

Present construction emphasizes classrooms

Present building activity at the University marks a departure from previous years where some of the construction was for a residence hall or cultural building.

"All seven projects of our present construction are instructional centers," Gilbert Cady, vice-president for business affairs, said.

Cady added, "The size of our current construction program compares favorably with those of previous years, but the composition of it is significantly different."

Nearly one-half million square feet of educational facilities comprises the present building activity.

Among present buildings either completed this spring, under construction, or scheduled to be initiated this fall, the biggest bonanza from the state taxpayers' point of view is the 85,004-square foot Music building constructed at a cost of \$2,748,775.

Less than one-third of the cost of the circular structure north of Gammage Auditorium involved the expenditure of state tax funds, the balance having been provided by a federal grant of \$703,732 and bonding revenue from student fees.

Completed this spring and occupied June 1, the Music building has three levels below grade and five floors above ground.

Although related to Gammage Auditorium through the use of similar materials and architectural details, the Music building will serve a fundamentally different purpose than Gammage Auditorium.

Constructed by Kitchell Contractors, Inc. of Phoenix, at a cost of \$32.34 per square foot, the building houses music department offices, classrooms, studios and practice rooms, a music library, and features a 500-seat

lecture hall and a 125-seat recital hall.

Although the building has been occupied, lecture hall seats are yet to be installed, a project that will be completed before fall-semester classes resume.

Scheduled for late summer completion and fall-semester occupancy is a 35,600-square-foot addition to the Business Administration building. The original building was built in 1968.

The \$1,026,557 cost of the addition has been provided by

legislative appropriation.

Increasing the size of the building to more than 115,000 square feet, the addition involved the construction of three floors over the north wing of the original structure, north of Goodwin Stadium on the south end of University Mall.

The Business Administration addition was built by the Arnold Construction Co. of Phoenix for approximately \$28.84 per square foot.

(Continued on Page 2)

Survey reveals Physical Plant costs lower

A recently released survey of 30 colleges and universities has revealed that Arizona State University operates one of the most economical campus physical plants in the central and Rocky Mountain States.

The study was conducted during 1969-70 by the regional standards committee of the Association of Physical Plant Administrators of Universities and colleges.

On the basis of physical plant operating costs, only three of the schools surveyed ranked lower in per-square-foot costs and only seven showed lower per-student costs than the University.

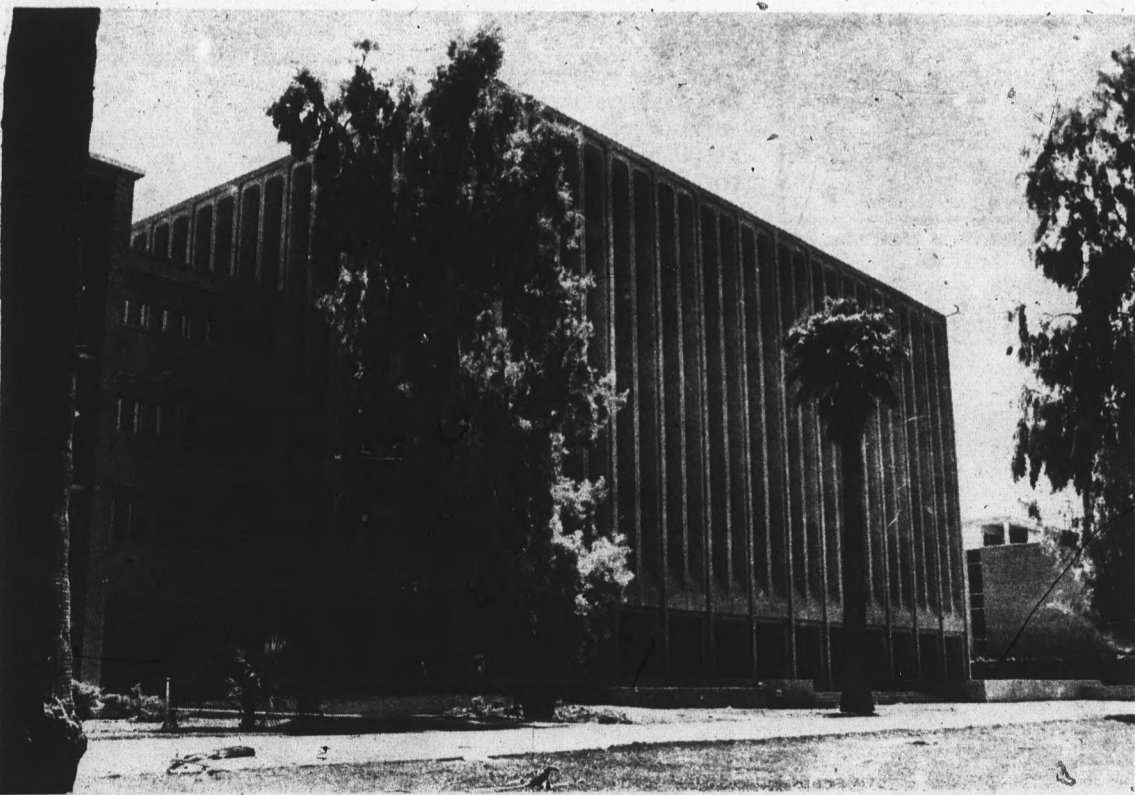
The reason for this, said John Ellingson, director of planning and construction, is probably due to the choice of construction and surfacing materials and utility rates.

ASU's total per square foot cost during the course of the survey was 76 cents and the cost per student was \$116.

"You can build in lots of maintenance problems" said Ellingson, by choosing the wrong surfacing materials for walls and floors.

Only four of the schools surveyed had a lower per-student cost than the University's \$9.06 for administration and general services.

The University ranked in the middle in terms of building maintenance costs, but only nine of the 30 schools had lower per-student janitorial costs.



Nearly completed, except for the installation of laboratory equipment and other interior work, the seven-story Life Science Center addition should be ready sometime next spring. This is one of several building projects at the University, but the big difference this

year, according to Gilbert Cady, vice-president for business affairs, is the seven construction projects are all for instructional centers and not dormitories or cultural centers.

State Press Photo

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ARIZONA STATE UNIVERSITY - TEMPE

SUMMER SESSION

Thursday, August 5, 1971

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Researchers' find confirms NASA claim

Findings by two University researchers that report evidence of amino acids in meteorites lend support to similar claims made last year by the National Aeronautics and Space Administration.

The researchers, Drs. John R. Cronin and Carleton B. Moore, have published results of their testing which detected amino acids in a meteorite that fell near Murray, Ky., in 1950.

The NASA claims were based on the Murchison meteorite that fell in Australia in 1969.

Each meteorite is believed to be 4.5 billion years old and to have originated in the asteroid belt between the orbits of Mars and Jupiter.

Cronin and Moore have labelled their discovery important because previous attempts in other laboratories have either been unsuccessful or findings have been attributed to contamination.

Amino acids are the building blocks of living cells, and discovery of their presence in a second meteorite strengthens the case for the chemical evolution theory, scientists say.

Studies of both the Australian and American meteorites have identified the same 18 amino acids, six of which are the kind normally found in living cells. The other 12 are similar, but do not play a functional role in living material.

Scientists announcing the dual discoveries believe that finding identical complex patterns of amino acids and pyrimidines (the fundamental form of a group of bases, some of which are constituents of nucleic acid) in both meteorites could mean that this is a basic phase in the chemical process leading to life.

Starting with the 18 amino acids found in the meteorites, it would be theoretically possible to build up a living organism, the scientists say.

Both the NASA report, published last December, and the ASU report, which was first published in Science on June 25, note that because six of the amino acids are among those that are commonly linked together to form proteins in living cells, and because the other 12 are amino acids found only occasionally, there is little likelihood of terrestrial contamination which could affect conclusions.

Problems of contamination by handling were avoided by the ASU team because the sample selected was taken from the interior of a single large stone that had been preserved since Sept. 20, 1950, the date of the Murray meteorite fall.

To further minimize contamination possibilities, Cronin



Dr. Carleton Moore

and Moore in each case broke a complete stone and crust-free fragments were selected with chemically-cleaned and heat-cleaned tools.

The fragments then were taken immediately to a clean diamond mortar, crushed, and transferred to an extraction vessel.

The scientists report that because the amino acids found in the two meteorites differ from amino acids found in earth organisms, there is strong evidence for extraterrestrial chemical origin.

Moore, who is director of the Center for Meteorite Studies at ASU, was also a member of the NASA group that studied the Murchison meteorite.

The ASU meteorite center, which contains specimens from more than 900 meteorite falls, has provided samples for the Murray and Murchison meteorite tests as well as many others.

Ex-counselor dislikes calm; returns to ASU

Christine Wilkinson tried to leave university life, but she found she couldn't.

All through her undergraduate years at Arizona State University, she was involved with nearly every kind of activity. She tried to leave it all behind and teach in high school. That wasn't quite what she wanted, so she became a high school counselor.

Still not content, she found she missed college and its hubbub of activities. So counselor-teacher Wilkinson left Coronado High School in Scottsdale and returned to ASU — as activities director for the Memorial Union.

Now Mrs. Wilkinson begins a new phase of college life — as

(Continued on Page 4)

More about

Classes emphasized

(Continued from page 1)

Southeast of the Language and Literature expansion project is the Life Sciences addition, which is scheduled for completion by Sept. 1.

The addition will double the size of the original structure built in 1959 and a 24,000 - square - foot enlargement in 1963.

Although it is expected to be completed by Sept. 1, the building will not be ready for occupancy until six months later.

"The six-month interval," said John Ellingson, director of planning and construction, "is required for the installation of sophisticated laboratory equipment."

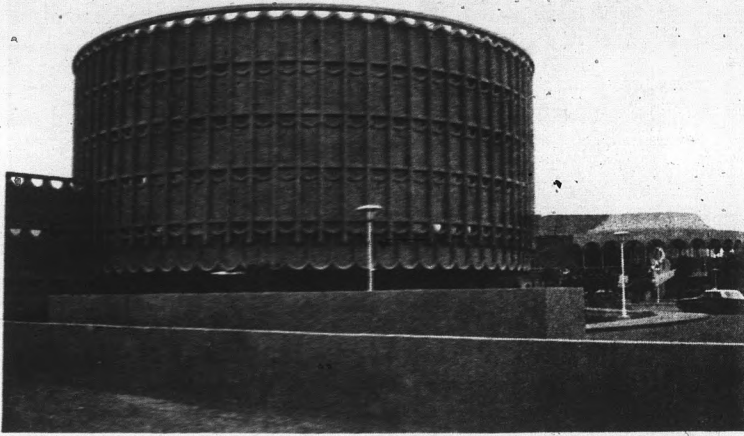
Ellingson added that "this addition has more requirements for utilities and specially - designed areas than any other building ever constructed on campus."

The addition has two levels below grade and five stories above the surface and is being built by the M. M. Sundt Construction Co. of Tucson at a cost of \$35.33 per square foot.

The seven - floor addition will provide classrooms and special - purpose laboratories for the rapidly - expanding departments of botany and zoology.

Total cost of the project, including furnishings and equipment, lists at \$3,880,239, with funds provided by two federal grants totaling \$324,432, legislative appropriation, and bonding revenue from student fees.

Under construction on the east



The new Music building, west of the College of Education, was occupied June 1. Although similar in some physical appearances to Grady Gammage Auditorium in background, the two buildings have different functions.

State Press Photo

side of campus near the Industrial Design and Technology building is the 79,000 - square - foot Psychology building. Completion is anticipated for the middle of next summer.

The Psychology building, is also being built by the M. M. Sundt Co., at an approximate cost of \$28.18 per square foot.

Funds for the \$2.5 million project have been made available from legislative appropriation and a \$430,312 grant from the U.S. Office of Education.

The increase in construction costs over the past 50 years is dramatically illustrated by a remodeling project scheduled to begin this month in the center of campus.

Originally constructed in 1914, the Arts building will be renovated for \$901,000, over 10 times the original cost of the building.

Cost of replacing the 49,260 - square - foot classroom building, however, would require, at today's construction rates, an investment of approximately \$1.5 million.

The remodeled Arts building will house classrooms, laboratories and offices of the anthropology department. Former occupants, the music and art departments, have moved to new quarters in the Music building and the Art and Architecture complex.

The remodeling involves structural changes in the building, provision of new interiors, and the installation of refrigeration and new utility services.

Construction of the 72,000 Stauffer Communications Arts building, designed for the mass communication department, the Bureau of Broadcasting and speech and drama, will not begin until early next fall.

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New nursing dean says health crises can be prevented

Nursing is a lot more than a woman in a white uniform standing over a hospital bed.

Or at least, it should be. Dr. Juanita Murphy, new dean of the College of Nursing at the University, believes it is time for nurses to go into the community and prevent the health crises that put people in hospital beds.

Her opinions are the studied result of coupling two fields — nursing and sociology.

More must be done to prevent the patient from ever needing the intensive hospital care that has been the focus of most nursing programs, she said.

Dr. Murphy said she feels nurses should become "more involved with prevention and maintenance of health care." To do this, they must get out of the hospital setting.

Proper preventative care possibly could prevent many of the problems that lead to hospitalization today, she said. "This is a whole world that's never been explored."

She said "The whole area needs to be investigated to determine what can be prevented in the three main killers today — cancer, heart and stroke. The same may be true of other acute illnesses and many childhood diseases."

Dr. Murphy said she believes community nurses should begin in existing community agencies, then expand. "Nurses should be the change agents in setting up new agencies or changing existing structures to make them more available to people when they do have the needs," she said.

In-the-home care would be one of the outstanding dimensions of a community nursing program, she commented, and evening clinics in high schools or churches would also be a probability. Community nursing must be for the entire community, Dr. Murphy emphasized. "Unfortunately, most of the effort in this area is geared to the poor. But such nursing should be for everyone."

She said research is needed to find the psychological characteristics people have that may be useful in projecting the kind of care that needs to be done. "There is a definite correlation between psychological and somatic symptoms," she said.

In fact, according to reputable studies, substantially more than 80 per cent of all physical illness is thought to be the result of a mental precondition.

This applies to the obvious physical manifestations of mental stress (such as hypertension, ulcers and high blood pressure) plus the less obvious but equally frequent problems such as severe internal disorders,

heart attacks and brain tumors.

Dr. Murphy explained that the community nurse would evaluate conditions and either recommend treatment or refer the patient to a doctor or agency.

Just as nurses in a community setting will have to become change agents, Dr. Murphy had to become a change agent in nearly every administrative position she has held. She went into sociology to learn how to initiate the changes she wanted.

"I was working to make changes, but because of the human element they were not really possible. I found what I had learned in nursing very frequently did not provide me with the knowledge to understand why I was not making the changes I was desirous of making," she said.



Dr. Juanita Murphy

MU slates tour

The last of the Memorial Union Scenic Arizona Tours will highlight scenes from the old West and a trip aboard one of the most famous railroad lines in the West.

Deadline for reservations for the White Mountain Scenic Railroad Trip is tomorrow at 4:30 p.m. Reservations are on a first come first served basis, according to officials at the MU and can be made at the activities center.

Charges for the trip are \$1.50 for transportation and admission for the scenic ride is \$5.54 for adults and \$3.67 for children. The fees must be paid when registering, MU officials said.

Motel reservations will be made by the MU, however, payment for rooms will be paid by the individual making the reservation when he arrives at the motel.

For further information on the trip call the activities center of the MU at 965-6640.

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These are the two addled sisters for which their third sister commits murder in "Ladies in Retirement." Gail Dubie and Jana Parker, both of Tempe, play Emily and Louisa Creed, the giddy and gloomy pair of imbeciles. The play begins tomorrow and continues Saturday and Sunday and Aug. 10-14. Tickets are \$2. Call 965-3437. Produced in the Lyceum Theatre by the University Players, curtain time is 8 p.m. each night.

ASU NEWSfoto

Lyceum production cast spotlighted

An audience watching "Ladies in Retirement" knows who committed the murder from the beginning. It's the cast that hasn't figured it out.

Jane Root of Scottsdale plays the part of the murderess Ellen Creed, driven to kill her benefactress in order to protect her two addled sisters.

Born and raised in Chicago, Miss Root recently moved to the Valley. She studied drama in 1967 at the University of Arizona, then studied voice for a year in New York, and worked under the voice coaches of stars Lena Horne and Dianne Carroll.

Since 1968 she has performed as a jazz singer in Mexico. She has studied drama, dance and painting at the University of the Americas in Pueblo, and played Mistress Merry in the Jacobean comedy, "The Knight of the Burning Pestle."

The ill-fated Leonora Fiske, garroted and bricked up in her own oven, is played by Ellen Feldman of Paradise Valley. She is a theatre major at ASU and has been particularly active in the University's experimental theatre program.

Miss Feldman has portrayed Fatty Pert in "Look Homeward Angel," Naomi in "Unexpurgated Memoirs of Bernard Mergendeiler," Louise in "The Visit," and Max in "Sign in Sidney Brustein's Window," which was presented last month.

The only male amidst this covey of eccentric women is Albert Feather, who seeks refuge with them from the police.

Albert is played by Nick Toth of Phoenix, a sophomore theatre

major. His first role was as Wally O'Hara in "Sign in Sidney Brustein's Window." When not onstage or in class, Toth is an announcer for a local radio station.

The more lucid of Ellen's sisters is the energetic and sarcastic Emily, played by Gail Dubie of Tempe. She recently completed her master's degree at ASU in secondary education, with emphasis in speech and theatre. Among her numerous roles, Miss Dubie has portrayed Mrs. Winemiller in "Summer and Smoke," the Baker's wife in "Grass Harp," Mabel in "Suppressed Desires," and eleven separate women in "Spoon River Anthology."

Louisa, played by Jana Parker of Tempe, is the most child-like and daffy of the sisters.

Miss Parker is a theatre major and this is her first major role. She has worked on such Valley productions as "The Visit," "Look Homeward Angel," and "How to Succeed in Show Business."

(Continued on page 4)

Professor wants to know

Prehistoric man had problems?

A University anthropology professor believes that a major research effort in archaeology should be to determine what ancient man's relationships was with his environment.

"We know this generation is in trouble," said Dr. James Schoenwetter. "We want to know if others were, and what they did about it."

Schoenwetter spent part of this summer at a site near Eldred, Ill., about 55 miles north of St. Louis, Mo., named the Koster site.

The site is a deep, stratified prehistoric Indian village that to date has disclosed 11 different occupations and spans a period estimated from 6,000 B.C. to 1200 A.D.

The Koster site offers extremely good preservation of bone, stone, shell, ivory and plant artifacts. Each of the 11 communities has been covered by a blanket of sterile soil which minimized the disturbances by subsequent inhabitants.

Schoenwetter was one of nine research and consultant scientists working on the project, which was directed by Dr. Stuart Struever of Northwestern University. Other participants were from Michigan, Michigan State, Chicago, and Louisville Universities and Central Washington State College.

Schoenwetter's involvement in the project centered around extracting tiny pollen grains from ancient sediments in an effort to determine what kind of plants they represented and how plentiful they were.

Pollen grains remain almost unchanged through the centuries because of their size and durability.

"We did some work which showed that the environment was not stable throughout the various periods," Schoenwetter said. "The plant life did undergo changes, so people had different quantities of the various foods available to them. Sometimes there were sufficient wild foods locally; other times the people had to move."

Studies of the conditions in effect during the periods under study requires a joint effort, and will continue long after the available material is sifted from the site.

Schoenwetter commented, "We have to integrate botanical and geological studies, the bone studies, the importance of snail shells in the deposits and also the record of human activity from the archaeological standpoint."

"We're also trying to get information from human skeletons on possible dietary deficiencies,"

he added.

The Koster project was budgeted \$90,000 this year, with the Foundation for Illinois Archaeology supplying \$40,500. Northwestern University added \$27,000 and the National Science Foundation contributed \$22,500.

A grant of \$8,550 from Northwestern University is funding

the services of Schoenwetter and several graduate students who will assist him when he begins his analysis of the data from the site next spring.

"That's more than eight thousand dollars just for pollen alone, so you can see how expensive scientific archaeology has become," Schoenwetter said.

Black Phoenix newsman leaves for Chicago

Until about six years ago, minority groups had trouble breaking through the broadcasting industry's racial barriers.

Now, Black, Chicano, Indian and Oriental announcers, newsmen, and other performers are frequent images on tv screens.

And many others work behind-the-scenes as writers, editors, directors, production aides and managers.

But a recent mass communications graduate from ASU has made a major breakthrough of his own.

Bob Petty, a 1970 graduate, is one of the pioneer Black announcers in the Phoenix area. On Aug. 17 he will join Chicago's ABC affiliate, WLS-TV.

"I'll be assigned to various duties in the news department, primarily as a street newsman," Petty explained. "I am reluctant to leave Phoenix, but this will be a major career step for me. After all, Chicago is the nation's third largest market."

The Caruthersville, Mo. native has been a member of the KOOL-TV news and sports staff since Sept., 1969.

He also worked a year at KPHO-TV and spent another year and a half at KAET-TV, the

University's Public Broadcasting affiliate.

"Eventually, I would like to work for a major network, because that's where the action is," Petty said. He hopes his career will "spread to news administration."

Early this year, Petty took a six month leave from KOOL-TV to participate in the Urban Journalists' Fellowship Program at the University of Chicago.

He was one of ten selected as outstanding young journalists interested in urban affairs studies.

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Count Basie swings in Gammage show

Count Basie and his orchestra, along with featured vocalist Mary Stallings, will present a concert in Gammage Auditorium at 8 p.m., Aug. 10.

At 66, Count Basie has done just about everything there is to do musically, and he's still going strong.

William Basie began playing piano as a child in Red Bank, N.J., learning from his mother.

His professional career began when he joined a theatre group that was touring the United States. That tour ended in Kansas, where he worked in a silent movie theatre.

Basie joined several bands and eventually became leader of one. When he was 31, music critic John Hammond heard his band on a small Kansas radio station. With Hammond's help, the Basie band was soon playing in Chicago, then New York.

International recognition came to Basie when a record album was released the following year.

Basie has received many honors, including being voted "Greatest Ever" by 62 top musicians in 1956. Among those casting ballots were the late Louis Armstrong, Bobby Hackett, Woody Herman, Stan Getz, Dizzy Gillespie, Tommy and Jimmy Dorsey, Nat King Cole, and Andre Previn.

During his past 36 years as a jazz entertainer, Basie has appeared on the television shows of Garry Moore, Ed Sullivan, Dinah Shore, Steve Allen, Johnny Carson, Joey Bishop and others. He has performed at nearly every major jazz festival as the headline attraction.



Count Basie, a musician who has played for the Queen of England and the president of the United States, will perform with his orchestra at Gammage Auditorium Aug. 10 at 8 p.m. Tickets are \$2 and may be reserved by calling 965-3434.

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More about

Calm too much

(Continued from page 1)

coordinator of student activities. Before, she worked with all events held in the Memorial Union building. Now she will work on programs for the MU, but also will coordinate those programs with the activities planned by ASASU, the Residence Hall Association, the Associated Women Students and all other registered student organizations.

Her coordination duties are planned "to insure against repetition and duplication of expenditures and facilities," according to George F. Hamm.

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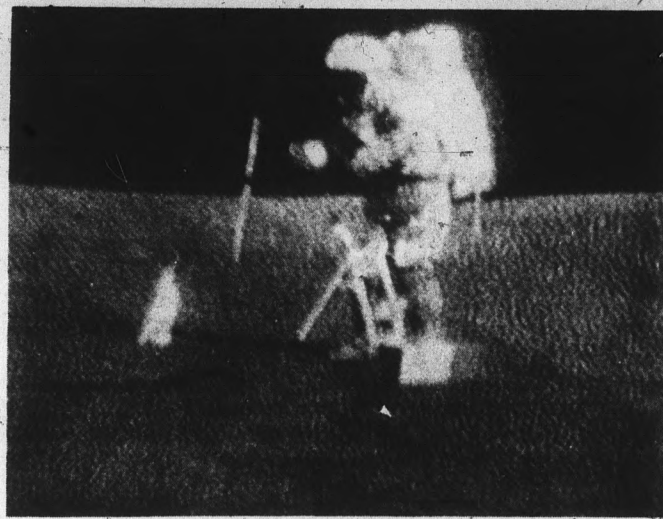
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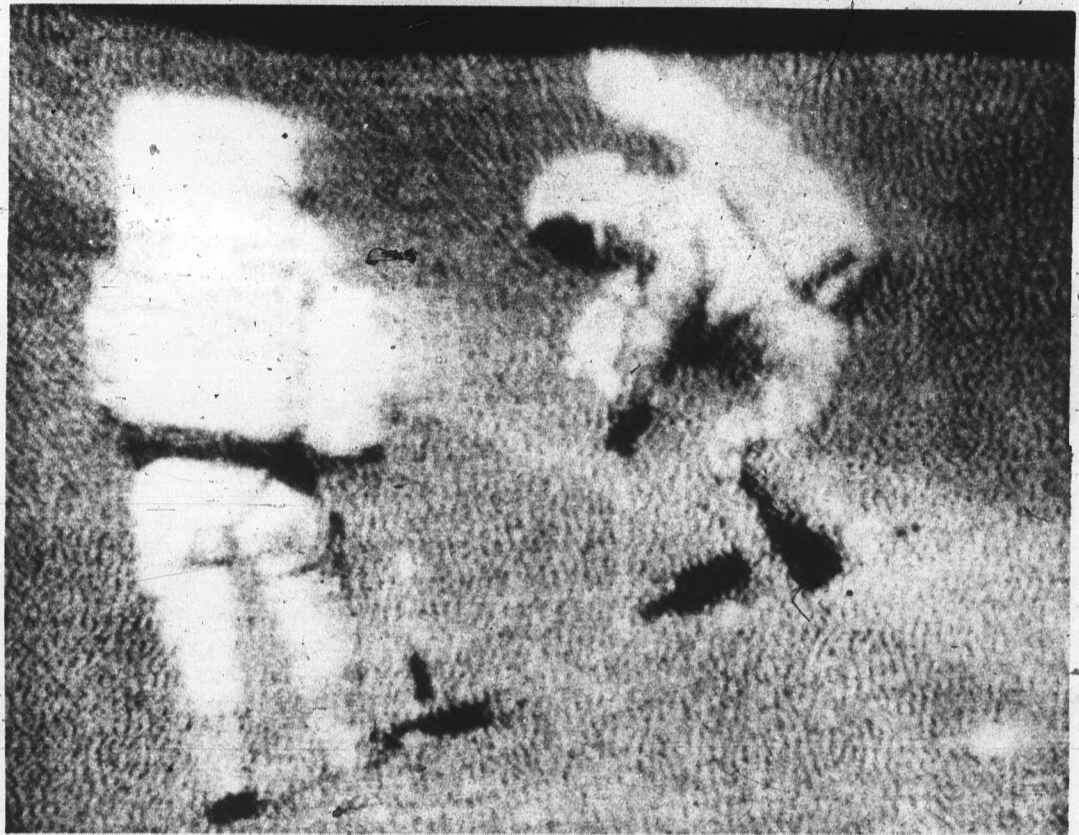
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The Government Documents section in Hayden Library featuring a display of items and photographs associated with previous Apollo missions. These photos show astronauts David R. Scott and John B. Irwin setting up some scientific experiments during their second lunar excursion Sunday. Apollo 15 is scheduled to splashdown at approximately 1:46 (Arizona time) Saturday.

State Press Photos



More about

Players spotlighted

(Continued from Page 3)

The role of Lucy Gilham, the pert and snippy maid (and cohort to rascal Albert), is played by Candee Lewis of Tempe. All aspects of theatre interest her. She has acted in "Blood Wedding," "Three Penny Opera," "Rags to Riches," and "U.S.A." She also ran lights for two major ASU productions and helped make the costumes for every show in the past two years.

Priscilla Lightbourne portrays Sister Theresa, the benevolent busybody from the nearby priory.

Miss Lightbourne, a sophomore theatre major, is making her college stage debut with "Ladies

in Retirement," but she has played Lenena in "Midsummer Night's Dream," and had character parts in "Rhinoceros" and "Born Yesterday" at Coronado High School in Scottsdale. She also is active in the technical aspects of theatre.

In addition to the seven actors on stage, four others make this production of "Ladies in Retirement" come to life.

Janet Elsea, assistant professor of speech and drama, is the director. She recently completed her doctorate degree program from the University of Iowa, and is director of ASU's Readers Theatre.

Registration figures show decrease

Enrollment figures for the second summer session have been released by the summer sessions office.

According to Dr. Denis Kigin, director of summer sessions and extension, the enrollment for the second session is down 126 from last year. Enrollment for the second session is 8,628.

Breakdown of registration for the second session is as follows: 5,524, pre-registration; 1,808, regular registration; 471, late registration and 825 continuing students.

Dr. Kigin said the general decrease in numbers of students attending summer school at the University is because of 1) the general economic situation 2) the advent of new summer programs at the junior colleges and 3) the reduced demands for higher degrees in the teaching field due to a small market for teachers.

First summer session enrollment was 11,938 with 5,903 students pre-registering, 4,903 students in regular registration and 1,112 during late registration.