



POLIO INFECTED brain cells are constantly under the scrutiny of University neurologists who check for nervous system damage due to the disease. Here Joyce Lessard, lab technologist, examines a slide

of infected tissue under a microscope. She checks the slide to see that it has been prepared properly. Then it goes on to research experts who look for cell damage.

The Minnesota Daily

St Paul Minn
State Hist Society

Summer Session

MINNESOTA
HISTORICAL
SOCIETY

The University of Minnesota, Friday, August 29, 1952

Smith: Truth Needed In Education Process

Education has not gone far enough in its job of advancing human progress, Joseph F. Smith told last night's commencement audience.

The superficiality of present education is shown in people's lack of feeling at the "horror of the past 50 years," he said.

Smith, chairman of the speech department at the University of Hawaii, spoke at the second summer session graduating exercises of 375 persons, in front of Northrop auditorium.

AMERICA IS not "safely on the road of human progress" because too many "so-called educated persons care too little for the truth, or are too lazy to do anything about it," he said. He pointed to individual and governmental waste, the crime record and dishonesty of children, adults and corporations in the United States, as examples.

Familiarity with democratic freedom and its benefits has led to neglect of their protection, Smith said. He predicted that 40 per cent of the electorate will not vote in November's election because they are too lazy, "accept freedom too easily."

TO COUNTERACT his neglect, Smith said the education process must be revised, so it will contribute more completely to human progress. Three things which must be done, he said, are to get the truth, tell the truth and tell it effectively.

The basic technique of education, he said, is to arouse impulses. Therefore the business of teachers is to get "constructive responses." Education is only successful if it arouses impulses and responses which will advance human progress, he said.

"Adherence to a lie impedes human progress," Smith said, in proportion to the "number and zeal" of its followers.

"The Big Lie" is effective today because it is so skillfully told, he said. "Russia is telling a lie more effectively than we are telling the truth," he claimed.

Johnson to Leave 'Tough' SAB Job

One of the toughest jobs on campus will be vacated a week from today.

When Theron Johnson leaves as director of the student activities bureau on that day, he will stop worrying about drinking in sorority and fraternity houses, party raids and any other dubious activities in which students engage.

He also will leave behind some of the pleasanter experiences SAB has with University students, like the various campus charity drives and other responsible activities in which students participate.

JOHNSON WILL assume the New Jersey regional directorship of the National Conference of Christians and Jews. That is the nation-wide organization that originated the idea of Brotherhood week, an annual undertaking here by campus religious foundations.

The conference does human relations work in four main areas: labor and industrial, educational institutions, community and religious organizations.

The SAB director came to the University in 1945. From 1947 to 1949, however, he served as an educational director in Germany. Prior to 1945, he was principal of Winona high school.

Johnson says he has had no indication of his replacement.

What's Being Done Brains Aid in Polio Research

By Tom Snell and Dave Burrington

This is the second of two articles on polio research at the University.

Seven tubs of human brains are stored in a fifth floor room in Millard hall. The walls are lined with scientific equipment—microscopes, tubes, flasks and tangled apparatus. This room is one of many key spots of polio research on campus.

It is a neuropathology laboratory. Here technicians work with sections of brains taken from deceased polio victims. These brains may hold the secret to the question, "What happens when polio strikes?"

Each brain is carefully sectioned, or divided into

its 32 different areas, explained Lucille Axelson, lab technician. Tiny slices of tissue from each section are then enclosed in small wax cubes. These are studied by brain experts who hope to find out exactly how much brain damage results from polio and what corresponding part of the body is affected when polio strikes the nervous system.

"BY CORRELATING these clinical and pathological observations we can show scientists who are working on polio drugs the exact area and type of infection they must work with," explained Dr. Fae Y. Tichy, who is in charge of the neuropathology labs.

"This is the first step," she added. "You have to know what you're dealing with."

University neuropathologists discovered recently that when polio strikes, a certain part of the brain stem in the medulla (at the base of the brain) usually is infected with inflamed polio lesions. Thus they inferred that this area controls the respiratory system.

NOW THAT the area is isolated, other doctors are trying to find an artificial way of keeping the patient alive until this inflammation dies down.

They discovered additional lesions on victims who had been denied means of artificial breathing when polio hampered their respiratory system. These lesions were non-inflammatory. This indicates that patients denied respiratory aid—in the form of iron lungs or tracheotomies—suffer brain damage due to lack of oxygen. A number of doctors, however, still feel this type of aid is not beneficial.

Dr. Tichy examines every polio brain that comes to the neuropathology division. She verifies

Continued on Page 3

Report from Abroad

Spanner Is Reminded Of Wars During Trip

This is one of several articles the Daily is running this summer from correspondents overseas. The authors are studying under the auspices of the Student Project for Amity among Nations. The first part of this story, telling of the author's journey from Paris into Italy, appeared Tuesday.

By Joanne Shedlov

From Rome we went up to Florence, following many French people on vacation—as well as the Duke and Duchess of Windsor who had "accompanied" us at Monte Carlo and also at the Vatican museum. We depended on our French all the time in Italy—for directions, lodgings, food and in most other situations.

For instance one evening while sitting in a cafe on the main square in Florence, we noticed three separate mobs of men standing in tight clusters, talking heatedly. Naturally we wanted to know what it was all about, so we went and stood among them.

WITHIN a few minutes we found a Florentine who spoke French. He explained to us that this was a nightly occurrence, a friendly interchange of political discussion, that all differing opinions were represented, and that men like to talk.

In return we were asked who would win the coming U.S. election, what we thought of the candidates, the present administration, the Communists in the United States, and so on. We answered in single-sentence French, which is enough of an accomplishment in situations which take thought.

PEOPLE DELIGHT in warning visitors to Italy not to talk politics there but we found things no more than sociable.

In the Vatican museum in Rome we had seen that in ancient Rome political announcements were engraved on the walls. To me, this was quite parallel to the politics-on-the-street in modern France and also Italy. In Paris, campaign posters with long open letters, or arresting, thoughtful propaganda are to be read for blocks at a time, particularly where there is a long

wooden fence or wall amidst the buildings.

FROM ITALY we went to Salzburg, Austria, and through Germany before going back to Paris. En route we were reminded forcibly of two wars. At one city where we stopped overnight, we inquired at the first hotel off the highway for a room. The man had none. When we asked if we could find something further on in the center of the city, he answered, "Madame, there is no more center of the city." The rubble we soon saw made his statement dramatic enough.

We stayed with the army in Munich (with a colonel and his wife from Minneapolis). Munich was 80 per cent destroyed in the war, and they told us what it was like when they came three years ago, to have to walk in the middle of the street to avoid the stones and stench which dominated the area.

We had occasional feelings that we were right back in Minneapolis such as when we saw Robert Moore (assistant professor of English now on leave of absence) and several other Minnesotans at the opera. We knew we were not in the Midwest, however, when we drove in company with jeeps and khaki-colored trucks.

AS A RESULT of one of our flat tires we talked with a German man who spoke French well. He had been a Nazi, and a prisoner of the French. Thinking we were French, he talked freely with us as he changed our tire.

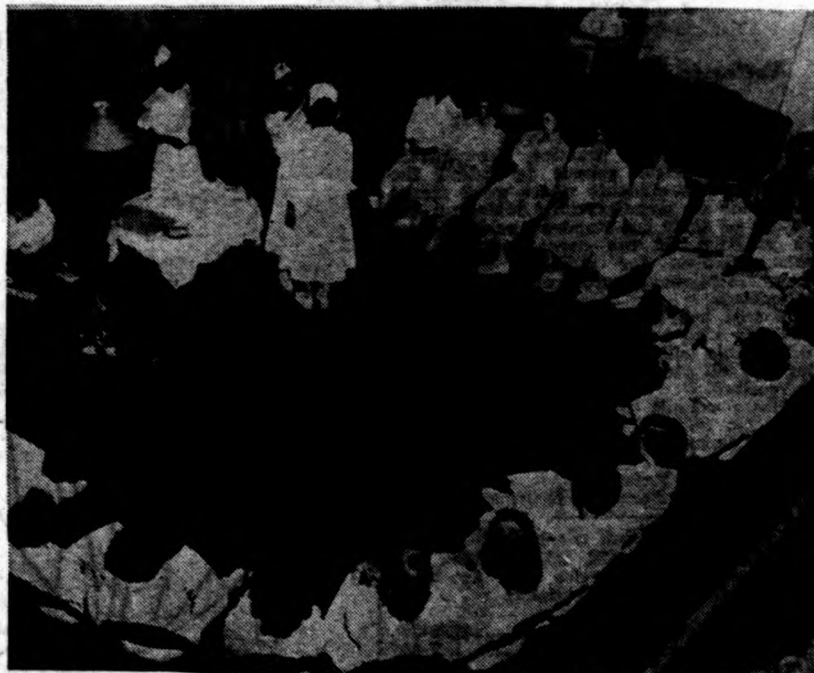
He said he was a Nazi because he was an idealist; that before

(Continued on Page 2)

Last Daily of Summer

This is the last issue of the summer session Daily.

The Daily's Welcome week magazine will be distributed on campus beginning Monday, Sept. 22. Regular publication of the Daily will resume Tuesday, Sept. 30, the second day of fall quarter. It will appear Monday through Friday from then on.



22 caps were placed on the heads of 22 student practical nurses Wednesday. The capping ceremony took place as the students received certificates marking the completion of a practical nursing course. About 150 parents and guests were present at the program and reception, held in the Powell hall lounge. The course takes four quarters. Students enter general college in the fall, taking part of their classes under the school of nursing, and gaining clinical experience in the hospital as well as taking academic subjects. During the two summer sessions their work is entirely under the school of nursing. Commencement exercises are held each summer. Completion of the course makes the student eligible to take the state practical licensing exam.

Those who received caps were LaVerne Day, Nera Dolan, Mary Ann Edberg, Angelina Ferrera, Joyce Friedstrom, Nannette Grill, Ariene Johnson, Carol Johnson, Delores Johnson, Janet Johnson, Barbara Koester, Elvina Kohonen, Barbara Kruger, Patricia Lang, Marion Maund, Marilyn Munson, Shirlee O'Brien, Dorothee Res, Margaret Shearer, LaVerne Sheldon, Rheta Thompson and Gertrude Weeber.

Spanner...

Continued from page 1

Hitler, people were poorer and suffered more; that the new regime had promised better things; and that the one mistake was his (Hitler's) unnecessary war.

"Why are the Germans and the French antagonistic to each other? It need not be," our friend continued. He is a businessman now, rebuilding his village with 40 or so other men. He had some criticism of American reconstruction in Germany—that the army is building its own buildings and movie houses, that the German people are too poor to do much rebuilding themselves and the Americans are doing it all.

BACK IN PARIS, we lunched one day with a Parisian businessman who wants to come to the United States to start a milk bar. He wants to leave France because "it is old, the people are tired and do not want to work much, do not want to clean up their ancient, tumbling villages . . . and the wars have killed the bulk of the young in spirit."

He feels that the "real freedom" is in America and not in France. We commented that we thought many Americans look at France as more free, because of the absence of pressures of conformity. He only answered that the real freedom is not in France.

In Paris the opera house, unlike Munich's, is not destroyed. It stands solid and black with age. But also in Paris are men like our luncheon companion, who see no more charm in the old.

3 Short Courses In September Set For Ag Campus

Three agricultural short courses from Sept. 8 to 13 on Ag campus have been announced by J. O. Christianson, director of agricultural short courses.

Approximately 50 men will take part in a course in artificial insemination of cattle from Sept. 8 to 13. Instruction will be given by members of the dairy, veterinary medicine and animal husbandry divisions.

A "30-Year-Club" will be formed Sept. 9 at the annual Swine Feeders' day. Those who have attended the event every year since it was started 30 years ago will be initiated into the club.

Included in the Feeders' day program will be reports on feeding trials, field observations on use of artificial sows milk, diet for hogs and swine research and breeding.

Among speakers will be E. F. Ferrin, animal husbandry chief; L. E. Hanson, professor of animal husbandry; R. M. Anderson, assistant professor of animal husbandry.

The thirteenth annual short course for Farm Bureau women will be held Sept. 10 to 12. Several hundred rural homemakers from all parts of Minnesota are expected to attend the short course which will include lectures and a smorgasbord dinner.

Union Hours

Union hours during the vacation period of Sept. 2 through Sept. 21 recently were announced. The building will be open from 7 a.m. to 8 p.m. during the week and closed on weekends. The newstand, Craft shop, bowling alleys and gameroom will be closed.

The Minnesota Daily

World's Largest College Circulation

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EDITOR . . . DAVE BURREINGTON
BUSINESS MGR. . . ARNOLD HED
Night Editor . . . Dorothy Drescher
Asst. Night Editor . . . Jim Reed

OFFICIAL DAILY BULLETIN

Students and staff are urged to read The Official Daily Bulletin as they are answerable for notices that affect them. Please note that notices must be received by 10 a.m. of the day prior to publication. All notices should be sent to the Department of University Relations, 218 Administration. Except for certain notices of campus-wide importance, notices will be printed only once.

Vol. 53 Friday, August 29, 1952 No. 155

General Notices
INTER CAMPUS TROLLEY
The inter-campus trolley schedule beginning Tuesday, Sept. 2, through Saturday, Sept. 27, 1952:
Leave Minneapolis Campus
7:05 8:40 Half hour schedule
7:20 9:10 beginning
7:40 Last beginning at 8:10 a.m.
7:55 car at 8:10
8:10 5:40
Leave St. Paul Campus
7:20 8:55 Half hour schedule
7:35 9:25 beginning
7:55 Last beginning at 8:25 a.m.
8:10 car at 8:25
8:25 5:55
There will be no service on Monday, Sept. 1, Labor day.
C. T. Johnson, Director, Service Enterprises.

THE UNIVERSITY GALLERY
Return of Original Loans
All original pictures borrowed from the University Gallery for use in campus offices must be returned to 315 Northrop during the week of Aug. 25 to 29.
Mrs. J. C. Lawrence, Director.

THE UNIVERSITY PRESS
ANNOUNCES PUBLICATION
on Aug. 9, 1952, of "Intergovernmental Relations in Social Welfare" by Ruth Raup. (No. 5 in the intergovernmental relations series). x plus 234 pages; 8 1/2 x 11. \$3.
on Aug. 8, 1952, of "Intergovernmental Relations in Employment Security" by Francis E. Rourke. (No. 6 in the intergovernmental relations series). vii plus 133 pages, 5 figures; 8 1/2 x 11. \$2.50.
on Aug. 19, 1952, of "Flour for Man's Bread: A History of Milling" by John Storck and Walker Dorwin Teague. xiv plus 382 pages, 151 illustrations; 7 x 10 1/2. \$7.50.
on Aug. 19, 1952, of "Behavior Difficulties of Children as Perceived and Judged by Parents, Teachers, and Children Themselves" by William Griffiths. (Institute of Child Welfare Monograph No. 25.) xii plus 116 pages, 16 illustrations; 6 x 9. \$3.
Margaret S. Harding, Director.

UNION HOURS

The building hours for Coffman Memorial Union for the period from Sept. 2, 1952, to Sept. 21, 1952, inclusive, will be as follows:
Building open: 7 a.m. to 8 p.m. Monday through Friday; closed Saturdays, Sundays, and holidays.
Billiard room: 7:30 a.m. to 4 p.m. Monday through Friday.
Terrace reading room and television lounge: 8 a.m. to 4:30 p.m. Monday through Friday.
Newstand, Craft shop, bowling alleys, record lending library, and gameroom: Closed.
Sunday, Sept. 21, 1952: The building will be open from 1 p.m. to midnight.
Gordon L. Starr, Director of Student Unions.

UNION FOOD SERVICES HOURS

Vacation period—Sept. 2 to 21 inclusive, 1952.
Cafeteria (ground floor)
Breakfast and snacks—7 to 10:30 a.m. (Monday through Friday)
Lunch—11:10 a.m. to 1:30 p.m. (Monday through Friday)
P.M. Snacks—Closed except on Wednesday, Thursday and Friday, Sept. 3, 4 and 5, from 2 to 4 p.m. (to accommodate American Accounting association convention)
Dinner—Closed except on Wednesday Sept. 3 from 5 to 7 p.m. (to accommodate American Accounting association convention)
Fountain Grille (first floor)
Will reopen for Welcome week starting Monday, Sept. 22.
Commuters lunch room (basement—west)
Will reopen for fall quarter starting Monday, Sept. 29.
Gopherette (ground floor)
Will reopen for fall quarter starting Monday, Sept. 29.
Party and banquet service (third floor)
Student organizations, department, administrative, faculty and employ groups always are welcome to make use of these facilities. Please make reservations at least two days in advance. Phone extension 6236, 6237, or 6693.
Shevlin hall lunchroom (northwest corner campus)
Reopens starting with lunch on Wednesday, Sept. 17. Service from 9:30 a.m. to 3:30 p.m. (Monday through Friday).
James Felber, Director, Coffman Union Food Service.

Notice to Deans, Directors and Department Heads

Subject: STUDENT EMPLOY SERVICE RATINGS
To follow usual practice, departments are requested to submit by letter the names of any students whose work record was poor or unsatisfactory including the nature of their sub-standard performance. In addition, if the department desires, commendations for students who have done exceptionally good work also may be submitted.

It will not be necessary to report on students who are performing satisfactory work. This will be assumed to be the rating for all students for whom no report is received.
Please submit this information before Sept. 15, 1952, to the department of civil service personnel, room 17, Administrative building.

W. L. Pedersen, Senior Personnel Representative.

Notice to Civil Service Staff

CIVIL SERVICE VACANCIES
University civil service jobs are open in the following classifications:
Male
Building Caretaker \$205-235
General Mechanic 267-307
Junior Engineer 302-342
Laboratory Technical Assistant 190-220
Senior Custodial Supervisor 292-332
Senior Engineer 463-523
Stores Clerk 170-195
Student Personnel Worker 302-342
Supply Supervisor 350-400
Teamster 215-245
Truck Driver 215-245
Female
Clerk \$170-195
Clerk Typist 170-195
Clerk Steno 170-195
Custodial Worker 170-195
General Staff Nurse (One-half time) \$1.45 per hour
Hospital Aide 170-195
Laboratory Technologist 272-312
Professor 190-220
Senior Clerk 205-235
Senior Clerk Typist 205-235

Secretary 205-235
Senior Secretary 262-302
Office Supervisor 282-322
Male or Female
Accountant 292-332
Junior Librarian 282-322
Junior Student Personnel Worker 282-322
Librarian 302-342
Senior Statistician 282-322
University employee desiring promotion or others interested in working at the University should contact the Employment Bureau, 17 Administration building, Minneapolis campus.
W. L. Pedersen, Senior Personnel Representative.

Notices to All Students

FALL QUARTER CLASS CHANGES
Correction:
Both Soc. 120 and Soc. 123 will be offered fall quarter. Soc. 120 will also be offered in the spring quarter, but not Soc. 123.
Jour 67, lab, III-IV, Ar
New Courses:
GC 8, section 3, I MTWThF, 145 Ph
GC 39, II MWF, 206 WeH

Hour Changes:
PE M 1a, Sec 4, VI MWF, CMU.
PE M 1a, Sec 5, V TThS, CMU.
PH 52a, III, MW, 12 Owre.
BA 51, III T, 100C.
BA 51, Sec 5, IV TTh, 307 VH.
BA 51, Sec 6, IV TTh, 2 VH.
Vernon L. Ausen, Supervisor of Room Scheduling.

The following students are participants in an approved University activity, namely the international contest in judging dairy products at Chicago, Ill., on Sept. 22 to 26:
Vernon H. Beddome
Robert E. Farrar
Richard D. Meyer

Prof's to Give Essays At Dentists' Session

Three University professors in the school of dentistry will present essays at the ninety-third annual session of the American Dental Association from Sept. 8 through 11 in St. Louis.

They are Dr. Douglas H. Yock, chairman of the division of crown and bridge, whose essay is titled "Indications for Use of Plastic Resins in Crown and Bridge Prosthesis;" Dr. Dorothea F. Radusch, associate professor of periodontology, "Effect of Well-Planned Diets on Periodontal Tissues;" Dr. Harold C. Wittich, chairman of the department of pedodontics, "Examination of the Child Patient."

The convention is expected to attract more than 12,000 persons. Besides the essay program there will be clinical demonstrations of new developments in operative dentistry and color television of surgical procedures.

Accounting Group Will Meet Here

The American Accounting association will hold a convention here Thursday and Friday.

Ernest A. Heilman, professor of accounting, will act as chairman of the meet. Richard L. Kozelka, dean of the school of business administration, also will speak.

Tony Psychogios
These students should consult with their instructors regarding work required in the classes they have missed. In accordance with the policy adopted by the Senate on Nov. 17, 1949, instructors should permit students to make up the work in the customary manner.

E. G. Williamson, Dean of Students.

Colleges of the University

GENERAL COLLEGE
Comprehensive Examination
The general college comprehensive examination will be given on Friday and Saturday, Aug. 29 and 30, in 211 Nicholson hall, according to the following schedule:

Part A, Friday, Aug. 29, 1:30 to 5:30 p.m.
Part C, Saturday, Aug. 29, 8:30 a.m. to 12:30 p.m.
Part B, Saturday, Aug. 29, 1 to 5 p.m.
Students who are new in the general college II summer session, students who are completing their third quarter of residence in the general college, and students who are candidates for the associate in arts degree at the August commencement, must take all three parts of this examination at these times. Students having questions should see Mr. Moon in room 106 Nicholson hall.
H. T. Morse, Dean.

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Minnesota Daily . . . bulletin board of the campus

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YOUNG man for general store clerking part time. Could drug. Bryant Ave. S. At 50th St. CO. 3144.

ORCHESTRAS
VELVETONES, DICK MARRONE, GL. 2108.
HAZY Williams—Combo and Orchestra. JU. 1204.

PASSENGERS WANTED
ONE passenger to San Francisco. '50 Conv. Merc. Leave Sept. 2. Write Box T, Minnesota Daily.
DRIVING to Denver after Sept. 1. Passengers wanted to share expense. Reply Box W, Minn. Daily.

RIDER wanted to or part way to Beckley, W. Va., through Cincinnati and Indianapolis. Share expenses and driving. Leaving Tues., Sept. 2. Call Bert, GL. 1467 or AL. 8279.

RIDES WANTED
GRAD wants ride to Wassau, Wis., on or about Sept. 1. Call Marie, DA. 4145 or leave info. in Box X, Daily office.
FROM 8701 Lyndale Ave. S. 1st hour by Univ. Employee. Jean Hollister, MA. 8158 Ext. 6370.

TYPING & MIMEOGRAPHING
MIMEOGRAPHING, offset printing, term papers. Betty Roman and Kuehn, 542 Lumber Exchange Bldg. GE. 4809.

FOR better typing, call Johnson, Minor correction, too. ST. 9767.
EXPERT thesis typing, low rates. Fast, accurate. Phone after 5 p.m. Helen, 821 North Dupont. AL. 9370.

SMALL typing jobs done. LL. 9576. Call between 10 and 2.
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EXPERT thesis and manuscript typing. Will call and deliver. Call MA. 9783, Irene after 6:00.
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FOR SALE TYPEWRITERS
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RENT, Repair, Sell, New and Used. Cranes, 324 14th Ave. S.E. GL. 8766

FOR SALE
COMPLETELY rebuilt microscopes, also microscopes repaired and serviced. M.L. 7678. Bower and Haack.
WEBSTER wire recorder complete with attachments. Reasonable price. ST. 9767.

ROSE cotton tapestry divan and easy chair. Good condition. \$35. Prior 1254.
WIRE recorder \$60 excellent condition RE. 3850.

LEICA Camera, model III f 3.5. \$76. Phone MI. 978.
PROSPECT Park—Stucco, 3 bedroom, oil heat garage. Early occupancy. LL. 2229 after Sept. 1.

APPLICATION PHOTOS
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SUSMAN STUDIO AT. 1919
704 Hennepin Ave.

RETOUCHED and neatly finished. Half doz. \$1.00. Doz. \$1.95. NEW HENNEPIN STUDIO, 803 Hennepin Ave. MA. 3778.

FOR RENT
COZY room for 2 girls. Near U. BR. 7317. 2110 4th St. S.
FURNISHED 2-room apt.—Sept. 1st. 3 adults. GE. 5964.

AG. Campus vic. completely furn. studio rm., plus real kitch. Shr. bath. Couple or 1 or 2 men students. Rent includes utilities, phone, dishes, bedding, weekly linen. \$60.00 for 2. \$65.00 for 1. Avail. Sept. 15.

STUDIO rm., twin bedroom plus full kitchen. Shr. bath with above. Rent includes same as above. 8 men students. \$30.00 each. Available Sept. 8th. FR. 5235—7 to 11 A.M. or keep trying. 2317 Princeton St., St. Paul.

SINGLE ROOMS fellows. Also lg. room for 2 or 3. 605 Oak St.
GIRLS—All the privileges of home . . . TV in your room, share kitchen. References required. KE. 4842.

WANTED TO RENT
APT. by grad student and wife near the U. Prefer furnished. Call NE. 3196—leave message.

INSTRUCTIONS
CARLETON'S FRENCH CLASS for GRADUATE STUDENTS will run nightly beginning Sept. 22. Call GL. 3156 even.

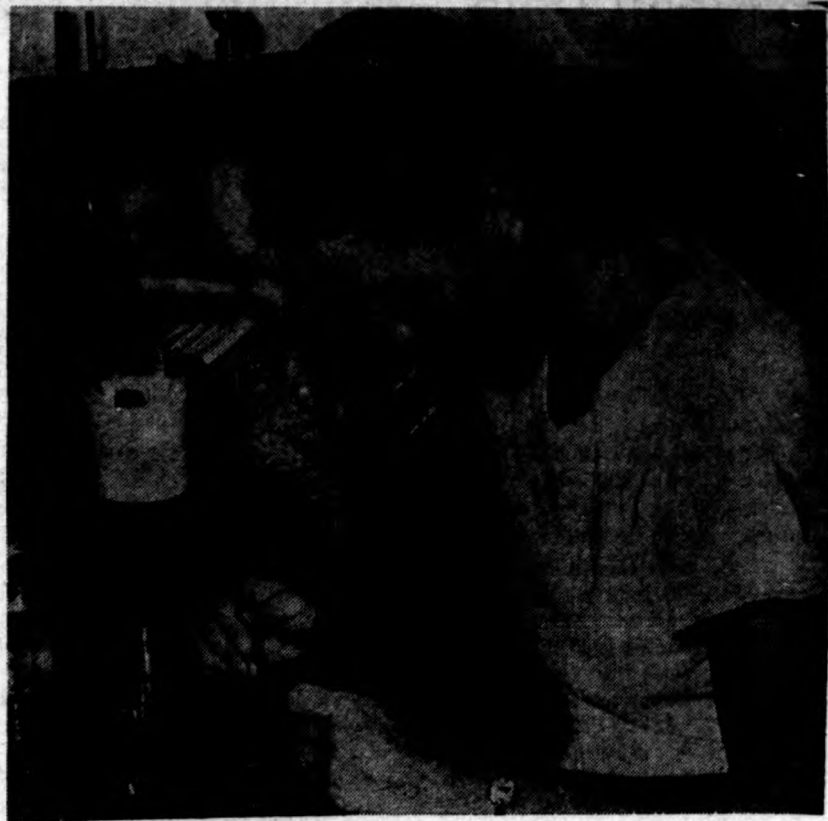
LOST AND FOUND
LOST: Fr. of glasses in brown cases. Call CH. 0596 after 5 or leave in the Daily office.

Phaedrus philosophized:
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Recipe for relaxation—take the contents of one frosty bottle of Coca-Cola. Delicious, too.

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MONKEYS have proven invaluable in polio research. Infected with polio virus, they react much the same as humans. In the picture at the left, a laboratory technician attempts to remove one of the lively animals from its cage. In the picture at the right, Mrs. Joanne Hermann, laboratory technologist, is slicing cells from the cornea of a rabbit's eye. These cells will be used by bacteriologists for research on different diseases, including polio. The cells are infected, then grown under controlled conditions. Pictured below is Dr. Fae Y. Tichy, neuropathologist, whose job is to correlate clinical and pathological observations, identifying the nature and area of infection.



Polio...

Continued from page 1

that the victim died of polio. Then it goes on to Dr. Samuel O. Cornwell, research associate, who ascertains the amount of brain damage. Heading the project is Dr. A. B. Baker, director of the division of neurology.

Major project of the doctors recently has been with the medulla where a lot of evidence of polio has been found. Next they will work with the cerebral hemispheres — gray and white brain matter.

DOWN THE HALL from the fifth floor neuropathology lab, other brains are being used for polio research. But these are living brains, the brains of monkeys which have been infected with polio virus.

These monkeys are the most valuable in the world to the bacteriology division. Since monkeys are fairly similar to man in their reaction to polio, bacteriology technicians can observe and treat infected monkeys and get much the same result as if they were experimenting on humans.

UNIVERSITY bacteriologists are primarily interested in developing polio tissue independently in

their labs. Here they can examine action of the polio virus in its most pure form—on each individual cell. They infect normal tissue with polio virus and keep it alive under artificial conditions.

Much of this tissue growth is done in a small metal room on the second floor of Millard hall under the direction of Dr. Jerome T. Syverton and Dr. William F. Scherer. Called the "sterile" room, the place is as germ free as science can make it.

Admittance to the room is through a shining metal door which is left open only for the time it takes to go through. Inside are ultraviolet bacteria killing lights, a dust precipitator that removes dust particles by electricity and ventilation that changes the room's air constantly. Walls and furniture are covered daily with a dust catching oil.

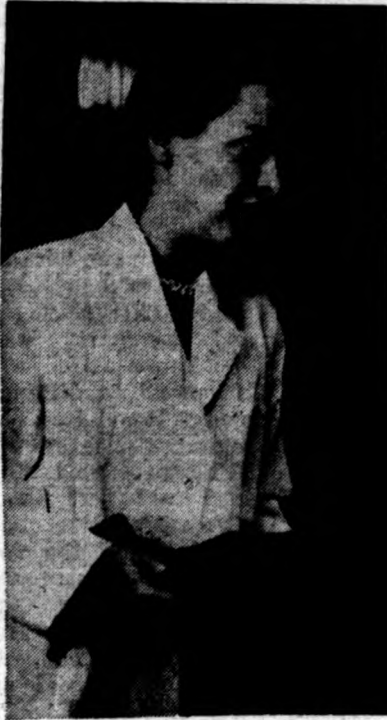
TISSUE INFECTED with polio can be grown without danger of becoming contaminated with bacteria here, explained Betty Garbutt and Mrs. Joanne Hermann, technologists working in the sterile room. They said the growths are started from a normal group of living cells, or explant, which is placed in a small tube along with plasma.

Here the tissue grows. When it reaches a certain size, parts of the new growth (but not the explant) are removed and started independently. This way the technologists carry on a strain of tissue infected with some type of polio. When they experiment with the tissue they know all reactions will be consistent, and not affected by any peculiarity found in some other tissue.

Results of bacteriological polio research will open the door to other polio research, explained Miss Garbutt.

"The end isn't in sight yet," she said. "We're still in the dark as to how polio can be cured or controlled. But everybody in polio research has got that in the back of his mind."

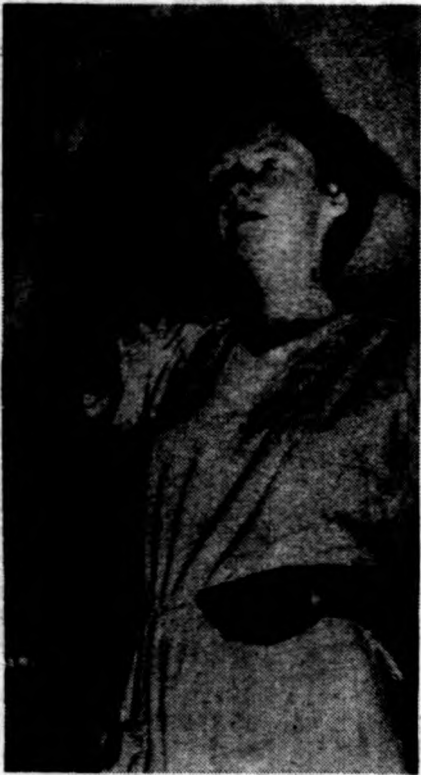
This seems to be the philosophy guiding all of those working on polio at the University. Nurses, epidemiologists, neuropathologists and bacteriologists all are striving to overcome their particular polio problems. They are constantly finding answers—milestones that they hope will lead to the announcement "We have conquered polio."



Program on Best Seller To Be Broadcast Today

A special program about the best seller, "Anne Frank: Diary of a Young Girl," will be broadcast on "Book Chats" over KUOM at 10:45 a.m. today.

Anne Frank and seven others hid from the Nazis during the occupation of Amsterdam, living for two years shut off from the world in a secret nest of rooms. The young girl's record of that period has been a best seller since it was published several months ago.



ANIMAL TISSUE is being grown constantly in the rollerdrum shown above. Betty Garbutt, laboratory technologist, examines skin cells grown from animal tissue. The original tissue was started as an explant over a year ago. How this tissue reacts to polio virus may reveal the secrets of polio to University doctors.

—Photos by Dave Burrington

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Football Data

Gophers Face Tough Opening Assignments

By Marv Weiner
Daily Sports Editor

The Gopher footballers begin practice Wednesday for the 1952 season with another difficult opening game facing the coaching staff.

Washington and California are the first two opponents, as they were last season. The Washington game Sept. 27 at Seattle precedes the home opener with Cal on Oct. 4. The Gophers again are the underdogs in both games.

Wes Fesler called 57 candidates for the two-a-day drills. Included in the list are 24 lettermen from the 1951 varsity plus three letter-winners from the 1950 squad. The Gophers are predominately sophomores with 27 second-year men on the call list.

THE GOPHERS meet the same opponents as last year with the exception of league champion Illinois who will be here Oct. 18. The Illini replace Indiana on the schedule.

The coaching staff, while satisfied with Gopher performances in spring practice and anticipating better all-around work from the squad, expects the league as a whole to be improved over last year. Observers of Big Ten ball say this will be the best season since the war from the standpoint of caliber of performance.

Several experiments still in the initial stages for the Gophers will be continued in fall drills. Most notable of these is the placing of end Bob McNamara in the first team regular safety position and fullback Ron Wallin at defensive right end on the A team.

FESLER BELIEVES McNamara will aid the Gopher secondary defense considerably if he plays up to his top form. End coach Butch Nash also thinks Wallin has good potential for his new job.

McNamara and Wallin also figure high in offensive planning.

One of the returned service men from the 1950 squad now appears to be the leading candidate for the middle spot in the five-man line the Gophers will employ as their basic defensive alignment. He is Stav Canakes, 220-pound senior from Minneapolis Southwest. Canakes was a tackle on the 1950 first string.

Sophomore Gordy Holz, a tackle in 1951, was number one in that position in spring practice but the coaches want to see what Canakes can do with the position, which is perhaps the most grueling assignment to fulfill on a football team.

SENIOR CENTER Scott Prescott has a nerve injury in his neck which will not permit him to play both ways this fall. Prescott's duties will be reserved to offensive work. He suffered the injury in spring practice.

Washington on pre-season speculation looks about the same as last year. The Huskies, however, have the great Don Heinrich back at quarterback and his steadying influence and exceptional passing could make Washington tougher than last year, when they beat the green Gophers 25 to 20.

Sally Luther Says Twin City Politics Non-partisan

By Wally Hanson

Because of some "strange flukes" in state law around the turn of the century, Twin Cities politics have taken a unique course away from political parties, said a Minneapolis woman legislator Wednesday.

Sally Luther, state representative from the thirtieth legislative district, spoke in the tenth and last lecture in the American studies "Culture in the Twin Cities" series.

Mrs. Luther explained that only state executive officials like governor, lieutenant governor, and secretary of state run on a party ticket. The result is "the strangely unused political party."

"Minnesota is the only state besides Nebraska where the state legislature is not party affiliated," she said.

THE "NON-POLITICAL" legislature came about in 1913 when, in an effort to block legislation to make local officials non-partisan, opponents of the bill tacked on a rider making the legislature also non-partisan. Much to the surprise of opponents, the bill passed and became law.

Some of the effects on the legislature, she said, are: "Legislators have their own personal machines. If they cannot get support from a party they turn to those who can give support. These include special interests like the labor unions, railroads and real estate groups.

"Legislators can run with the endorsement of one party, then in the legislature change to the other party. About 20 legislators have done so.

"THEY CAN IGNORE the party platform and the party leader. The last legislature found many of the Conservatives (Republicans) opposing Republican Gov. Luther Youngdahl's program while Liberals (DFL) supported it."

Mrs. Luther said that another effect of the "weak political party" is the independence of the voter. "In Minneapolis, for instance, a majority voted for Truman (Democrat), Judd (Republican), Humphrey (Democrat) and Youngdahl (Republican). Thousands of Minneapolis voters changed sides."

She said that lack of strong party machinery in the Twin Cities make it possible for almost anyone to run for public office.

Many times in the past, she said, the party's choice has lost out to an unknown in the primary election.



Sally Luther
Legislator speaks on politics

KUOM Series Will Star Claude Rains, Jefferson's Ideals

Film and radio actor Claude Rains will play Thomas Jefferson in a new series of KUOM programs on Jeffersonian democracy. They will be broadcast at 1:30 p.m. Tuesdays beginning Sept. 16 via the tape network of the National Broadcasters.

Presented in dramatic form, the 13-week series is called "The Jeffersonian Heritage."

The first program will dramatize Jefferson's part in drawing up the Declaration of Independence. Other Jeffersonian ideals dealt with are freedom of religion, the press, the mind, the American concept of revolution as opposed to the communist concept and universal education.

The programs are part of a project financed by a \$300,000 grant from the Fund for Adult Education established by the Ford foundation.

In addition to "The Jeffersonian Heritage," other coming series in the project include "People Under Communism" and "Ways of Mankind."

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