

Botany Greenhouse: Year Around Beauty, Fragrance in a Workshop

By Harriett Keller

A land of fragrance, beauty and color twelve months of the year—it exists in the heart of the University of Nebraska campus and is open to everyone. It is perhaps better known as the Botany Greenhouse.

The greenhouse, which is maintained by the University botany department, is situated in the midst of the campus' staid classroom buildings and contains plants of various sizes and types.

These are not for beauty alone, however, for the chief purpose of the greenhouse is to serve as a workshop for student research and classroom work.

Glen Drohman, who has been caretaker of the greenhouse for 4 years, says "There isn't anything magic about raising plants—they take care. It takes interest and lots of regular care to make plants grow, not a green thumb."

He listed constant pruning and turning of plants, fertilizing, spraying for bugs, potting plants and preparing soil as among the many duties to which he attends.

The greenhouse is divided into several sections. The room at the far eastern end is known as the general botany room and here can be found a general variety of plants which are used for class study. It contains "around 56 types of flowering plants," according to the caretaker.

Plants in this room range from the simple forms to the more advanced forms of plants such as snapdragons and composites. Drohman explained that "We keep this room a little bit cooler, so that the plants don't grow as rapidly. This keeps them in more usable form and they stay in bloom longer."

He said, "It is pretty bare

in the hottest part of the summer, but all during the school year there are flowers."

Drohman explained that the majority of the plants in this room are watered twice daily except for the cacti which are only watered twice a week. Among the plants found in here are a euphorbia tree almost 6 feet tall, a bird of paradise plant, which can only be grown indoors in this climate,



BOTANIST AT WORK—A Botany student Greenhouse serves as a workshop for student research and classroom work.

and many common flowering plants such as the geranium, stalks and petunia.

Tropical Conditions
At the opposite end of the block-long structure is the high-humidity room which contains plants grown in tropical conditions. Most of the plants in this room are tender and cannot be raised out of doors, according to Drohman.

He explained that the room should be kept at a constant temperature of between 75 and 80 degrees. This is done through the use of vents on the top and sides of the building to adjust the temperature,

and steam heating equipment for heating the greenhouse.

Among the many plants in this section of the greenhouse are ferns, orchids, African violets, a banana tree and a Hawaiian tea plant.

The building also contains equipment for research, including photoperiod cabinets. Drohman explained that the use of these cabinets was to

tall, while under an 18-hour day it is in full bloom.

Other research projects are conducted by students at the greenhouse among which are researches on grasses, such as trying to spread a smut to prevent the healthy growth of crabgrass.

In a section of the building known as the plant physiology house, experiments are being conducted in applying a

show the effect different day lengths have on plants.

Daylight Periods

There are four of the cabinets, each with a different daylight period and containing the same types of plants. To illustrate the use of the cabinets, Drohman displayed petunia plants.

Under the eight-hour day, the petunia grows squatly and well-branched and shows signs of buds. In the broken-night atmosphere (a light going on for an hour at midnight), it is taller and has less branching. With a 14-hour day, it is blooming, long and

growth stimulant of gibberlic acid to poinsettias to observe the effects.

Plant Nutrition

Experiments in plant nutrition are also underway in which various nutrient solutions lacking different nutrients are applied to the same type of plants and the effects noted and observed.

All students in botany classes use the greenhouse as a supplement to class work as well as for research projects. The present house is the second one on the campus and was completed ten years ago. It is located just south of Besy Hall.

All-Staters Plan Eight Concerts

The All-State program will end this week with eight major productions by the 319 Nebraska high school students attending the fine art course this summer.

The schedule includes an orchestra concert, given last night, a chorus concert Tuesday, a band concert in conjunction with the Union Artist series on Wednesday, a play Wednesday, an operetta Thursday night, debates Friday morning, a play Friday afternoon and a final concert Friday night.

Times and locations of the various programs are listed in the Nebraska Summer Calendar.

One of the main highlights during the week will be tomorrow night's band concert under the direction of H. Joseph Owens, assistant professor of music at the University.

Featured with the band will be Audun Ravn, assistant piano professor at the University, who will play Grieg's "Concerto in A Minor" and Gershwin's "Rhapsody in Blue." Mr. Ravn has been a guest soloist with major symphony orchestras in the east and midwest and has returned to his native Norway to play with the Bergen Symphony.

The public is invited to the 8 p.m. concert and to all other All-State performances. FM radio station KFMQ will broadcast the Tuesday and Wednesday evening All-State performances live from the Student Union.

Union Series Schedules Comedy Film

"When Comedy Was King," a peep into the past at the art of slapstick, custard pie and the wild chase, will be presented Thursday at 7:30 p.m. in Love Library auditorium as part of the Union's Film Classic series.

Produced by Robert Youngson, this film is an anthology of over 2,500 reels, edited and provided with music and sound effects in a narrative by Youngson.

It took Youngson 18 months to reduce the mountain of film to eight reels. "When Comedy Was King" assembles a cast including Stan Laurel and Oliver Hardy in a scene from their 1928 masterpiece, "Big Business." Others included are Charlie Chaplin, Buster Keaton, Harry Langdon, Ben Turpin and Fatty Arbuckle.

A second film, Buster Keaton's famous "The General" will also be shown in the program Thursday evening.

National Defense Loan Deadline Approaches

The deadline for National Defense Student Loan applications for the first semester of the 1961-62 school year is July 15.

All applicants, including former borrowers, must submit the necessary forms before this time to the Office of Scholarships and Financial Aids, 111 Administration building.

Nebraska Summer Calendar

- Tuesday June 27**
4 p.m., bridge lessons, Union Indian suite.
6:30 p.m., Nebraska Federation of Exceptional Children, picnic.
7:30 p.m., All-State chorus concert, Union ballroom.
- Wednesday June 28**
8:30 a.m., Nebraska Federation of Exceptional Children, conference.
12 noon, Phi Delta Kappa luncheon, Union.
12 noon, Pi Lambda Theta luncheon, Union.
7:30 p.m., All-State play, "The Young and the Fair," Howell Memorial Theater.
8 p.m., Union Artist Series and All-State band concert, Audun Ravn pianist, Union Ballroom.
- Thursday June 29**
2:30 p.m., Union tour of Lincoln Air Force Base, S Street entrance of Union.
7:30 p.m., All-State operetta, "South Pacific," Union ballroom.
7:30 p.m., Union film classic, "When Comedy Was King" and "The General," Love Library auditorium.
- Friday June 30**
10 a.m., All-State debates, Union auditorium.
1:30 p.m., All-State play, "Love's Old, Sweet Song," Howell Memorial Theater.
5 p.m., All-State banquet, Union ballroom.
7:30 p.m., All-State final concert, stadium steps, 13th and U.
- Monday July 3**
Classes not in session.

Far Eastern Institute Presents Films on Asia

The Far Eastern Institute has scheduled a series of weekly films on Asia for the remainder of the summer session. They will be presented every Wednesday at 1 p.m. in the Love Library auditorium.

The films, selected for their pictorial and educational quality, are of general adult interest and of special value for teachers of social studies and world history, according to Dr. Robert K. Sakai, director of the institute.

The first showing in the series, tomorrow, is open free to the public and will include two films, "Sampan Family" depicts a segment of life in south China. "Japan," the second film, shows in color a survey of Japan's economic and social life.

On July 5, Edward R. Murrow interviews the Burmese premier U Nu in a documentary entitled "Burma, Buddhism and Neutralism."

The program for July 12 includes two films, "Indochina," a timely film on Laos, Cambodia and Vietnam since the Geneva truce agreement of 1954, and "Cheewit Chowna," a colorful portrayal of life in Thailand.

"Three Brothers," to be presented July 19, traces the



THERE'S NOTHING COZIER THAN CUDDLING UP TO A NICE WARM PUPPY ON A COLD MORNING...



MY MOTHER DIDN'T RAISE ME TO BE A HEATING-PAD!



KUON-TV Summer Programming

"Four Religions," an hour-long program at 8 Thursday night, will discuss Hinduism, Buddhism, Islam and Christianity.

Host for the show, noted English historian Arnold Toynbee, will show worshippers in the performance of their faith and will explain and illustrate the differences and similarities in the four religions.

A special feature of the program will be film sequences taken abroad of each religion showing characteristic rituals of the faith.

A complete list of KUON-TV programs for the week follows:

Tuesday, June 27
6:30 a.m. Evening Prelude: One half hour of classical dinner music.
6:30 p.m. Meet for Reading: Mortality 2: Readings from Sorcerer's Apprentice.
7:30 p.m. Great Plains Trilogy: The Settlers and the Land. This program comments on the rapid settlement of the Great Plains after the Civil War. Nebraska developed an advertising campaign to break the "Great American Desert" myth and Nebraska became a melting pot.
9:30 p.m. Family Doctor: "Cancer detection." Cancer is a scary word. In this excellent program Dr.

Cherkasky calmly helps the viewer to put cancer in a realistic and reasonable perspective by analyzing its causes and describing its treatments.

Shelter for Man: "The City" How does a city grow? What gives it its shape? Mr. Long answers these questions by describing four different kinds of cities: the walled city, Paris; the trading city, New York; the planned city, San Francisco; the city planned to house the government, Washington, D.C.; and the city that grew as the result of industrialization, Pittsburgh.

Heritage: "The Future of Philosophy." Dr. Adler states his philosophical beliefs and reaffirms his belief that philosophy is everyone's concern, because it is an essential tool for understanding all things that cannot be explained by science.
National Goals: See Monday, 7:30 p.m., Channel 12 for details.

Harshaw Plays Live: Harvey Harshaw, professor at the University of Nebraska, will play excerpts from the Second Sonata for live. Live is a highly individualistic composer of the twentieth century.

Wednesday, June 28
5:30 p.m. Evening Prelude: One half hour of classical dinner music.
6:30 p.m. Vistas With a Sculptor: Sculpture is called "Martha's Guide" demonstrates, as he models a relief of a basin in clay how sculpture is related to the architecture of the wall sculptures of the cave man, through the Egyptian, Assyrian, Babylonian and Greek to the present.

Great Plays in Rehearsal: "Julius Caesar" by William Shakespeare. Mr. Salmon and his cast continue to explore the character of the tragic figure in great dramatic literature and the sources of tragedy. Emphasis is on the relationship between drama and cinema through the play.

Biblical Masterpieces: "T & E. Elsha Cycle." Dr. Boyd explains that the miracles in the Bible can be properly understood only in terms of the times in which they were recorded. The miracles reflect an attitude toward prophesy and miracles that the modern reader must understand if he is to appreciate much of the literature of the Bible.

Family Doctor: See Tuesday, 7:30 p.m., Channel 12 for details.
Inspiring Mind: "Origins of the Inspiring Mind." Dr. Healy discusses the stimulation and development of the inspiring mind. Why are some men in what factors influence them? Can one be trained to relate or develop an inspiring mind?

Thursday, June 29
5:30 p.m. Evening Prelude: One half hour of classical dinner music.

Inspiring Mind: See Wednesday, 7:30 p.m., Channel 12 for details.

Ordeal by Fire: "The Hoody Seven Days." The Premier Campaign began on April 4, 1962, a campaign of blunder, confusion, frustration and defeat. The Army of the Potomac under its new commander George McClellan, is manuevered back by the Confederates under Lee and Jackson.

Shelter for Man: See Tuesday, 7:30 p.m., Channel 12 for details.

Religions: This program examines Hinduism, Buddhism, Islam, and Christianity. It seeks to make the less familiar of these beliefs more familiar by showing worshippers in the performance of their faith and it explains visually the differences and similarities in the religions.

Die Deutsche Stunde: This program is one of a series developed to present background of conversational German. In the program, an American is invited to the home of a German family. As he learns the basics of the language, an eye is cast on the very different situations in which the American finds himself are very routine.

Friday, June 30
5:30 p.m. Evening Prelude: One half hour of classical dinner music.
6:30 p.m. Die Deutsche Stunde: See Thursday, 5:30 p.m., Channel 12 for details.

Heritages: See Tuesday, 7:30 p.m., Channel 12 for details.
Reading Session: See Monday, 7:30 p.m., Channel 12 for details.

Finer Arts Quartet plays Bartok: See Monday, 6:30 p.m., Channel 12 for details.
Casals Master Class: See Monday, 9:30 p.m., Channel 12 for details.

Sunday, July 2
5:30 p.m. Evening Prelude: One half hour of classical dinner music.
6:30 p.m. Finer Arts Quartet plays Bartok: Continues with the same basic format used in the Finer Arts Quartet Plays Beethoven members of the Quartet perform selections from Bartok's "Quartet No. 2, Opus 51."

The Anatomy of Revolution: Featuring Crane Brant, McLean Professor of Ancient and Modern History, "The Varieties of Revolutions" begins with a lesson in the concept concerning various revolutions of the past century and then turns into a calm analysis outlining the various types of revolutions.

Backyard Farmer: How to care for those spruce and summer lawns and gardens and how to deal with other specific problems that are part of "backyard farming" are topics on this program.
Reading Session: "Automation—Peril or Progress" affords an interesting topic of discussion for Arthur J. Goldberg, U.S.

Secretary of Labor and Mr. Edgar P. Kaiser, Chairman of the Board of Kaiser Industries Corporation.

Casals Master Class: One of the most important questions for the cellist to decide is when to stop playing, especially when to stop the sound at the end of a dimension, the diminished sound which gradually, Mr. Casals says, fades into the infinite. Mr. Casals discusses and student Kai Newhouse performs Beethoven's Sonata Number 4 in C Major, and Opus No. 10, Number 3 (last movement).

SPECIAL NOTE: There will be no program July 4.

Art Galleries Set Summer Hours

The University Art Galleries in Morrill Hall will be open to the public 2-5 p.m. daily during the summer months, according to Director Norman Geske.

The University State Museum, located on the first floor and basement of Morrill Hall, will continue its regular hours, 8 a.m. to 5 p.m. weekdays and 2-5 p.m. Sundays and holidays.

Planetarium shows will be held at 2:45 p.m., Monday through Friday; 8 p.m. Monday, Wednesday and Friday; and 2:30 and 3:45 p.m., Saturday, Sunday and holidays.

Theater Tryouts For 'Hippolytus'

Tryouts for the University Theater's play, "A Sword for Hippolytus," to be presented July 31 and August 1, will be held next week.

"A Sword for Hippolytus" is a new play with a large cast and is written by George Williams. Tryouts are open to any University student and will be held in 201 Temple building July 5-7 from 3-5 p.m. and 7-9 p.m. each day.

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