

Sharp college dropout rate being probed

Sociologists seek return of questionnaires

By BOB KAUFFMAN

The sharp dropout rate in the College of Liberal Arts may be dulled if a study by two University sociologists is successful.

Last year Dr. George A. Peek, Jr., dean of the college, instituted a research program designed to determine the yearly number of dropouts and factors affecting their withdrawal.

From this information, the college hopes to develop a more effective program to cut down the dropout rate.

It is estimated that by the end of four years 40 percent of all students have dropped out of college.

Dr. Leonard Gordon and Dr. John W. Hudson, professors of sociology, are col-

laborating in research on the dropout problem.

Gordon explained that in previous years the data processing tape used to record the number of incoming students was destroyed each semester. With the help of Jerry Tarakajian, however, he was able to obtain this past year's tape.

The data processing tape was necessary to determine exactly how many students dropped out each semester.

In the 1968 fall semester, a total of 1,913 freshmen enrolled in the College of Liberal Arts. This was more than 40 percent of all freshmen enrolled at the University.

By the spring semester, 309 of the new students had withdrawn, about 20 per-

cent of the class. Over 30 percent of these dropouts had good grades, according to Gordon and Hudson.

Dr. Hudson feels that once a college has a large enrollment it tends to become too impersonal.

Gordon and Hudson reviewed studies concerning withdrawal rates at other colleges and high schools and compiled a questionnaire from these studies.

Since June, questionnaires have been mailed to the 309 dropouts. Only 87 have responded. Hudson attributes the low response to fear the information will be used against the student; or just plain disinterest.

"If there is no response," said Hudson, (Continued on page 2)

State Press

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SUMMER SCHOOL BREAK — Two students take a break from their studies for some quiet conversation under the shade of the old palm tree on the front lawn of Old Main.

Football team prepares for Minnesota Gophers

By BILL JACKSON

It's only five weeks away and the echos of popping pads will soon be heard in Sun Devil country as this year's version of A-State football prepares for "it" — the opening game against Minnesota's Golden Gophers, Sept. 20.

Press photo day for the 69 squad has been set for 9 a.m. Wednesday, Aug. 28 at Goodwin Stadium. Usually held at Sun Devil Stadium, the site has been switched due to construction at the ASU field.

The Sun Devils will go through the motions for the news media until noon on the 28th then turn their attention to passing the Kish Mile, which separates the football players from the tennis players.

Practice sessions the 29th and 30th will be confined to conditioning and be held on campus, then Aug. 31 the Devils move to that fall "resort" outside of Payson — Camp Tontozona — to don pads for the initial scrimmages and contact work of the season.

The Devils return to the Valley Sept. 10 just in time to greet the Western Athletic Conference Skywriters who will be touring each of the eight WAC campuses gathering pre-season material.

This year's A-State squad has an abundance of one necessary factor for a good team and lacks another.

Coach Frank Kush will have a backfield that could possibly be second to none, if that second factor comes around — the offensive line.

Returning this year is a full stable of horses, led by All-American candidate Art Malone at fullback, with the likes of Jimmy Shaughnessy, JC transfer Bobby Thomas, Mike Brunson and Hugh McKinnis to complement him.

At quarterback will probably be Joe Spagnola, who as a sophomore last year showed flashes of brilliance, especially against Arizona. He will be backed up by sophomores Grady Hurst and Dan Forey and junior Steve Zeiders.

The offensive line is hurting with only Gary Ventura at left guard returning with any experience under fire.

It all boils down to one important factor — the young must mature if the established (Malone in particular) are to romp free. One thing is for certain — if that line can open the holes, Malone just may cast a long shadow over the great O. J. Simpson.

Publication ends

This is the final issue of State Press this summer. Regular publication of the paper will begin with the Sept. 18 issue and will be distributed to the University community four times a week (Tuesday through Friday) from that point on.

Knock, knock, who's out there?

Intelligent life as we know it probably doesn't exist in our solar system, but there is little doubt that intelligent beings exist elsewhere in the universe.

This is the opinion of Dr. Paul Smith, University physicist.

"If we consider the probability range in the evolutionary development of the numerous solar systems outside our own, and the billions of stars in the universe, there is no reason to conclude that intelligent beings are indigenous to earth," he said.

Dr. Smith was interviewed after the recent Mariner 6 probe of Mars.

He pointed out that current scientific evidence reveals the possibility of some primitive forms of life on the planet, such as lichens and moss.

Given the limited ability of current space probes to scan large areas of the Martian surface, he was skeptical of drawing too many conclusions from information revealed by Mariner 6 and 7.

Dr. Smith noted there is some evidence that trace amounts of oxygen may exist in the Martian atmosphere.

Although small quantities of water vapor apparently exist in the atmosphere and water may

be a constituent of the Martian polar caps, it is also possible that water exists under surface rocks, he said.

The scientist pointed out that it is already known, with reasonable certainty, that Mars has variable seasons, temperatures of about 40 to 50 degrees in certain regions, carbon dioxide, spins on an axis at about the same rate as earth and has an orbital plane similar to earth's.

He doubted if Mariner reports will provide earthshaking news for scientists, although, "We should gain a clearer insight of the planet," he said.

Even if life is not discovered on Mars, it will not diminish the

probability of life existing elsewhere in the universe, he said.

"Current information reveals that physical laws in and outside our solar system are the same. This would lead to similar evolutionary processes," he explained.

"The prevailing opinion in scientific circles is that there is an abundance of intelligent life somewhere in space," he added discounting the contention that man is the center of the universe.

"Man has always believed he was unique and has always been highly ethnocentric. But science has time and time again proved him wrong," he said.

MU West film series schedules last show

"The Naked Prey" and "Lilies of the Field" are the two selections that close out the Popular Film Festival for the summer. The two films will be shown tonight in Gammage Auditorium starting at 7.

"The Naked Prey" stars Cornel Wilde, Gert Van Der Berg and Ken Gampu and is a chase-adventure vividly portraying man pitted against both his environment and his pursuers.

Wilde is a guide taking a safari into Africa a hundred years ago. The hunter rouses the wrath of a group of native warriors who capture and torture the safari in horribly ingenious ways.

As a special treat, Wilde is released without food, clothing or weapons. He is pursued by skilled trackers. His desperate measures to elude and eliminate the warriors reduce him to near savagery.

The film has very little dialogue but the camera speaks with an expression all its own. Bush, jungle and mountains with their strange, wild life make up a series of striking landscapes.

There's an elusive quality about "Lilies of the Field" that is hard to describe: it exudes warmth and joy without being sticky; the drama is expressed in its sheer simplicity and it is blessed with almost faultless performances.

Sidney Poitier received an Academy Award for his role of an ex-GI who encounters a group of refugee East German nuns in the Arizona desert and is "persuaded" to build a chapel for them.

New experimental University group will be convened

An experimental body, the University Council, including representatives of the faculty, staff, students and alumni, will be convened this year, President G. Homer Durham has announced.

The body will be based on the elected constituent bodies of the University, and will provide opportunity for conference and joint consultation.

Membership will consist of Dr. Durham, chairman; the vice-presidents and administrative officers reporting directly to the president; deans of the colleges; the chairman of the Faculty Assembly; the executive committee of the Faculty Senate; two members of the faculty at large appointed by the president; the staff personnel committee; the executive council of the Associated Students and six students elected by the Student Senate; and three representatives of the Alumni Board.

The University Council will be convened to consider broad matters of University-wide concern presented by the president or recommended for referral to it by the groups represented.

Pre-Hitler Viennese actress Lilia Skala captivates as the Mother Superior while radiating softness beneath a tough, business-like exterior.

"A bright little film that is so gentle and ingenuous in constructing a modern parable that it fairly disarms the stubborn critic who would apply the yardstick of logic to it," is the way Bosley Crowther of the New York Times described the film.

UV rays almost tame enough to walk on leash

Ultraviolet rays like those bombarding Mars also exist on earth, but they're to be respected, not feared, according to an authority attending a University institute in ultraviolet absorption spectroscopy.

Dr. William Ulrich, Beckman Institute scientist, explained that ultraviolet rays are beams which exist above the level visible to the naked eye, but below the X-ray level. They emanate from the sun, stars and man-made generators.

On earth, the ozone in the atmosphere filters out most of the rays before they reach an intensity harmful to humans.

Dr. Ulrich pointed out that they have many benefits including use as sterilizers. The rays are known to kill bacteria, virus and other lower life forms, which is why life as

VA requests certificates of attendance

The Veterans Administration is as anxious as the veteran to have G.I. education checks arrive on time this fall, said Wayne A. Sanders, manager of VA's regional office.

Judging from experience going back a quarter of a century through three G. I. bills, Sanders says the number of delays would be reduced drastically if veterans and schools did their part of required paperwork . . . and did it on time.

If the veteran who was in College last semester followed

instructions and returned his certification of attendance at the end of the last term, he has nothing more to do before his checks start arriving this fall, assuming the college registrar follows through and promptly returns the completed enrollment certifications to the VA.

If the veteran did not return his certification of attendance, he should do so immediately to reduce the period of delay. If the certification is lost, the veteran should contact the VA office that issued it to him.

Sanders pointed out that veterans enrolling for the first time — or who have changed college or program — must be certain of three things: (1) they have obtained a proper certificate of eligibility from the VA; (2) they have submitted this certificate to the college registrar and (3) the college registrar returned the completed certificate to the VA.

Normally, payment for September and October is combined in the first check mailed to veterans in November.

known on earth probably does not exist on Mars.

Dr. Jacob Fuchs, professor of chemistry here, who directed the two-week session which ended Friday, said that disagreement exists in the scientific world on the quarantining of the lunar astronauts.

He explained that while it is known that ultraviolet rays will kill virus, scientists don't know how many. The rays penetrate the lower life forms and disrupt the cells which in turn destroy the organism.

"On the moon, with its lack of oxygen and high intensity of ultraviolet, one school of thought contends that no virus could exist, therefore quarantine is unnecessary," he commented. "But, this is still in the realm of theory."

Another scientist, Dr. James Thorburn of Eastman Kodak Company observed that man would have to be protected from ultraviolet rays in planetary exploration.

"But, since the lunar explorers were able to withstand the moon's ultraviolet, it is reasonable to assume that the other planets should give less trouble since the moon is nearer the source of UV, namely the sun."

More than 50 industrial laboratory technicians and chemists attended the two-week institute. Another session, the 14th annual two-week course in modern industrial spectroscopy will be held Aug. 18-29.

Four guest lecturers will be featured during morning programs with afternoon sessions devoted to the use of spectrographs, spectrometers, source equipment and microphotometers.

Swim party planned

A swimming party for continuing students, sponsored by MU West, will be held at the Shalimar Country Club, about one mile east of Rural Road on Southern Ave. in Tempe.

It is scheduled to start at 7 p.m.

Reservations for the party are required and can be made by calling MU West at 961-3406. Ask for the Front Porch. Res-

ervations must be in by 4:30 p.m. today.

Dressing rooms are available at the Country Club, the dress is casual, a buffet will be served and guests may be brought — all for a \$2.50 charge.

If an individual doesn't have transportation to Shalimar arrangements can be made by calling the Front Porch.

TV education offering scheduled again in fall

"TV High School," in which more than 2,000 adults registered last spring, will be offered again this fall with multiple sponsorship coordinated by the Phoenix branch of the American Association of University Women.

The program, which includes 60 half hour lessons in five required areas — English grammar, general mathematics, social studies, natural sciences and literature — will start on KAET, channel 8, Sunday, Sept. 21, with registration required by Sept. 12.

Purpose of "TV High School," according to Mrs. Michael DeGrazia, AAUW coordinator, is to prepare adults who have not finished high school for the General Educational Development Test.

The state department of public instruction issues diplomas to those who pass the test, she said.

The lessons are televised by the station Sundays at 6:30 p.m. and twice daily during the week, 8:30 a.m. and 7 p.m. Mondays through Fridays with three new lessons given each week.

Additionally, special individual help can be provided at the viewer's home or in centers set up for that purpose.

Other sponsors, in addition to AAUW and the University are

Arizona Public Service, which contributes financial support and manpower; First Federal Savings and Loan, which provides office space in its building at 2002 E. Camelback, Phoenix, and the state department of public instruction.

A home study kit to be used along with the televised lessons is available from TV High School, Box 777, Glendale, Ariz. 85301, for \$13.50. Information and registration forms are available from the same source.

Dropout probe

(Continued from Page 1)

"we mail a registered letter, which with everything considered, costs the college about \$10."

"We know a much better record can be established," said Gordon, "but we need the students' cooperation. The questionnaires are vital to our research."

Gordon and Hudson request that any student who received a questionnaire return it to the college or pick up a new one there.

Results will be available in the fall after which the findings will be reviewed to determine what changes should be made in the college.



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Mr. Bull, say hello to Miss Cow

Computerized dating services, once a novelty, are now serious businesses.

The electronic Cupid digests personal data and attempts to match men and women who have similar likes and dislikes. Often, these computer introductions result in matrimony.

Now, two University agriculture seniors are working on a plan to use the computer to

mate bulls and cows for herd improvement.

Mike Vyne and Mathew Allen, noting computer success in matching humans, figured the system should work with animals, too. Their research indicates it does, barring human error, genetic difficulties and availability of sufficient data.

As a class project, they instigated a study entitled "A Computerization Approach to Sire

Selection." It urges dairymen to breed for progress and not merely for another calf or another lactation.

Dr. James Becker, professor of farm management here, explained that the system offers a wealth of varied programs and can accommodate breeders who need special formulation for individual situations.

"The initial computer program bases its selection on six

characteristics . . . stature, front end, rump, fore udder, rear udder, udder support and floor," Dr. Becker stated. "These have significant phenotypic correlations with milk and fat yields."

Any bull with adequate statistical type evaluation may be used since his performance is graded on his daughters' appearance and classification.

Subsequently, a bull with a

greater number of daughters will have a more reliable performance proof, considering also the importance of environment and number of daughters in various successful herds.

"The number of bulls used is irrelevant," the professor said. "However, five or ten may be the most desirable for ease of computer selection."

He explained that the breeder may select the bulls according to his preference as follows:

- bulls in fall studs available to him.
- bulls in any preferred stud.
- bulls in performance and breeding journals.
- bulls in any combination with adequate statistical figures.

A large operation may breed with the assurance of the best possible matching selection. The use of a few bulls with adequate proofs may be simplified and computed in advance.

"In this computer program, there are no hasty choices when the decision involves breeding several cows each day," Dr. Becker said.

Six-part accounting seminar scheduled

A six-part certified public accountant review seminar to assist graduate accountants in successful passage of the uniform CPA examination, applications for which are due by tomorrow, will begin at the University's College of Business Administration Tuesday, Sept. 2.

Sponsored by the Center for Executive Development and accounting department, the seminar is divided into six consecutive topical sessions is 10 or 20 hours of instruction so that participants may enroll in all six or their choice of any combination of sessions.

They precede the Nov. 5, 6 and 7 examinations to be proctored by the Arizona State Boards of Accountancy, which

requires registration for the by Friday.

"The objective of the series is to help accountants have a thorough understanding of the important advancements in accounting theory and technique in solving accounting problems," said Dr. William A. Ruch, director of the center. "For this reason, the series is also beneficial to accountants not planning to take the examination, but interested in enlarging upon their education."

The first two and the sixth seminar have registration and instruction fees of \$25 each and the third through fifth, all of which include 20 hours of instruction, carry \$50 fees. Cost of the entire series is \$225.

Topics, dates and faculty for the six-part seminar, are:

● Federal Income Tax, Sept. 2 and 4 from 6:30 to 9:30 p.m. and Sept. 6 from 8 a.m. to noon, Dr. Virginia R. Huntington, associate professor of accounting.

● Accounting Theory, Sept. 9 and 11 from 6:30 to 9:30 p.m. and Sept. 13 from 8 a.m. to noon, Dr. Leroy F. Imdieke, associate professor of accounting.

● Financial Accounting Problems, Sept. 16, 18, 23 and 25 from 6:30 to 9:30 p.m. and Sept. 20 and 27 from 8 a.m. to noon, Dr. Imdieke.

● Managerial Accounting, Sept. 29, Oct. 1, 6 and 8 from 6:30 to 9:30 p.m. and Oct. 4

and 11 from 8 a.m. to noon, Dr. John G. Helmkamp, associate professor of accounting, and Dr. Gordon L. Nielsen, associate professor of quantitative systems.

● Auditing, Oct. 14, 16, 21 and 23 from 6:30 to 9:30 p.m. and Oct. 18 and 25 from 8 a.m. to noon, Andrew Haried, associate professor of accounting.

● Commercial Law, Oct. 28 and 30 from 6:30 to 9:30 p.m. and Nov. 1, 8 a.m. to noon, Herbert M. Bohlman, assistant professor of general business.

Registration forms and complete information can be obtained from the Center for Executive Development.

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Rescue copters rack up impressive record

The two red helicopters which are the backbone of the Air Medical Evacuation System (AMES) project are rapidly becoming Arizona's Angels of Mercy.

Although their main mission is directed at reducing casualties on the state's highway, the copters have aided several non-motorists in the past two months. Rescue missions have included auto, boating, hiking and industrial mishaps.

The project, which began operations in Arizona over the Memorial Day weekend, is financed by a \$304,000 Department of Transportation grant. The funds are split between the University and the Arizona Highway Patrol.

Dr. James L. Schamadan, associate professor of engineering, who promoted the civilian application of the Vietnam War inspired airlift, has released statistics covering the first two

months of operations.

The data, compiled by the Highway Patrol, revealed that 41 evacuation missions were completed through July 31 with a total of 43 persons being evacuated.

The choppers flew 164 patrol missions and 205 total missions; they were in the air over 258 hours; their longest mission was 140 miles one way and they logged an average speed of 100 miles per hour.

"Most missions have occurred within a 200-mile radius of Arizona Helicopters' Scottsdale base," Dr. Schamadan said.

"The rescue craft have landed in such diverse places as a residential yard, a hillside minedump, on highways, in desert terrain and near a mountain summit. No difficulty has been experienced in landing the helicopters where reasonable clearance for the main rotors

and tail rotor is available," he continued.

The report indicated average flight time of 40 minutes to Payson; one hour to Tucson and Flagstaff; 32 minutes to Wickenburg and 40 minutes to Globe and Gila Bend.

Dr. Schamadan pointed to four missions as representative samplings:

● Auto accident at Canyon Lake. The call was received at 8:55 p.m. and the aircraft was enroute at 8:59 p.m. It arrived at the scene at 9:15 p.m. and took on board two adults and two small children. The aircraft departed at 9:35 p.m. and arrived at the hospital at 9:59 p.m. Total time: one hour, four minutes.

● Injured hiker on Mt. Baldy. A girl who had suffered a broken leg on the west slope at the 11,000 foot level was successfully evacuated. The helicopter left Scottsdale at 3:40 p.m., arrived at the scene at 5:03 p.m., left at 5:25 p.m. and arrived at a Phoenix hospital at 7:45 p.m.

● Boating accident at Apache

Lake. The call was received at 4:23 p.m. requesting the evacuation of a girl who had suffered a broken leg. The aircraft was enroute at 4:26 p.m., arrived at Apache Lake resort at 4:47 p.m., left at 5 p.m. and arrived at the hospital at 5:23 p.m.

● Auto accident six miles west of Superior. The call was received at 10:18 p.m. and the aircraft departed at 10:21 p.m., arriving at the scene at 10:53 p.m. The aircraft picked up one person, left at 11:01 p.m. and arrived at the hospital at 11:29 p.m.

"The Apache Lake incident offers a dramatic demonstration of the time saved by these missions," Dr. Schamadan explained. "It occurred on a holiday and officials estimated that a ground ambulance, fighting heavy traffic, would have taken four hours to reach the scene. The AMES 'copter made the round trip in slightly more than 40 minutes," he said.

He pointed out that under the AMES contract, Arizona Helicopter leases the aircraft and provides three military trained

pilots. Gold Cross and Associated Ambulances participate as ground units.

"All personnel involved, including six Highway Patrol veterans, have completed paramedic training," the professor stated.

"These highly skilled medical technicians, who are specialists in emergency rescue techniques, and care for injured persons, have completed an intensive course in emergency medical skills at Good Samaritan Hospital in Phoenix," Dr. Schamadan said.

Dr. Schamadan, a practicing physician, predicted that air evacuation of highway accident victims could save 5,000 lives annually when he presented the idea to Washington officials.

Other economic benefits to the individual and society can be derived in terms of speedy treatment resulting in a shorter hospital stay and a quick return to work.

SUMMER

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Editor

BILL JACKSON

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Student desires room near university for period from September to December 1969. Send info to Gene Clough, 640 Sheffield, Pontiac, Michigan 48057.

Financial aids director lists loan closing dates

Van L. Bushnell, assistant director of financial aids, has listed the closing dates for short term loans for fall tuition payment.

Students planning to use short term loans to pay tuition fees for preregistration have until 4:30 p.m. Friday, Aug. 22 to have their loans approved.

Short term loans for regular registration fees will be termi-

nated at 4:30 p.m. Thursday, Sept. 11.

Due to the fact that the process of obtaining a short term loan involves an appointment with a financial aids counselor, students should allow at least two days to receive their loan.

Bushnell advises students to apply early to be certain they receive their loan before the funds are exhausted.

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