

The Summer Session Reporter

AND OFFICIAL DAILY BULLETIN
UNIVERSITY OF MINNESOTA



Vol. XVII

Friday, July 5, 1935

No. 13

Experiments on Heat Resisting Walls Carried On in U. Laboratories

Experiments, which if successful may devise a concrete wall that is resistant to both heat and cold, are being carried on in the experimental engineering laboratories of the University this summer. Details of the experiments and the ultimate aim of the work have been revealed by Professor Frank B. Rowley, director of the laboratories, who is in charge of the project.

Although no definite results are ready for publication, the experiments are proceeding satisfactorily, according to Professor Rowley. The work is being done by the University in cooperation with the Portland Cement association and the American Society of Heating and Ventilating Engineers.

Two methods of experimentation are being followed at present. One is by changing the aggregate or composition of the concrete and the other is by experimenting with insulation used in the core of the block. In the first method, blocks are being tested after being built from different types of aggregates, such as gravel, cinders, haydite and special aggregates such as incinerated clays. In experimenting with the insulation, members of the department are taking the concrete blocks and testing them after filling the cores with rock wool, vermiculite and other materials.

Two types of walls are the subject of the experimentation. One of these is of the sort built out of concrete blocks. The other type is the monolithic wall and differs from the first in that it is poured in one piece. In experiments with the monolithic walls different types of aggregates are being used to determine the best composition. The practicability of the insulation is also being tested by placing the insulation on the inside of the wall and by building a double wall and inserting the insulation between the two sections.

Similar experiments in the different branches of engineering research are being carried on in almost all of the various divisions of the laboratory, which includes facilities for experiment in hydraulics under the direction of Professor Lorenz G. Straub, structural engineering

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Trip Through Guatemala Newsreel Program Today

A pictorial journey through Guatemala and an educational short subject on "Network Broadcasting" will be added attractions of the third weekly free newsreel theater today in Northrop auditorium at 1 and 3 p.m. Four different newsreels are also included in the program.

CALENDAR FOR THE WEEK

July 5, Friday

- 1:00 p.m. News Reel Theatre: Paramount News; MGM News; Network Broadcasting (N. W. Bell); Fox News; Pathe News; Colorful Guatemala (MGM). Northrop Auditorium.
- 2:00 p.m.* Excursion No. 6: Ives Ice Cream Company.
- 2:00 p.m. Lecture: "Yucatan—Its Past Art and Modern Life" by Miss Edna Fowler, Assistant Professor of Home Economics. 150 Physics Building.
- 3:00 p.m. News Reel Theatre: Paramount News; MGM News; Network Broadcasting (N. W. Bell); Fox News; Pathe News; Colorful Guatemala (MGM). Northrop Auditorium.

July 6, Saturday

- 8:30 p.m.† Social Evening: Ballroom, Minnesota Union.

July 8, Monday

- 11:00 a.m. Lecture: "Enjoyment of Literature; V. 'Knowing the Characters'" by Maud Scheerer. Music Auditorium.
- 1:00 p.m. Lecture: "Teacher and Child Health" by Dr. Max Seham. Burton Hall Auditorium.
- 2:00 p.m. Lecture: "The Physical Basis of Music" by Abe Pepinsky, Assistant Professor of Music. 150 Physics Building.
- 3:00 p.m. Collegium Musicum: French Music, University Orchestra. Music Auditorium.
- 7:30 p.m.* Excursion No. 8: Zinsmaster Baking Company.

July 9, Tuesday

- 9:00 a.m. Institute for Clergymen and Religious Leaders begins. Music Auditorium.
- 1:00 p.m. Lecture: "Teacher and Child Health" by Dr. Max Seham. Burton Hall Auditorium.
- 2:00 p.m. Lecture: "A Museum of Living Fossils—Australia and Its Quaint Animals," illustrated, by Dr. Marie Bentivoglio. Burton Hall Auditorium.
- 8:00 p.m. Dramatic Recital: "The Petrified Forest" (Robert Sherwood), by Maud Scheerer. Northrop Auditorium.

* All excursion parties will leave the 17th Avenue entrance to Administration Building promptly at the time indicated.

† Restricted to Summer Quarter students.
‡ Purchase bus tickets at Bursar's Window.
§ Admission fee charged for plays and operas.

SOCIAL EVENING

The regular Saturday social evening, featuring bridge and dancing but minus the usual movie, will take place tomorrow night at 8:30 in the Minnesota Union. Mixer dances and other get-acquainted stunts will be used to get summer session students acquainted. More than 700 students and their guests attended the dancing last Saturday night.

20 Lutheran Educators Meet on U. Campus for Educational Conference

In an effort to map out a revised curricula in the light of present day conditions for Lutheran institutions of higher education, 20 Lutheran educators, representing colleges in New Jersey and nine states in the Middle West, are meeting on the University campus during the present summer session for a conference in Christian education.

Out of the conference is expected to come a comprehensive report recommending certain changes in curricula. These changes will be put into effect in the various Lutheran colleges and the results tested for one year, at the end of which time another conference will be held to set up permanent standards. The conference now in session represents all of the Lutheran groups in the Middle West.

Special facilities, including the privilege of attending classes without charge or registration fees unless individual members take courses for credit, have been extended to the group by the University. Dean Melvin E. Haggerty of the College of Education, Dr. Malcolm MacLean, director of the General college, and Professor Wesley Peik of the College of Education are the advisers of the group.

The conference is a part of the current effort of the Christian college of America to find themselves in relation to the present day environment, according to O. H.

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Geo. Fairclough Plays Third Concert Today

The third in the series of Friday afternoon summer organ recitals will be presented today from 4 to 5 p.m. by Professor George Fairclough of the music department in Northrop auditorium. The program follows:

- Prelude in Fague in E flat (St. Anne's) Bach
- Aria and Allegro (Concerto No. 10) Handel
- Colloquy with the Swallows (from Scenes from the Life of St. Francis) Bossi
- Scherzetto in F sharp minor Vierne
- Fantasia in A Franck
- "Love's Old Sweet Song" Arr. by Lemare "Du bist die Ruh" Schubert
- Sketch in D flat Schumann
- Overture to William Tell Rossini

The recital will be broadcast over the University radio station, WLB, and also will be open to the general public. Summer session students are invited to attend all of these recitals.

THE SUMMER SESSION REPORTER

OFFICIAL DAILY BULLETIN

NOTICE TO SUMMER QUARTER TEACHING STAFF

First Term Salaries

The salaries of members of the staff for the first term of the Summer Quarter will be paid on July 31, 1935.

W. T. Middlebrook, Comptroller

The opera, *Romance Road*, scheduled for 8:30 p.m. Friday, July 12, has been cancelled.

NOTICE TO HIGH SCHOOL DEBATE COACHES

Dr. C. E. Rudolph, a member of the President's Committee on the Cost of Medical Care, and a signatory of the minority report of that committee, will speak on the affirmative of the High School Debate Proposition at the Debate Coaches Round-table conducted by the Department of Speech, Monday, July 8, at 4:00 p.m. in Folwell Hall, Room 308. All high school debate coaches attending the Summer Session are cordially invited to attend.

Franklin H. Knowler
Department of Speech

EXCURSIONS

Ives Ice Cream Company

On Friday, July 5, the excursion will go to the Ives Ice Cream factory at 128 University avenue southeast. High lights of this trip will be the demonstrations of freezing, refrigeration, packing, delivering, etc. The excursion leaves the Administration Building at 2 o'clock. If you drive your own car, meet the group at the plant at 2:15.

Zinsmaster Baking Company

The excursion Monday is to the Zinsmaster Baking Company, 2900 Park avenue. The group will meet at the bakery at 7:30 p.m. Take a Chicago-Penn car going south, get off at Twenty-eighth, and walk two blocks west (to the right) and one block south. The party will be taken through the bakery by a guide who will explain the process of making bread.

CORRESPONDENCE STUDY WORK

Summer School students may find it advantageous to learn about the Correspondence Study courses which will place within their reach courses for full university credit to be taken now or even during their working year. Much time may be saved and credits gained by this method.

Consult the Correspondence Study Department desk in the lobby of the Main Library, N. A. Anderson in charge.

R. R. Price, Director,
General Extension Division

CORRECTION TO LEISURE HOURS

Dr. Harold D. Carter, Lecturer in Psychology, will give a lecture on multiple factor analysis on Tuesday, July 23 at 3:00 p.m. in the Music Auditorium.

Miss Acker's book review for this hour has been cancelled.

T. A. H. Teeter,
Assoc. Director Summer Session

CURRENT PROBLEMS IN EDUCATION

Dr. Max Seham will deliver the third lecture of the series on Tuesday, July 9, at 1:00 p.m. in Burton Hall auditorium. His topic will be "The Teacher and Child Health." The lecture is open to the public.

INTER-CAMPUS CAR

Summer 1935, June 17 to September 21, 1935, inclusive

LEAVING MINNEAPOLIS CAMPUS

7:25	10:25	1:25	4:25
7:55	10:55	1:55	4:55
8:25	11:25	2:25	5:25
8:55	11:55	2:55	5:55
9:25	12:25	3:25	
9:55	12:55	3:55	

LEAVING FARM CAMPUS

7:40	10:40	1:40	4:40
8:10	11:10	2:10	5:10
8:40	11:40	2:40	5:40
9:10	12:10	3:10	6:10
9:40	12:40	3:40	
10:10	1:10	4:10	

No cars on July 4, Independence Day and September 2, Labor Day.

Last car leaving Main campus at 5:55 p.m.

Last car leaving Farm campus at 6:10 p.m.

Experiment on Walls

(Continued from page 1)

under the direction of Professor C. A. Hughes, materials under the direction of Professor George Priester, highways under the direction of Professor Fred C. Lang, internal combustion engines under the direction of Professor J. Robertson, steam under the direction of Professor Charles F. Shoop, and heating and ventilation under the supervision of Professor Rowley.

A half dozen or more experiments in problems of hydraulics are being carried out under the direction of Professor Straub, most of them calculated to assist in river improvement projects. These include experiments to determine the amounts of erosion below dams by means of models and then to determine the needed changes in dam construction. Several model dams including the proposed navigation dam at Alton, Illinois and the power dam at Cedar Falls, Wisconsin are in the laboratory.

Other investigations into the transportation of sediment, the types and characteristics of river sediment and erosion prevention are also being carried on under the direction of Professor Straub. A study of the hydraulics of sanitary fixtures is being made at the present time in cooperation with the division of sanitation of the State Board of Health.

The main engineering laboratories are located directly in back of the main engineering building and are open to the general public, although no personally conducted tours of the building can be made. Several interesting and educational experimental devices are contained in these laboratories.

July 11 Convocation Speaker to Discuss Training in Diplomacy

One of the few women in America who lecture on social, political and economic problems of contemporary interest will come to the University of Minnesota campus on Thursday, July 11, to speak at convocation. She is Miss Melinda Alexander, author and student of contemporary affairs, and her topic will be "Shall we establish a United States Academy of Statecraft?"

Miss Alexander has recently returned from a trip around the world in which she visited most of the nations that were the locale of front page events during the last year. During her travels she succeeded in interviewing many of the prominent figures in Europe.

Politics has been a career for Miss Alexander since she was old enough to vote. At that time she organized a new political party in Montana which polled two-thirds as many votes as the state ticket which carried the election. Later she was secretary to the speaker of the house in the Montana state legislature and attended the national party conventions.

Miss Alexander studied law at Northwestern. Following her studies in law she was associated for a time with several outstanding lawyers in investigations into industrial and banking enterprises. Among other activities she participated in the investigation of the "Bank of the United States."

For the last several years she has traveled extensively in the United States and Europe studying the trend of world affairs. From her observations in the storm centers of Germany, France, Great Britain and Russia, she has written two books and in completing a third. The two previously written were "Machine Gun Diplomacy" and "Russia in the Second Decade."

In the midst of the current public discussion of world problems, Miss Alexander is specializing in those problems peculiar to the United States. Although she declares that she does not believe in a policy of magnificent isolation, she does believe that weighty consideration given to our own domestic concerns will afford the solution to our national problems.

When in London a few months ago Miss Alexander interviewed George Bernard Shaw by preparing a list of questions which she submitted to him. After scanning them, Shaw declared: "It has taken me 43 years to write the answers to your questions—and they are to be found in the library section of the British museum."

The final convocation speaker on the first summer session program will be Clark Hallam, foreign correspondent in the Far East for several years with both the British and American newspapers, who will speak on Thursday, July 18, on "Are we at war in the Orient?"

Hallam has travelled more than 50,000 miles throughout China, and has interviewed government officials and nobility in most of the countries of the Far East. He is a graduate of Columbia university and a former student at the University of Wisconsin.

Institute for Religious Leaders Will Convene On U. Campus July 9

An Institute for Religious Leaders, sponsored by the University for the purpose of offering a short orientation course in problems of contemporary society, will open on the University campus Tuesday, July 9 and will continue through Friday, July 19.

The course is designed especially for clergymen and lay leaders interested in the adult education movement in both urban and rural communities. It will consist of a series of three lectures each morning by University faculty members on sociology, psychology and economics. The ten afternoons will be devoted to lectures and laboratory study of agricultural problems on the University farm campus in St. Paul.

Training in adult education leadership will be one of the primary purposes of this institute, according to present plans. Close co-operation between the University and all religious organizations will be stressed. Outlines and bibliographies of the subjects sufficient for several months further study will be made available during the course of the lectures. A fee of \$5 will be assessed for the entire course.

The program for the first day, Tuesday, July 9, includes registration, three morning lectures and an afternoon session on the University farm campus. Registration and payment of fees will be handled by the registrar's office beginning at 8 a.m. The first lecture will come at 9 a.m. when Dr. Arthur W. Marget, professor of economics, will talk on "Monetary policy." He will be followed at 10 a.m. by Miss Elizabeth Gardner, assistant professor of sociology, who will discuss "The social worker in child care and protection of the child." At 11 a.m. Dr. Charles Bird, professor of psychology, will lecture on the "Fields of modern psychology."

At 2 p.m. on Tuesday, Walter C. Coffey, dean and director of the department of agriculture, will lecture on "Organization and contacts of the Department of Agriculture." This lecture will be followed by a trip of inspection around the farm campus.

Other faculty members who will speak during the 11-day program include Dr. George Vold, associate professor of sociology; Dr. Charles Bird of the psychology department, Dr. Oscar B. Jesness, professor of agricultural economics, Professor Emerson P. Schmidt of the School of Business Administration, Dr. Robert W. Murchie of the sociology department, Dr. Clifford Kirkpatrick of the sociology department, Drs. Frederick J. Alway and Clayton O. Rost of the soils division of the Department of Agriculture, and Dean Russell A. Stevenson of the School of Business Administration.

Dr. Herbert K. Hayes, professor of

agronomy and plant genetics, Dr. Calvin F. Schmid of the sociology department, Dr. Frederic B. Garver, professor of economics; Professor Walter H. Peters of the Department of Agriculture, J. B. Fitch, professor of dairy husbandry; Dr. Roy G. Blakey, professor of economics, Dr. E. C. Stakman, professor of plant pathology, Dr. J. Warren Stehman of the School of Business Administration, Dr. William A. Riley, professor of entomology, Dr. Henry Schmitz, professor of forestry, and Ralph King of the zoology department.

HILL REFERENCE LIBRARY

The Hill Reference Library of St. Paul most cordially invites the members of the faculty and students of the University of Minnesota to use its facilities. It occupies the Market Street end of the general library building and it is open to the public daily from nine a.m. to ten p.m. throughout the year, and Sundays from two to six p.m. October 13, 1935 to June 14, 1936. The Library has installed a complete air conditioning system to operate the year around.

Helen K. Starr
James Jerome Hill
Reference Library

SUMMER SCHOOL LIBRARY SCHEDULE

July 3.....	7:45 a.m.-6 p.m.
July 4.....	CLOSED ALL DAY
July 27.....	8 a.m.-12 m.
July 29-August 30 (except Saturdays)	7:45 a.m.-6 p.m.
Saturdays.....	8:00 a.m.-12 m.
August 31.....	8 a.m.-12 m.
September 2.....	CLOSED ALL DAY
September 3-27 (except Saturdays)...	8 a.m.-5 p.m.
Saturdays.....	8:00 a.m.-12 m.
September 28.....	8 a.m.-12 m.

Frank K. Walter,
University Librarian

Lutheran Educators Meet

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Pannkoke of Quitman, Georgia, who is here as chairman of the group.

"The colleges have met certain issues in the past, such as the mastery of nature. But through it all they have lost sight of the larger issue in education—namely, that you not only work in a profession, you live in life," he declared.

Colleges represented at the conferences included Dana college, Blair, Nebraska; Midland college, Fremont, Nebraska; Wittenburg college, Springfield, Ohio; St. Olaf college, Northfield, Minnesota; Augustana college, Sioux Falls, South Dakota; Augsburg college, Minneapolis; Concordia college, Moorhead, Minnesota; St. Paul Luther college, St. Paul; Gustavus Adolphus college, St. Peter, Minnesota; Luther college, Decorah, Iowa, and Upsala college, East Orange, New Jersey.

The present University of Minnesota conference represents the second in the group's history. A similar conference took place at the University of Chicago two years ago.

Long Record of Service Places Campus Station Among Radio Pioneers

Backed by a long experience in the field of radio broadcasting, the University radio station WLB goes on the air daily during the summer session with an educational program addressed to a potential listener audience of 2,000,000 persons by its own estimate.

Although no consistent survey has been made as to the WLB radio audience, some indication is to be found in the average of 1,000 letters per year, which are mailed in by listeners without the particular incentives usually offered by commercial broadcasting stations. Music, lectures, foreign language lessons and an occasional sports broadcast of a Minnesota athletic contest compose the bulk of the programs.

The University of Minnesota engaged in broadcasting at long ago as 1920, when it inaugurated a radio telegraph broadcast service twice daily containing market information of interest to agriculture. The University began its radio telephone broadcasting service in the spring of 1921, broadcasting weekly concerts in addition to the regular daily market and weather reports.

In the early days before broadcasting stations were assigned letter calls, this work was carried on under the call letters, 9XI, but since the assignment of call letters to broadcasting stations, the University has used the call letters WLB.

At present the station is administered by a radio committee composed of Richard Price, chairman, W. T. Middlebrook, Dean Walter C. Coffey, E. B. Pierce, Dr. William A. O'Brien, James Webb and Frank McCormick. This committee rules on all questions of policy. Haldor B. Gislason is the director of programs and Burton Paulu is assistant director and announcer.

After a brief interval in 1922, when the University discontinued the station and used its facilities to aid a new commercial station, the regular operation of the transmitter was resumed. Program support to the original commercial station and two succeeding commercial stations in the Twin Cities was continued until the fall of 1927 when limitations and restrictions existing in the use of a commercial station outlet proved to be such a handicap in the presentation of educational material that the policy of transmitting authorized University programs over commercial stations was dropped.

Studios are now maintained in the Electrical Engineering building, where the main studios are located, the Music building and Northrop auditorium. Facilities make broadcasts possible from almost every building on the campus.

It is estimated that the potential listener-audience of the station is about 2,000,000. This figure is based on the population of the area within 100 to 150 miles of the Twin Cities.

The function of "humanizing knowledge" has been stressed several times as

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THE SUMMER SESSION REPORTER

Yucatan Is Subject Of Lecture Today

Yucatan will be the subject of today's discussion in the series of afternoon lectures being presented throughout the first summer session. "Yucatan—Its Past Art and Modern Life" will be discussed by Miss Edna Fowler, assistant professor of home economics at 2 p.m. in room 150 Physics building.

Other afternoon lectures on the calendar include "The Physical Basis of Music" by Professor Abe Pepinsky at 2 p.m. Monday, July 8, in room 150 Physics building; "A Museum of Living Fossils—Australia and Its Quaint Animals" by Dr. Marie Bentivoglio at 2 p.m., Tuesday, July 9, in Burton hall auditorium; "Interior Australia—Its Water Supply and Industry" by Dr. Bentivoglio on Thursday, July 11 at 2 p.m. in Burton hall auditorium; "Relation of Music and Mathematics," Professor Abe Pepinsky, 2 p.m. Monday, July 15, room 150 Physics building.

"The Barrier Reef" by Dr. Bentivoglio on Tuesday, July 16 at 2 p.m. in Burton hall auditorium; "The Significance of Paul Elmor Moore" by Professor Louis I. Bredvold on Tuesday, July 16 at 3 p.m. in the Music auditorium; "Australian Aborigines" by Dr. Bentivoglio at 2 p.m. Thursday, July 18, in Burton hall auditorium; "Two Themes from Santayana" by Alburey Castell on Friday, July 19 at 3 p.m. in Burton hall auditorium; "Analysis of Tone Color" by Professor Abe Pepinsky on Monday,

July 22 at 2 p.m. in room 150 Physics building; "Natural Resources of Australia" by Dr. Bentivoglio on Tuesday, July 23 at 2 p.m. in Burton hall auditorium, and "The Growth of a Nation," also by Dr. Bentivoglio at 3 p.m. Wednesday July 24 in the Music auditorium.

Long Record of Service

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one of the major purposes of the station. "The universities and colleges of the country have in the radio a new and efficient instrumentality for 'humanizing knowledge'" the University officials declared in a statement to the Federal Radio Commission in 1931. "Many student of the social sciences are now stressing the importance of making available to the masses large bodies of information which heretofore has been within the walls."

The largest response in letters from listeners ever to be received by the station came from interest in Esperanto. Student debates, programs of the University Child Welfare Institute and music appreciation periods all elicit responses from listeners, according to station officials. A "Music Appreciation" course for the benefit of high schools, when announced by letter drew replies from over 200 schools in the state, over 100 of which were interested in setting aside an hour every week for this broadcast.

In the fall of 1930, announcement was made that there was a possibility that the modern language broadcasts might be stopped during that year. Two hundred letters were immediately received requesting the continuance of the broadcasts. When one of Minnesota's senators spoke over the station several years

WLB PROGRAMS

WLB, the University of Minnesota radio station, will offer the following regularly scheduled programs during this week. WLB broadcasts on 1,250 kilocycles, 239.9 meters, using 1,000 watts power. The studios are located on the third floor of the Electrical Engineering building.

Program for the Week Beginning July 7, 1935

Monday, July 8, 1:00 p.m.—University Farm Hour; 1:15 p.m.—Musical Varieties
Tuesday, July 9, 7:00 p.m.—Bridget Hayes—"Correct English"; 7:15 p.m.—World Affairs in Brief; 7:30 p.m.—Light Overtures
Wednesday, July 10, 1:00 p.m.—Songs; 1:15 p.m.—Chorus
Thursday, July 11, 10:45 a.m.—Child Welfare Institute; 11:00 a.m.—Pastoral Symphony; 12:00 noon—Grieg Sonata; 7:00 p.m.—Newscast; 7:30 p.m.—"Modern Poets," Dr. John Walker Powell
Friday, July 12, 1:00 p.m.—University Farm Hour; 1:15 p.m.—Musical Varieties; 4:00 p.m.—Organ Recital, G. H. Fairclough; 7:00 p.m.—Schumann Symphony
Saturday, July 13, 7:00 p.m.—Overtures; 7:45 p.m.—Tschaikowsky

ago it was estimated that his listeners numbered from 50,000 to 100,000.

Included in the various types of programs offered by WLB are the following: agricultural information, informative topics, state forums, music appreciation for schools, organ recitals, university symphony orchestra, debate and public discussion, modern languages, and promoting contact with the people of the state.