

Antarctic Film Is Shown At W. S. E. Meeting

To those who heard Dr. T. C. Poulter's lecture at the W. S. E. meeting in the auditorium at ten a. m., Friday, November 29, the name Antarctica recalls beautiful scenes from the color film depicting the recent expedition. Dr. Poulter gave a resume of the reasons why dog teams are not satisfactory for expeditionary work in the Antarctica. One of the main reasons is that the distance to be covered and the load to be pulled must be limited to the dog-power, and half of that load is food for the dogs.

Two Engineers

Under the direction of Dr. Poulter, the Antarctic snow cruiser was built by the Pullman Standard Car Company in Chicago, to replace the use of dog teams in the Antarctic on long expeditions. The cruiser is 50 feet long and 15 feet wide. It is powered by two diesel engines driving generators producing electricity which is transmitted to the 75 h. p. electric motors, one of which is located in each wheel. The wheels are mounted individually, and steering can be accomplished by turning either the front or back wheels, or both, for greater maneuverability over the snow and crevasses of the land of the southern lights. On the inside, the cruiser is equipped with a radio room, a machine shop, galley, living room, bunks, and other comforts of home. On top is space and equipment for transporting the scouting plane from one base to another.

Purely Scientific

When questioned as to why the snow cruiser was built and sent on this expedition, Dr. Poulter said that it was a purely scientific expedition with no thought of commercial gain, although the whaling industry in the Antarctic is very extensive.

Bio Laboratory Conducts Many Classic Tests

Cultures in bacteria which grow in the absence of atmospheric oxygen and are therefore called anaerobes, are being raised by the bacteriology class at Lewis. Their scientific names are as follows: *Clostridium pistrificum*, *C. histolyticum*, and *Cl. perfringens*. A special beef heart broth is required for their culturing.

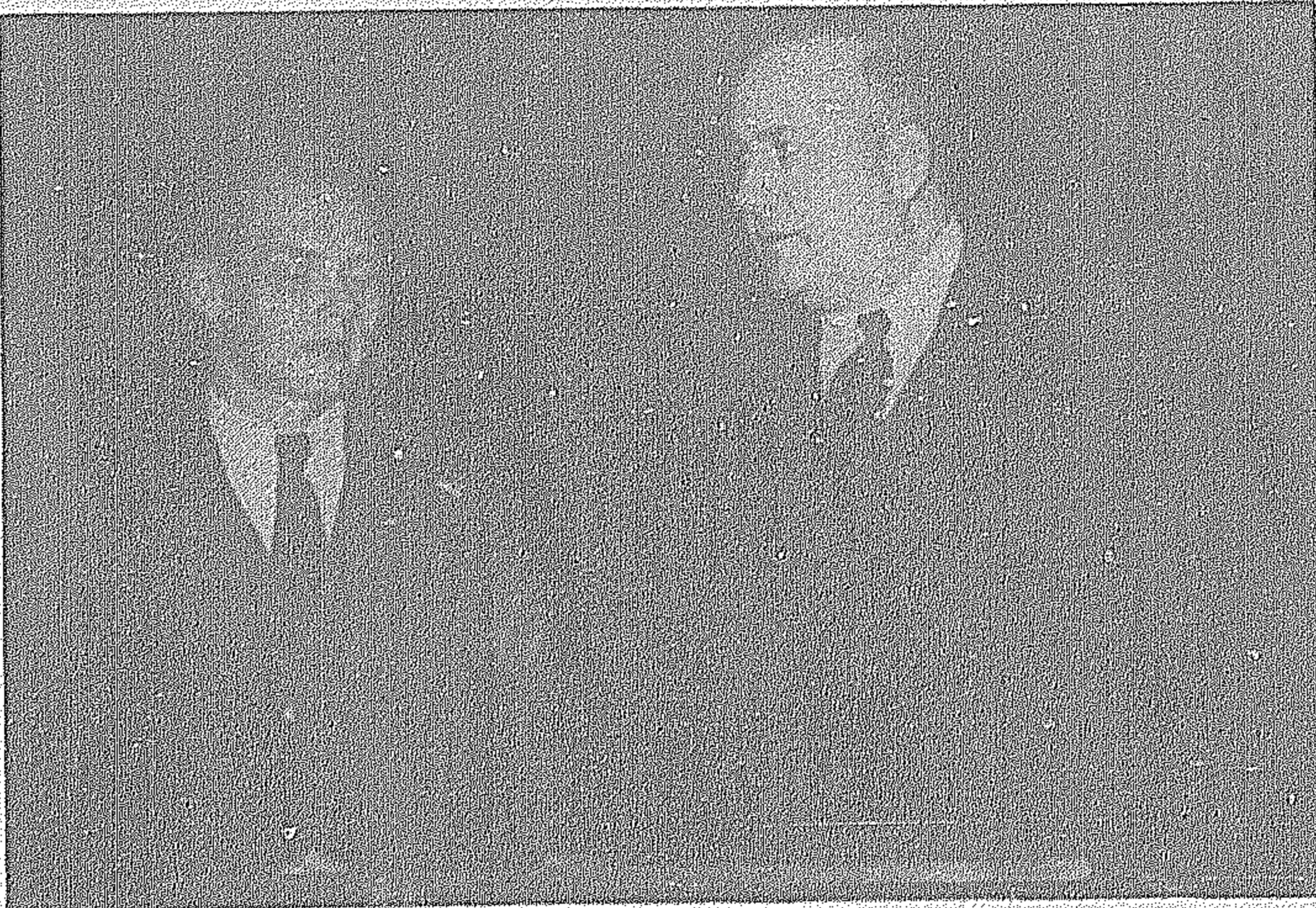
Counting corn kernels to determine monohybrid, dihybrid, and linkage ratios will soon be the work of the class in genetics. The studies will deal with such characters as purple, white, starchy, sweet, and red corn. From these counts a statistical analysis will be made in order to determine the mean, standard deviation, and probable error.

Inheritance Studied

Long range experiments in the breeding of fruit flies and regeneration in flat worms have been conducted by the general zoology class. By analysis of several generations, the inheritance of eye color and wing type is determined. The flat worms are cut into a variety of sections, and the regeneration of new individuals is observed. Several students in the class have assisted in making ceramic models of cellular changes in plant roots which are used by the class in their study of mitosis.

This fall both Dr. Leslie Hedricks and Mr. Edwin Cieslak, the faculty members of the department, have cooperated with the Armour Research Foundation in biological problems.

ROY INTRODUCES POULTER



Roy Jacobson, president of the Western Society of Engineers formally introducing Dr. Poulter at the Snow Cruiser assembly last Friday. By Anderson and Raymond, Staff Photographers

WILCOX EXPLAINS "There Shall Be No LATTICE THEORY Night" Reviewed By TO MATH GROUP Mrs. O. P. Hazel

Professor L. R. Wilcox explained "Lattices in Geometries" to an attentive audience at the mathematics colloquium held on Friday, Nov. 29, at 10 a.m. in Room 101, Chapin Hall. Professor Wilcox was introduced by Professor Ford, head of the mathematics department.

Dr. Wilcox began his talk by pointing out the several different concepts of mathematics in common use. Among these are the theory of functions and the theory of relations. The latter trend of thought was the subject of Dr. Wilcox's address. There has been a great deal of recent work done in this field, including some by Professor Wilcox. Throughout his talk, the speaker was exceedingly thorough in supplying concrete examples of the technical terms, so that even the two rather awed freshmen who attended the lecture could comprehend the main points.

True or False

Some of the relations used in this work are of the same type as the common father-son relation, or similar everyday relationships. The relation, as defined by Dr. Wilcox, is a meaningful assertion.

ARTISTS UNITE TO GIVE ART DISPLAY

"Sell American Art to Americans" was the slogan of the National Art Week, November 25 to December 1. Artists and volunteer workers from art organizations, museums, colleges, and civic centers banded together to put a work of American art in every American home.

Throughout the city there were exhibitions, visits to galleries and studios, festivals, balls, and demonstrations; all to promote one idea: that of helping everyone to see and procure American pictures.

One of these exhibits was on display at the Lewis division in the art department. The pictures varied in theme from the daintiest of nature's flowers to the most massive of man-made bridges.

Marion Lukens, a former Lewis student, had several of her paintings on display at various exhibits. She graduated from McKinley High School and attended the Art Institute, as well as Lewis. She has been painting for nine years since leaving school and has received as high as \$75 for a single painting.

Mrs. Olive Pierce Hazel presented a review of the play "There Shall Be No Night," by Robert E. Sherwood, at a tea last Thursday. The tea was given by the wives of the Armour faculty who are studying drama.

In this play, which is now being presented in New York by Alfred Lunt and Lynn Fontaine, Mr. Sherwood has radically changed his attitude toward war as he formerly expressed it in "Idiot's Delight." The drama is extremely simple in form, expressing the significance and interpretation of great lives. Scattered here and there through the drama are delightful conversations alive with wit and friendliness. Mrs. Hazel quoted the essence of Sherwood's philosophy as shown in the play: "St. Paul has said, 'We glory in tribulation, knowing that tribulation worketh patience; and patience, experience; and experience, hope. We have been striving to eliminate tribulation, and as we have succeeded, we have deprived man of his experience and thus of his hope.'"

At the close of her talk, Mrs. Hazel urged her audience to see Lunt and Fontaine when they present the play in Chicago. Mrs. Hazel directs the girls' recreation department at Lewis and the Lewis Players. Her many years of experience in directing, studying, and seeing plays has given her a broad background from which to judge contemporary drama.

A.S.M.E.-

(Continued from page one)
53.3 per cent, obtained under test when the engine was loaded to 70 hp or about 75 per cent of its capacity.

Special Boiler

Also discussed in the pamphlet is the Knox boiler which was developed to supply steam to the Knox engine. The boiler employs a new principle for obtaining forced circulations. An impeller placed longitudinally in a lower drum exerts a pumping action which results in a uniform and rapid circulation through a number of riser tubes which comprise the walls of the combustion chamber.

Professor Winston will represent Illinois Institute of Technology at a meeting on Wednesday of the committee on Relations with Colleges. Professor Yellott is a member of that committee.

Pledgemaster Bob Barret Rules Pi Tau Sigma's Men

Shrilly blown whistles indicate that an active member has crossed the path of a Pi Tau Sigma pledge. This is just one of the rigorous rules that pledgemaster Bob Barret is vigorously enforcing.

On the ominous date of November 13, ten men were pledged to Pi Tau Sigma, the leading national mechanical engineering fraternity. On the even more ominous date of Friday, December 13, these pledges will be initiated into the fraternity. The ceremony will be held at the Swedish Club.

Included among the new pledges are four seniors. These men are John Sauvage, president of the A.S.M.E.; Lee Niems, a member of the orchestra; William Hahn; and George Martin.

Junior pledges are Jim Harnach and Bob Sullivan, who is top scholastically in the junior class. The four co-op pledges are Anthony Valaites, William Loben, Bill Olchowa, and Tom Walsh.

The apparel of these pledges is expected to include long gloves and a red neckerchief at all times. Besides, the pledges are expected to carry with them a ten inch monkey wrench.

Other duties of the pledges are obtaining signatures from the faculty members and the 20 active members of Pi Tau Sigma. They are also expected to compile a booklet on pertinent facts relating to the fraternity.

Last Thursday Jim Harnach was caught disobeying pledge regulations. As a penalty he was forced to present Professor Nachman with a big red apple in front of the class.

Three executive members of Pi Tau Sigma have just returned from the national convention in Iowa City.

Prof. Freud To Tell Of War By Chemical Means

Professor B. B. Freud, head of the chemistry department, is scheduled to give an informal lecture on "Chemical Warfare" to the students of chemistry at the Lewis College. The lecture will be held on Thursday, December 5th, at 3:30 p.m. in the chemistry lecture hall.

Dr. Freud, who is a colonel in the Chemical Warfare Service Reserve, has been actively engaged in army work for many years. He therefore has a wealth of practical experience to draw from.

The lecture by Professor Freud follows the one given by Dr. H. C. Brown of the University of Chicago, who spoke on the "Significance of Free Radical Reactions in Solution."

Psychological Museum Open For This Week

The Psychological Museum at the Lewis Division of the Illinois Institute of Technology will be open to the public Tuesday and Wednesday, December 3 and 4, at 7:30 p.m. and on Saturday, December 7, from 2:30 p.m. to 4:30 p.m. In addition to an exhibit, there will be a demonstration lecture by Dr. David P. Border at 8:00 p.m. on Tuesday and Wednesday and at 3 p.m. on Saturday. There will be no admission charge.

The symposium on *Psychology and Legal Procedure*, scheduled for December 6 at the Chicago Women's Club, has been postponed tentatively until the middle of March.

Lou Breese To Wave Baton At Senior Informal

You've heard Lou Breese when he's just "Breezin' along with a breeze." You've had his rhythm bubbling through your veins! Like it? Want more? Well, Lou's famous tempos will be bathing the floor of the Grand Ballroom of the Drake on the evening of December 20. Confidentially, if you like to splash around in this golden, super-smooth fluid you will enjoy a bit of top-notch fun.

Ah, Two Bands

Monotony? Certainly not from the music. Instead of just one band, the Seniors are having two, not one, masters of music. Along with Lou Breese's crack outfit, the Royal Troubadours will waft the breezes during "breathing" spells with "shoe shuffle" invigorating versions of sweet and mellow swing.

Now for a little history of the Breese outfit. Breese has the distinction of having scored the biggest individual triumph of any band in the East in the 1940 season. The New York World's Fair was the first to succumb to the Breese band in their four day assault on New York as a "Lou Breese" day.

"Gone to the Fair" Tops

Because of their outstanding radio and record arrangement and revival of the English Folk tune, "Come to the Fair," the job of making radio transcriptions advertising the Fair on some 550 radio stations in North and South (Continued on Page Eight)

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