"Our Business Is Improving" is the title which is scheduled to appear on the article. Written by Francis Sill Wickware, a New Yorker who is a regular author for the Digest, the article will tell the story of the development of the Foundation and several of its human interest projects.

The article will also appear in the April issue of Scientific American, according to Ridings.

It has been in the making for more than a year, having had its inception in February, 1942, when Ridings gave Wickware the idea for the article during a visit to New York.

## Have a "Coke" = Hallo, Bracie

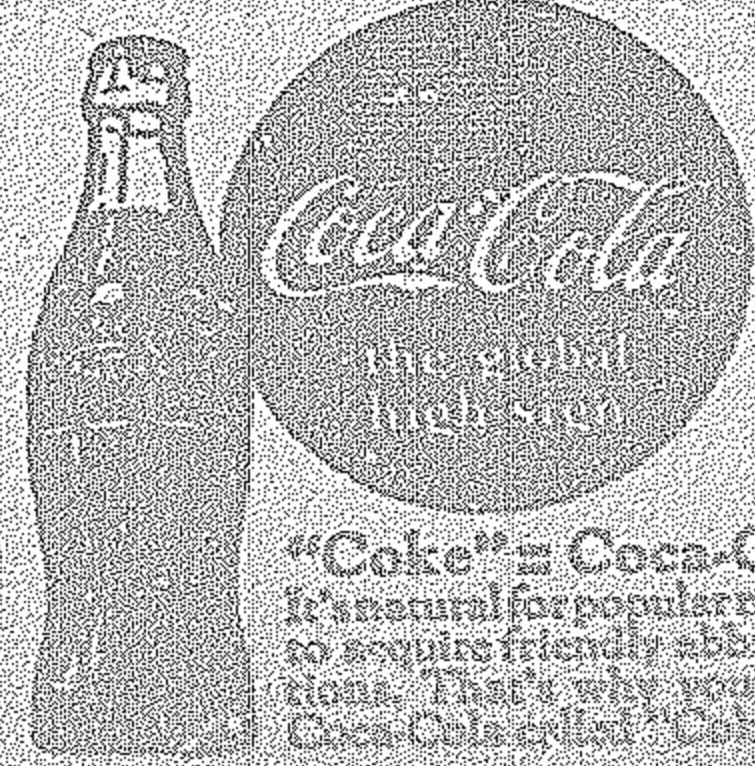
(HELLO, BROTHER)



...a way to say "Pardner" to a visiting Pole

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