

Skylab astronaut to deliver UN-L lecture

Col. William R. Pogue, the pilot of Skylab 4, the third and final manned visit to the Skylab Orbital Workshop, will deliver the annual Avery Lecture at UN-L Tuesday, July 29.

Pogue's talk, open to the public, will be at 12 noon in the Centennial Room of the Nebraska Union. The astronaut, whose Skylab 4 flight was the longest manned flight—84 days, 1 hour and 15 minutes—in the history of manned space exploration, will also participate in a seminar to be held at 10:30 a.m. July 29 in the Union for students and teachers doing graduate level teaching and research in space education.

The Avery Lecture Series in which Pogue will participate is sponsored through a fund in the name of Samuel Avery, chancellor of the University from 1908 to 1927.

One of 19 selected
Col. Pogue was one of the 19

astronauts selected by the National Aeronautics and Space Administration in April, 1966. He served as a member of the astronaut support crews for the Apollo 7, 11 and 14 missions.

The Skylab 4 Mission was launched Nov. 16, 1973, and lasted until Feb. 8, 1974. Pogue was accompanied on the record-setting 34.5 million mile flight by Gerald P. Carr, commander of the mission, and Dr. Edward G. Gibson, science pilot.

They successfully completed 56 experiments, 26 science demonstrations, 15 subsystem detailed objectives, and 13 student investigations during their 1,214 revolutions of the earth.

Used sensor array

They also acquired extensive earth resources observations data using Skylab's earth resources experiment package camera and sensor array. The astronauts also logged 338 hours of operation of the Apollo Telescope Mount which made

extensive observations of the sun's solar processes.

Colonel Pogue and his Skylab 4 teammates share the world record for individual time in space—2,017 hours, 15 minutes and 32 seconds—and Pogue logged 13 hours and 31 minutes in two space walks outside the orbital workshop.

A native of Okemah, Okla. Pogue received his Air Force Commission in 1952. While serving with the Fifth Air Force during the Korean conflict, he flew 43 combat missions. From 1955 to 1957, he was a member of the USAF Thunderbirds.

He is proficient in more than 50 types and models of American and British aircraft. He has served as a mathematics instructor at the USAF Academy in Colorado Springs, Colorado, and in September, 1965, he completed a two-year tour as test pilot with the British Ministry of Aviation under the USAF/RAF Exchange Program.



Col. William R. Pogue

Summer Nebraskan

NUMBER SIX

UNIVERSITY OF NEBRASKA-LINCOLN

MONDAY JULY 14, 1975

Sun heats student housing project

By Lynn Roberts

Seventy-five dollars a year for electricity to heat and cool a house is a figure people should be able to warm up to.

With a little help from the sun, that is the estimated cost for electricity for a house being built through a cooperative effort between the UN-L construction management department and Lincoln Electric System (LES).

The house, which is under construction five miles southwest of Lincoln, will be heated by solar energy.

The house is being built with a transparent south-facing attic which allows sunlight to pass through, thus warming the attic air.

Heat removed

When the air reaches a preset temperature, the heat is removed by a heat pump which transfers it to a water storage tank below the first floor.

The heat is then circulated through an air system which warms the house. If there is

not enough sunlight to warm the attic, heat is extracted from the outdoor air.

The pump operates during the day, storing enough heat to use during the night.

To cool the house, the heat pump operates at night to chill the storage water. Enough water can be chilled in eight hours to cool the house for the rest of the day.

Students began idea

The idea for the house originated with six UN-L students and their professor, Richard C. Bourne.

Bourne said they began working on the plans for the house last spring. After the plans were completed they began to look for someone to finance building of the house, he said.

Tom Arkfeld, LES application engineer, said LES decided to build the house, which is the only one of its kind, mainly because of the way it will be cooled.

Since the pump runs at

night to cool the house, the peak load of electricity which occurs between 2 p.m. and 8 p.m. will be lessened with this system, Arkfeld said.

Cost under \$30,000

The cost for building the house will be under \$30,000 which should make the house available to most everyone, Arkfeld said.

Bourne said the method being used to collect solar energy in the house differs from, and is a cheaper than, most solar heated houses, which use collecting plates to heat water.

Operating costs also are being lowered by using extra insulation and inside window closures to reduce heating and cooling requirements.

The house, which should be completed by September, will be built with instruments that will be monitored for at least two years to check temperatures and power consumption, Bourne said.

Although the concept for

the house will work anywhere, it will work better where there is more sunlight, he said.

"Nebraska, with 67 per cent sunlight availability, enjoys a climate sunny enough to make solar energy capture economically attractive," Bourne said.

Students working with Bourne on the project are: Dail Hobbs, Perry Poyner, Mark Grantham, Ben Voss, Jim Brygger and Rick Kuhl.

Early summer hours provoke varied opinion

Offices have opened earlier on campus this summer, but not a lot of students have opened their eyes early enough to take advantage of it.

New office hours were set to cut down on air conditioning costs, said Ron Wright UN-L business manager.

UN-L offices were given the choice of operating from 7 a.m. to 4 p.m. with an hour lunch or from 7:30 a.m. to 4 p.m. with a half-hour lunch. Normally, most offices are open from 8 a.m. to 5 p.m.

"We haven't had much traffic from 7 to 8, but it has been a good time for staff to catch up on work without student interruptions," said Alice Torwit, office supervisor of student records.

Had been slow

Jan Domeier, office supervisor of admissions and advising, said things had been slow early in the morning until the week before deadline for pre-registration.

She added that there had been many favorable comments on the early opening time by students who were able to use the office before they went to work.

Dr. Gary Martin, assistant director of University Health Center, said they are usually not very busy early in the morning so they decided to open at 7:30.

'No complaints'

"As far as I know there have been no student complaints or problems with the earlier opening time," he said.

Nebraska Union hours were not affected by the hour change since they normally open at 7 a.m.

"There is always a group of early birds waiting to get in before we unlock the doors," said Daryl Swanson, assistant director-administration Nebraska Union.

More tired

Domeier said she had noticed both in herself and others, that they are a little more tired because they get up earlier but go to bed at the same time.

"Sometimes by the end of the week you really feel drug out," she added.

Wright said UN-L offices will return to regular hours sometime in mid to late August.

