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### 'Nursery Tech'

## Busy Days for U. Welfare Tots

Summer students in the College of Education really have a job on their hands training the nursery school and kindergarten children who toddle about the institute of child welfare during the summer. The children do everything from painting and singing to sleeping and eating and must be watched in each of the activities. Students in education helping to train the tots are finishing prerequisites for teaching nursery school and the first three grades.

To keep the youngsters busy during the time they are in school, a varied program is made out for them every day. When they arrive at school in the morning they are divided into different age groups, so the 2-year-olds in the nursery won't come under domination of the "experienced" children of the kindergarten.

After a morning inspection, an hour of outside play is provided for the 3- and 4-year-olds behind the institute. There they have access to a jungle gym, rocking boats, wheelbarrows and wagons. In the afternoon the children are fed cod liver oil and fruit juice. Another hour of play completes the morning activities, and is followed by a rest period before 11:45 a. m. luncheon.

Lunch is served in semi-cafeteria style; the children eat at assigned tables. An assistant also sits at each table to do necessary supervising.

A full stomach calls for a 2-hour rest period after lunch, and then the children are again prepared for more activity—sketching, painting, building with blocks or playing outside if the weather is not too warm.

Parents get the story of the tots' busy day when school closes at 3:45 p. m.

Under direction of John E. Anderson, professor in the institute and author of many books on child development, several groups study the children during the regular school session.

University units carry on work in the institute. Included are anatomy, chemistry, education, chemistry, psychology, sociology and speech.

The institute cooperates with the state board of health and with the general extension division and Ag divisions.



Children at the institute really enjoy the body-building requisites as evidenced by Elaine Pallum, top, as she pours herself a cup of milk in preparation for anticipated strenuous activity. Engineering seems to fascinate the youngster at bottom, left, as he tries to couple two toy engines. Well on the way to being an expert carpenter is Bobby Louder, bottom right, who industriously pounds the pegs in the board, then turns the board over and repeats the process.

## State Livestockmen Planning Ag Campus Meet for July 30

Pastures and pasture management will get top attention when Minnesota livestockmen gather July 30 on the Ag campus for the annual Cattle Feeders day sponsored by the Ag short course office and the division of animal husbandry.

John O. Christianson, director of Ag short course, announced that results of 3 years' experiment with several kinds of permanent pastures, alfalfa and Sudan grass will be shown at the session.

"We believe the program is broad enough to be of value to all livestock growers and that the only way to get correct information about different pas-

tures is to see them in mid-summer during the trying time for pastures and livestock," Walter H. Peters, chief of animal husbandry, said.

While the experimental pastures on the Ag campus have been grazed by beef cattle, the results are equally applicable to grazing by sheep, dairy cattle and horses, according to Mr. Peters.

Mr. Peters will discuss prospects for cattle and lamb fattening during the coming winter at the morning session.

Inspection of experimental pastures under the direction of Mr. Peters and Albert C. Aray,

associate professor of agronomy, will take place in the afternoon.

Cattle Feeders day has been held annually for 20 years. Last year's meeting was held at Springfield. Official attendance at the 13 short courses held so far this year is more than 7,500.

### Last Dance Friday

Students will dance for the last time from 8:30 to 11:30 p. m. today in the Union ballroom at the last Friday night dance of the term. Bob Owen's orchestra will play. Admission is by fee statements.

## War on Maggots Opens

### Orchard Invasion Predicted by U. Experts

Invasion strikes Minnesota a week later than predicted campus experts! Yesterday, while Russians braced themselves against German attacks, Minnetonka orchard men began an offensive against other raiders of the sky—apple maggots.

News of the attack was sent to newspapers and radio stations by the Ag campus news bureau yesterday after scouts in the Tonka area first sighted the emerging maggots.

Daniel M. Benjamin, research assistant in entomology, had warned farmers that the invasion might be expected about July 10. Mr. Benjamin is a member of a committee formed to prevent recurrence of last year's experience when orchard owners lost \$100,000 of a \$150,000 crop because of infestation around Minnetonka.

"So that Minnesota may remain an important apple producing state, we need systematic orchard sanitation including trapping, spraying and elimination of windfalls to keep the raider under control," Mr. Benjamin said. "Remember—\$100,000 is at stake."

The adult fly places eggs under the skin of the apple. When hatched, they feed on the apple until it drops to the ground. The maggot spends several days in the fallen apple before moving into the top soil. There it remains over winter to emerge as a fly next year.

Tonka scouts spotted the maggot flies just as they emerged from the soil to lay eggs.



# The Minnesota Daily

Summer Session Edition

University of Minnesota, Friday July 18, 1941

## Alaska's Warm, Students Learn

Alaska is a land of virgin forests, beautiful flowers, lush vegetation and native wildlife—not as many persons believe, a land of perpetual snow and ice.

That was revealed to the Convocation audience yesterday when Karl Robinson, noted lecturer and photographer, "defrosted Alaska" with a documentary, colored movie.

Presented as an interlude from the usual Convocation address on much weightier matters, Robinson's illustrated lecture gave a nature study of the southern, or "banana belt," of Alaska.

Mr. Robinson did not comment on Alaska as a defense outpost other than to mention that "Russia lies only 56 miles from the mainland of Alaska" and that Japan's nearest naval base is only 200 miles away.

Russia, he reflected, is at present too "busy with other matters" to be of any great danger.

IF A "HOSTILE FORCE" GOT IN ALASKA, HE CONCEDED, IT WOULD PROBABLY BE IMPOSSIBLE TO GET THEM OUT.

The fact that central and southern Alaska is quite temperate was shown by Mr. Robinson in his pictures. During the summer months long days and lots of rain do much to make it an ideal growing place.

Temperatures vary greatly, he said. "It may be 100 degrees warm in the summer, but in the winter it may drop to 78 below zero."

"Alaska has over 260,000 miles of coast line," he said. "Yet, the entire population is not over 70,000. THAT IS A RATIO OF ONE-TENTH OF A PERSON PER SQUARE MILE."

There are very few roads in Alaska, he pointed out. There is no road to serve the whole of Alaska or to connect it with the United States. Most of the transportation is provided by airplane and boat. The airplane accounts for about 1,000 pounds per capita, he said.

The topography of much of Alaska is still being formed, the picture disclosed. Glaciers in several of the valleys are quickly melting and moving out to sea. As early as 25 years ago a twin glacier—now a mile apart—was united, he reported.

At one glacier a new waterfou

## Jenkins Accepts Purdue Position

### University Professor To Become Dean

Appointment of Dr. Glenn L. Jenkins, professor of pharmaceutical chemistry, as dean of Purdue university school of pharmacy was announced yesterday by President E. C. Elliott of Purdue. Dr. Jenkins will assume his new duties next fall.

Research on the "legal standards of drugs" brought Dr. Jenkins the medal of the American Pharmaceutical association in 1936. A graduate of the University of Wisconsin, Dr. Jenkins has been professor of pharmaceutical chemistry at the University of Maryland.

Author of the textbook "Quantitative Pharmaceutical Chemistry," Dr. Jenkins now is writing another on organic medicinal chemistry. He also is author of several research articles on various phases of pharmaceutical chemistry.

"I dislike leaving Minnesota greatly," Dr. Jenkins said, "but I feel that my new position offers me a great opportunity."

## Goyas 'Caprices' To Be Explained

Goya's most famous series of paintings, "Caprices," will be explained by Violet Smith, University gallery commentator, on the art broadcast at 11:15 a. m. tomorrow over WLB.

Originals of the "Caprices" are at the Minneapolis Institute of Art.

CONVOCATION  
(Continued on Page 4)

OFFICIAL DAILY BULLETIN

Vol. XLIII

Friday, July 18, 1941

No. 141

**NOTICE TO DEPARTMENTS**  
**Medical Art Shop**  
 The Art Shop, 211 Institute of Anatomy, is now prepared to handle not only medical illustrating, for which it is primarily equipped, but also any other non-photographic illustrative material; notices, posters, maps, graphic figures, diagrams, engraving (certificates, resolutions, etc.), microscopic drawing, specimens; in a variety of techniques and media, for record, class-room use, lantern slide, or publication. Charges may be made to department budgets, or direct to individuals or organizations.  
 W. T. Middlebrook, Comptroller.

**Candidates for Degrees, July 24**  
 Seniors who expect to receive their degrees at the Commencement Exercises, Thursday, July 24, are asked to note carefully the following items of information:  
**ACADEMIC COSTUME**—Candidates for degrees will appear in Cap and Gown as usual. Those who have not purchased gowns may rent them at the Ferne Book Company, the Minnesota Co-op., the Professional College Book Store, the Union

**Upgren to Take Defense Position In Washington**



Arthur R. Upgren

Arthur R. Upgren, associate professor of mathematics, leaves August 1 for a defense job in Washington, D. C. He will be chief of the national economic unit of the department of commerce for a year.

**University Chorus To Give Hayden's Oratorio Tuesday**

In spring it rains; summer is hot; in fall leaves die; in winter it snows. This may sound like a yearly weather report, but it's not. The University summer chorus, assisted by the Minnesota symphony orchestra, will present Hardin's oratorio, "The Seasons," at 8 p. m. Tuesday in Northrop auditorium. The production is directed by Earle G. Killeen, music professor. Soloists are Robert Heath, Graduate student; Helen McKaig, Arts senior; and Sidney Suddendorf, Graduate student. The plot concerns Simon's farm during the seasons and the kind of weather during the seasons. There is no admission charge.

Book Store, and the Crane Student Supply Store. Arrangements should be made to secure caps and gowns on July 22 or 23. It is recommended that the women wear uniform white collars, gunmetal hose, and dark shoes; the men, white collars, dark ties, and dark shoes.  
**REHEARSAL**—On Thursday, July 24, at 9:00 o'clock the candidates will meet on the stage in the Northrop Memorial Auditorium to rehearse the formalities of the occasion and to receive final instructions.  
**PROCESSION**—At 10:30 all candidates in Cap and Gown will assemble on the stage of the Northrop Memorial Auditorium and will march from there to their places in the main hall.  
**TICKETS AND INVITATIONS**—Admission to reserved seats will be by ticket, except in the case of candidates for degrees. Candidates will receive tickets and invitations by calling at their college windows, Registrar's Office.  
**DETAILS OF PROGRAM**  
 9:00—Rehearsal of Commencement details, Northrop Memorial Auditorium.  
 10:30—Assembling of candidates on stage of Auditorium.  
 10:50—Procession to seats in main hall.  
 11:00—Program begins.  
 The Committee on University Functions, E. B. Pierce, Chairman.

**MINNESOTA MUSEUM OF NATURAL HISTORY**  
 "The Minnesota Museum of Natural History is open on Sunday afternoon from 2 p. m. until 5 p. m. There is no admission charge."  
 Thos S. Roberts, Director.

**THE UNIVERSITY OF MINNESOTA PRESS**  
 The University of Minnesota Press announces the publication (July 10, 1941) of **BUTTERFLIES: A HANDBOOK OF THE BUTTERFLIES OF THE UNITED STATES, COMPLETE FOR THE REGION NORTH OF THE POTOMAC AND OHIO RIVERS AND EAST OF THE DAKOTAS** by Ralph W. Macy and Harold H. Shepard, vii and 247 pp. 6x9 inches. Cloth, illustrated (45 halftones and 7 zincs; four 4-color plates inserted). Price, \$3.50.  
 M. S. Harding, Director.

**EXCURSIONS**  
**Friday, July 18**  
 This will be a guided trip through the Walker Art Gallery at Lyndale and Hennepin Avenues in Minneapolis, where there is an excellent collection of paintings of the masters and a special one-man show of the works of Mary Gale Hobbs. In connection with this trip, those who wish may visit the very interesting Idea House which is directly back of the Art Gallery (admission 10c). The group will leave the Administration Building at 2:00 p. m.  
**Saturday, July 19**  
 This trip will include an inspection tour of WCCO studios. The group will also visit on a broadcast the Physics Building program featuring most of the studio artists and a quiz among the audience. Tickets are required for admission but may be obtained free of charge at the Bursar's window in the Administration Building up to 4:00 o'clock Friday. The broadcast is from 9:45 to 10:30, but the audience must be seated by 9:30. People going on the trip may meet at the 17th Avenue entrance to the Administration Building at 9:30 or go directly to the studios at 6th Street and 2nd Avenue South in Minneapolis.  
**Monday, July 21**  
 Monday's excursion will provide an opportunity to see the much-discussed stonemason's back of the Physics Building and a guided tour through the Museum of Natural History on the campus. The latter includes eight large habitat group exhibits and smaller exhibits of the flora and fauna of the state. The group will meet at 2:00 o'clock at the 17th Avenue entrance to the Administration Building.  
 Ralph A. Piper, Director of Recreation.

**ADVANCE REGISTRATION FOR SECOND TERM NUMBER SESSION JULY 21-25**  
 An advance registration period has been arranged to make it possible for students in residence to register early and eliminate the necessity of registering with the incoming students on July 25, all arrangements that should materially shorten the procedure.  
**PROCEDURE**  
 1. Registration blanks and bulletins for all colleges except the Graduate School may be obtained at the Information Window, Admissions and Records Office.  
 Students who wish to receive Graduate credit for their summer work should report for registration at the Graduate School Office, 234 Administration building.  
 2. After the blank has been filled out completely, including personal information requested the blank should be signed by an adviser for the college in which you are registering. Approval of registrations may be obtained at the following offices: Science, Literature, and the Arts: Freshmen and sophomores—106 Folwell hall; Juniors and seniors—217 Folwell hall; Adult Special students—219 Administration building; Engineering and Architecture—133 Main Engineering building; Agriculture, Forestry and Home Eco-

nomics—203-D Administration building, University Farm; Law School—214 Law building; Medical School and Medical Technology—186 Medical Sciences building; Dental Hygienists—106 Medical Sciences building; Mines and Metallurgy—103 Mines building; Pharmacy—101 Pharmacy building; Chemistry—127 Chemistry building; Education—204 Burton hall; Graduate School—234 Administration building; Business Administration—127 Vinvent hall; Physical Therapy Technicians—Physical Therapy Department, University Hospital; Nursing—125 Medical Sciences building; Public Health—121 Millard hall; Public Health Nursing—121 Millard hall; University College—143 Physics building; General College—200 Westbrook hall.  
**Graduate registrations must be approved by the major department and then submitted to the Graduate School for final approval.**  
 Registration for more than 9 credits (10 cred. if two 5-cred. courses) must be specifically approved by member of the Students' Work Committee of the college concerned.  
 3. Turn in the approved registration blank at your college window in the Admissions and Records Office before 2:30 p. m. July 25 and receive a statement of fees.  
 4. Pay fees at Bursar's Office before 4 p. m. July 28, to avoid late fee. Students should not attend class until fees are paid.  
 5. Students should retain their fee receipts throughout the Summer Term and have them available to present to instructors and others upon request. The fee receipt must be presented for admission to the Summer Term social evenings and such other features as are later announced in the Official Daily Bulletin.

**NOTICE TO DEANS AND DEPARTMENT HEADS**  
 The registration for the second term of the Summer Session will be held on Monday, July 28, from 9:00 a. m. until 4 p. m. Students will call at the Information Window, Admissions and Records Office, as the first step in the registration, to obtain registration blanks, except graduate students who will obtain registration material at the Graduate School office. Students will then be directed to the various college and departmental offices, for registration. All blanks must have the approval of the college concerned before they can be accepted at the Admissions and Records Office. It is requested that a representative of the college and of the department be at the respective offices during the registration hours, so that all students may be able to finish registration on Monday.

**NOTICE TO ALL SUMMER SESSION STUDENTS**  
 All students attending first term who are not continuing for the second term, should turn in all university material or equipment such as library cards, books, lockers, keys, laboratory or gymnasium equipment before July 25.  
**REFUNDS ON GENERAL DEPOSITS**  
 The balances of the general deposits of all students, except Graduate School students, who attend the first term and are not registering for the second term of the Summer Session will be mailed to the home address of the student about August 15. Refunds for Graduate Students will be mailed September 15. Students who will not be at the home address given at the time they register for the Summer Session are requested to submit change of address at the General Information window of the Admissions and Records Office.

**GRADES FOR THE FIRST TERM OF THE SUMMER SESSION**  
 The grade reports for the first term of the Summer Session will be mailed August 8. Reports will be sent to the home address of the students as given on the registration blanks. Students who will not be at these addresses are requested to call at the General Information window of the Admissions and Records Office to fill out a change of address request.  
**ALL STUDENTS WHO WILL ATTEND THE SECOND TERM OF THE SUMMER SESSION, AND WHO WISH TO HAVE THEIR FIRST TERM'S REPORTS SENT TO THEIR MINNEAPOLIS OR ST. PAUL ADDRESS, ARE REQUESTED TO TURN IN, AT GENERAL INFORMATION WINDOW OF THE ADMISSIONS AND RECORDS OFFICE, A SELF-ADDRESSED AND STAMPED ENVELOPE.** This should be done not later than Friday, July 25. Students who wish to have transcripts of their Summer Session work sent to the State Department of Education, other institutions or agencies, should call at the Information Window at the Admissions and Records Office, to file a transcript request blank.

**NOTICE TO DEPARTMENTS**  
 Instructor's reports of grades for 1 term

**Seniors:**  
 The Best Looking  
**Caps and Gowns**  
 Come from  
**CRANE'S**  
 RESERVE YOUR GOWN NOW  
 Orders will be taken by phone. No deposit required.  
**CRANE'S**  
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 Senior Announcements  
 Graduation Cards

summer courses should be turned in to the Admissions and Records Office before 12 noon, Tuesday, July 29.  
 Departments should report charges to be deducted from the deposit accounts of 1 term Summer Session students by noon, Tuesday, July 29. As deposit accounts of students who do not return for the 11 term will be authorized for refund as soon as possible after the close of the 1 term, charges must be reported by Tuesday, July 29, to assure collection.  
 T. E. Pettengill, Recorder.

**COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS**  
**SPEECH CLINIC DEMONSTRATION**  
 There will be given a demonstration and explanation of stuttering by students in the Speech Clinic on Wednesday, July 23, at 3 o'clock in 308 Folwell Hall. All teachers who have cases of speech defects in their classes will find this demonstration both interesting and instructive.

**PROGRAM OF READINGS**  
 On the afternoon of Friday, July 18, there will be a miscellany of readings of poetry and drama at 3 o'clock in 308 Folwell Hall. All those interested in oral reading and declamation are invited to attend. Opportunity will be given for questions and discussion.  
 F. M. Rarig, Chairman.

**DEPARTMENT OF AGRICULTURE**  
 Division of Home Economics  
 The Adult Education and Nutrition classes will have an exhibit on Thursday, July 24, from 1:00 to 4:30 p. m. in rooms 304 and 305, Home Economics Building, University Farm. All interested in seeing

materials which may be used in the teaching of nutrition and other units to community groups are invited to attend.  
 Wylie B. McNeal, Chief of the Division.

**COLLEGE OF EDUCATION**  
 Dr. Dora V. Smith of the College of Education will present a selected list of books for children in the elementary school at Tuttle School, Talmadge and 18th Avenue S. E., at 1:00 p. m. on Tuesday, July 22. Anyone interested is invited to attend.  
 W. E. Peik, Dean.

**Delta Kappa Gamma**  
 Members of the Delta Kappa Gamma society for women in education will meet at one o'clock luncheon at the St. Paul Women's City Club Saturday, July 19. Miss Birdella Ross, state president, urges all members in attendance at summer school to join Minnesota members at this meeting. Reservations may be made with her at Colfax 4157.

The twelfth national convention of the society will be held at Hotel Nicolet on August 21, 22, 23, when more than 800 teachers will combine the business of the meeting with tours of Minnesota's summer resorts.

**Required Education Examinations**  
 The General English Qualifying Examination required of all students for registration in the senior year of the College of Education or for registration in special methods, student teaching, practice supervision or other laboratory courses will be offered on Monday, July 21, at 3:00 p. m. in Burton auditorium.  
 Charles W. Boardman, Chairman, Committee on Examinations.

☆ **Want Ad Column** ☆  
**Bring or Send**  
**Want Ads**  
 to  
**Daily Business Office**  
 Room 10-A, Murphy Hall  
 Call Extension 717 for Information

Words	1st Day	2nd Day	3rd Day
1-11	.25	.40	.40
11-17	.35	.45	.30
17-23	.50	1.00	1.00
23-29	.65	1.25	1.00

**All Want Ads Are Cash**

**FOR RENT—**  
 CONVENIENT to U. & downtown. 7-rm. house. Venetian blinds; oil burner, elec. equipped, screened porch, garage. Inquire 527 5th St. S. E.

**WANTED—**  
 WANTED—Teachers in all fields for good positions for fall. Minn. Teachers' Service, 1254 Plymouth Bldg., Mpls. AT. 1650.

**ATTENTION—**  
 WANT ride to New York after first session. P. O. 341 or call GL. 1444.

**Fun in the Sun**

**Going on a Vacation?**  
 Then drop in the Daily Vacation Travel Bureau in the Union.

For those who plan a vacation after the first Summer session the Daily is extending an information service. The Bureau will have complete information on tours, lakes and summer resorts. Stop in any day next week.

**Located in the Union Foyer**

**The Minnesota Daily**  
 The World's Largest College Newspaper  
 Summer Session Edition

Official newspaper of the University of Minnesota in Minneapolis, Minnesota

4 | Vol. XLIII No. 11 | Member Associated Collegiate Press, 1940-41

Distributor of Collegiate Digest

Published every Wednesday and Friday morning during the summer school sessions by The Minnesota Daily at the Commercial Press, 418 South Third Street, Geneva 2070.

Subscription rate is 75 cents for the summer anywhere in the United States and Canada. Single issue price 2 cents.

Entered as second-class matter at the postoffice at Minneapolis, Minnesota, under the act of March 3, 1879.

**EDITOR** LOWELL JONES  
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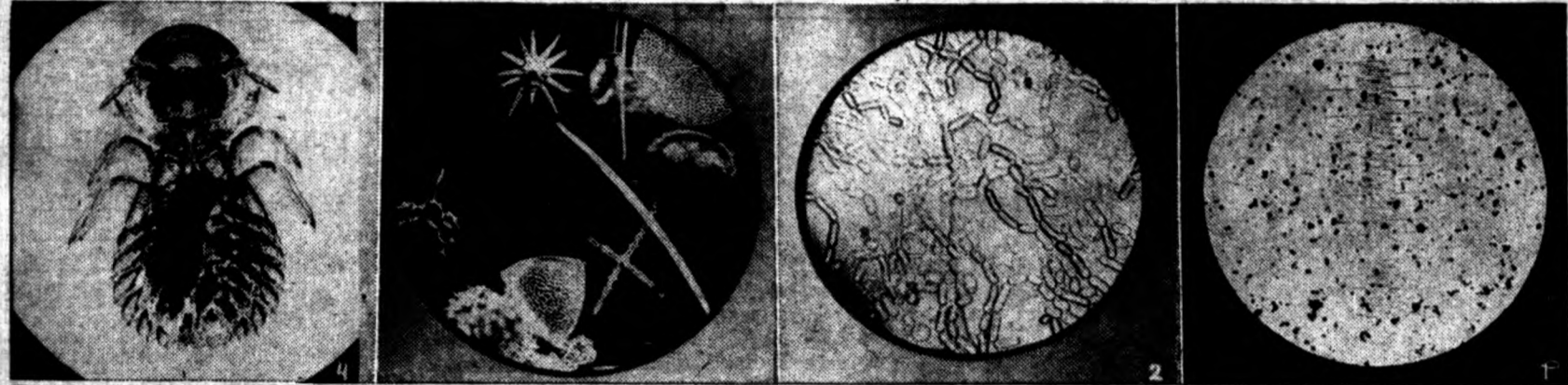
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**In the pictures . . .**

Selected at random from the files of the photographic laboratory, an all-University service enterprise, are the microphotographs shown on this page. Magnified from 100 to 2,000 times their original size, they show one type of work done at the lab.

1. Every time you breathe, you take in dust particles like those shown here, taken from a sample of ordinary air... The lines shown in the picture are scaled in 1-100 inch marks.
- 2 These wiggly chains shown here demonstrate the bacteria formed in stale milk.
3. Stars, crescents and crosses here are microscopic shell fish invisible to the human eye. The technical name for them is diatoms.
4. Not a cockroach, but an ordinarily invisible louse found on poultry is this leggy beast.
5. It looks like two eggs sunny-side up, but instead it is twin sheep in the early cell stage.
6. The two-cell stage of the developing sheep embryo is shown here. These selections are part of a group of 50 photographs of a growing sheep embryo made by the lab.
7. The six-cell stage of the embryo development.
8. Os it develops from the cell stage, the sheep begins to take little form.
9. The sheep looks like this 18 days after it all started.
10. These peculiar bott fly larvae were found in the nasal passage of a wild deer.
11. Known as *Toxascaris limbatha*, this "beast" is a parasite found in the intestine of some fur-bearing animals.

**Too Small for the Eye**

**Photo Lab Invades 'Mystery' World**

By Donabeth Johnson

Photographing strawberry leaves before they wilt, grasshoppers before they hop a way, microscopic poultry lice, model houses for architectural classes, brawny football players and coeds at Comstock hall—it's all in a day's work for the Ag campus photographic laboratory.

An all-University service enterprise, the photographic laboratory, for 14 years under direction of Manager Venning P. Hollis, is responsible for much of the photography used in University bulletins, booklets, publicity and campus art exhibits.

Although 60 per cent of its work is with the main campus subjects, the lab is located on the Ag campus to photograph conveniently subjects of a perishable nature developed there.

Among the 35,000 negatives filed in the lab are many microphotographs: photographs made of scientific subjects which formerly had to be drawn by hand.

Although not a new invention, it came into prominence only recently as a solution to the problem of keeping permanent accurate records of microscopic work.

"For all practical biological purposes," says Mr. Hollis, "the limit of magnification is 1,500 diameters. Further enlargement adds only to the magnitude but does not reveal any finer detail."

Speed cameras now make it possible to "stop" specimens which move too fast to be drawn accurately.

Equipment for this specialized method of photography is relatively simple, consisting of a powerful microscope connected to a plate camera with a ground glass reflector. Light for the process is provided by a powerful carbon arc lamp and reflected by mirrors into the microscope.

With the aid of color film, slides containing stained portions for special investigation are reproduced faithfully.

A dull brown weed pod, the size of a grain of wheat, magically appears as a beautiful flower when seen through the eye of the microphotographic camera. Seed pollen, through the same camera, takes on the appearance of a constellation of uncharted stars.

Last summer 25 microphotographs made by the lab were displayed at the photography salon at the New York fair.

An overhead camera, designed and built in the lab, has been copied by photographers in other parts of the country.

Astronomical photography is the



Photographic lab portraits go on exhibit too, sometimes in the Union fine arts room. Shown pointing out a good shot of the Union main lounge are Mary Ann Straus, Education senior (left) and Dale Conrad, Arts sophomore.

only type of photographic work for which the laboratory is not equipped.

Its services are available to all departments, faculty members and students of the University.

To cope with demands resulting from the 2,000 research projects carried on by Ag campus staffs, facilities have been expanded until nine employees, including three student assistants, are required to handle the work.

In past years it has taken novelty shots for photographic section pages of the Gopher.

Although the lab does not compete with commercial photographers its outstanding photography often has been recognized by outside organizations. Pictures taken of planes at Wold Chamberlain field for classes in aeronautical engineering resulted in repeat orders for the shots by Northwest airlines.

**Walker Gallery On Tour Today**

**WCCO Excursion Set for Tomorrow**

Two of the last three excursions planned for first term students will be today and tomorrow. Today's excursion includes a visit to the Walker art gallery and a trip through the Idea House in Minneapolis. Idea House is a completely furnished modern home behind Walker gallery. Those wishing to attend will meet at 2 p. m. at the Administration building.

Tomorrow's excursion will be a trip through WCCO's main studios. Excursionists will meet at 9 a. m. to see the 10 a. m. open house broadcast.

Tickets are necessary for the broadcast and are available at the Bursar's office until 4 p. m. today. There is no charge for the tickets. After the broadcast there will be a guided tour of the studios.

Monday's excursion will be a tour of the Museum of Natural History and the Physics department's atom smasher. Students will meet at 2 p. m. at the Seventeenth street entrance of the Administration building.

**WLB Quizes Faculty**

Faculty members are interviewed on the program "Meet the Faculty" at 5:45 p. m. Wednesdays on WLB. Questions about faculty members' families, personalities and achievements are asked.

**Judge Will Speak**

Chief Justice Ferdinand Pecora of New York supreme court will speak on the "I Am an American" program over WLB at 1 p. m. Friday. The program is transcribed.



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**Holy Trinity Episcopal**

Fourth street and Fourth avenue S.E.

Holy communion service will begin at 9 a. m. Sunday. "Transmuting Time into Life" will be the Reverend F. E. Drake's sermon topic. The Reverend Drake is guest speaker during July.

**University Baptist**

1219 University avenue S.E.

First Methodist and University Baptist churches will meet jointly at Baptist church at 10 a. m. Sunday. The Reverend George C. Fetter will speak on "The Abundant Life."

**Grace Lutheran**

Harvard and Delaware streets S.E.

The Reverend C. A. Wendell's sermon will be "Beyond the Laws of Nature." The service begins at 10 a. m. Sunday.

**Andrew Presbyterian**

729 Fourth street S.E.

First Congregational and Andrew Presbyterian churches will meet jointly in Andrew church at 11 a. m. Sunday. Guest speaker will be the Reverend Franklin Ward, executive secretary of the Minneapolis Church federation.

**University Lutheran Church of Hope**

Sixth street and Thirteenth avenue S.E.

"A Liberated Faith" will be the Reverend C. S. Thorpe's sermon topic. Services begin at 11 a. m. Sunday.

A Lutheran student outing will be sponsored by the Lutheran Student association at 4:30 p. m. Students will meet at Hope church.

**Sterns County 4-H Members Visit Here**

Money earned at a play given last Christmas brought a busload of 4-H club members from Sterns county to the Ag campus on a tour yesterday.

Reaching the Ag Administration building at 8 a. m. after a 120-mile trip, the group was conducted over the Ag campus by Everell A. Smith, field man and project supervisor of the School of Agriculture.

They also visited Wold Chamberlain field, the capitol, the Minnesota Historical society and the Ford plant.

**Music Hour Tuesday**

The last Union music hour of the first summer term will be from 11 a. m. to 1 p. m. Tuesday. Beethoven's Ninth symphony and Tschai-kovsky's piano concerto No. 1 will be played.



**TODAY**  
 8:00 a. m.—Class lecture.  
 8:45 a. m.—Paine prelude.  
 9:00 a. m.—Choral music.  
 9:15 a. m.—Health program.  
 9:30 a. m.—Sign off.  
 10:30 a. m.—Midmorn markets.  
 10:45 a. m.—Homemakers hour.  
 11:00 a. m.—Earl G. Latham.  
 11:45 a. m.—Bach cantata.  
 12:00 Noon—Strauss waltz.  
 12:15 p. m.—Newscast.  
 12:30 p. m.—Minnesota Symphony orchestra.  
 1:00 p. m.—I'm An American.  
 1:15 p. m.—Brahms lieder.  
 1:30 p. m.—Library headlines.  
 1:45 p. m.—Mozart sextet.  
 2:00 p. m.—Afternoon novel.  
 2:30 p. m.—Rachmaninoff piano concerto.  
 3:15 p. m.—News background.  
 3:30 p. m.—Minnesota Symphony orchestra.  
 4:00 p. m.—WLB workshop.  
 4:15 p. m.—University music department.  
 4:45 p. m.—News sidelights.  
 5:00 p. m.—Organ concert.  
 5:30 p. m.—Story book time.  
 5:45 p. m.—Poetic treasures.  
 6:00 p. m.—WPA orchestra.  
 6:30 p. m.—Dinner concert.  
 7:00 p. m.—Eye openers.  
 7:15 p. m.—Evening symphony.  
 7:45 p. m.—Brahms.  
 8:00 p. m.—Sign off.

**TOMORROW**  
 10:30 a. m.—Familiar music.  
 11:00 a. m.—Dr. O'Brien.  
 11:15 a. m.—Art gallery.  
 11:30 a. m.—Beethoven—4th symphony.  
 12:00 Noon—Verdi excerpts.  
 12:15 p. m.—Newscast.  
 12:30 p. m.—Sign off.  
 1:00 p. m.—Amber—Diamonds.  
 1:45 p. m.—Bach—Chaconne.  
 2:00 p. m.—Brahms—G Major sextet.  
 2:30 p. m.—Marriage of Figaro.  
 3:30 p. m.—Rustic Wedding symphony.  
 4:45 p. m.—Who said it?  
 5:00 p. m.—Afternoon melodies.  
 5:30 p. m.—Accent on youth.  
 5:45 p. m.—Seeing the Americas.  
 6:00 p. m.—Dinner concert.  
 7:00 p. m.—Sign off.

**MONDAY**  
 6:00—Early risers  
 6:30—Farm hour  
 7:00—Friendly road  
 7:15—Weather vane  
 7:30—Bulletin board  
 8:00—Class lecture  
 8:45—Chopin Polonaise  
 9:00—Schubert Unfinished symphony  
 9:30—Sign off  
 10:30—Midmorn markets  
 10:45—Homemakers program  
 11:00—Earl G. Latham  
 11:45—Berlioz Faust selections  
 12:15—Newscast  
 12:30—Luncheon melodies  
 1:00—Health program  
 1:15—Choral music  
 1:30—Library footnotes  
 1:45—Wagner Amfortas  
 2:00—Afternoon novel  
 2:30—Afternoon concert  
 2:45—Goldberg variations  
 3:15—News background  
 3:30—Mozart quartet No. 14  
 4:00—WLB bookshelf  
 4:15—Puccini excerpts  
 4:30—Debussy arioso  
 4:45—News sidelights  
 5:00—Chopin ballet  
 5:30—Story book time  
 5:45—Poet patriots  
 6:00—Dinner concert  
 7:00—Wendell White psychology  
 7:30—Pianist  
 8:00—Sign off

**TUESDAY**  
 6:00—Early risers  
 6:30—Farm hour  
 7:00—Sign off  
 8:00—Class lecture

**Two Seniors Will Present Recitals Monday**

Senior recitals by Phyllis Bailey, cellist, and Evelyn Hill, pianist, will be given at 8 p. m. Monday in the Music auditorium. Miss Bailey and Miss Hill will graduate during summer session and are music majors.

The program follows:  
 Arioso ..... Bach  
 Bourree I and II ..... Bach  
 Adagio Opus 28 ..... Bargiel  
 Poisson d'Or ..... Debussy  
 The White Peacock ..... Griffes  
 Prelude in B flat, Opus 28, No. 2 .....  
 Sonata in E minor, Opus 38 ..... Rachmaninov  
 Allegretto quasi minuetto ..... Brahms  
 Allegro

**Convocation . . .**

(Continued from Page 1)

was formed so recently that it poured out over a meadow. The grass was still growing.

Outstanding in the film are views of the salmon industry, the mainstay of the natives. The salmon runs are so huge, he pointed out, that in one small stream over 250,000 fish a day were counted.

Mr. Robinson, after speaking at the Convocation, said he is on his way to Alaska to continue work on documentary pictures. He will join his wife there, where she is already preparing to film the Yukon region during the fall season. He will stop on the west coast en route, he said.

**What's Doing**

**TODAY**  
 12:30 p. m. Union. Concert.  
 2:00 p. m. Walker Art gallery, Excursion No. 12.  
 3:00 to 4:00 p. m. Union. Coffee hour.  
 3:30 p. m. Union. Concert.  
 5:45 p. m. Union. Concert.  
 8:30 p. m. Union. Dance.  
**TOMORROW**  
 9:00 a. m. WCCO station, Excursion No. 15.  
 11:15 a. m. University gallery art broadcast.  
**MONDAY**  
 9:00 to 10:00 a. m. Union. Bowling instruction.  
 2:00 p. m. Museum of Natural History, Excursion No. 14.  
 2:00 p. m. Music auditorium, Lecture by Pepinsky.  
 2:00 to 4 p. m. 348 Union Music library.  
 3:00 to 4:00 p. m. Union. Bowling instruction.  
 3:00 to 5:00 p. m. Union. Bridge instruction.  
 8:00 p. m. Northrop auditorium, Dramatic recital.  
**TUESDAY**  
 11:00 a. m. to 1:00 p. m. Union. Music hour.  
 12:15 p. m. Union ballroom. Movies.  
 3:00 to 5:00 p. m. Union ballroom. Instruction in social dancing.  
 8:00 p. m. Northrop auditorium, Opera.

**Dr. Smith to Chicago**

Dr. Homer J. Smith, professor of industrial education, will read a paper on trade and technical education to the tenth annual convention of Administrators of Public and Private Schools Tuesday at the University of Chicago.

University of San Marcos in Lima, Peru, is the oldest university in the new world.

**Maud Scheerer Vacation Picture Ends Appearances Showing Tuesday At U. Monday**

Maud Scheerer, noted actress, will conclude her series of four appearances at 8 p. m. Monday in the Northrop auditorium by presenting Lillian Hellman's "Watch on the Rhine."

The play won the New York drama critics award for the best American play of the season. Set in a suburb of Washington, D. C., and Europe the play shows the contrast between the comfortable, easy-going American way of life with European living.

"Watch on the Rhine" is beautifully written and nobly conceived," Miss Scheerer said. "It avoids the topic of race prejudice which often mars such theme plays and gives the heroism of simple every-day human beings an inspiring thought these days."

Following the Aquatennial as a booster for Minnesota, a movie entitled "Minnesota Vacation Lands" will be shown at 12:15 p. m. Tuesday in the Union ballroom.

The movie, furnished by the state tourist bureau, will be presented by Vic Johnson of the bureau, who will lecture.

The movie was shown during the year and according to Harvey Stenson, program consultant, received much favorable comment. It includes pictures of Minnesota as a vacation country and pictures of Minnesota sports.

Admission is free. The movie is expected to last about 40 minutes.

**Stutterers to Show Clinic Wednesday**

The 15 stutterers enrolled in the summer session clinic will demonstrate the work done there at 3 p. m. Wednesday in 308 Folwell hall.

They will explain use of 8-foot mirrors in the clinic and purpose of asking strangers on campus silly questions.

Instructors are urged to attend because the stutterers will tell them how they wish stuttering cases to be handled in the classroom. Pictures will be shown to demonstrate improvement in facial expressions after training.

A 2,685-pound boulder of limestone, approximately 25,000 years old, serves as an "ornament" in the court of Hale house at Union college.

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