

Welfare reps present position papers today

Welfare consultant Nancy Gomes and four state representatives will present position papers on their contrasting views of welfare in Nevada today before the Washoe County Democratic Central Committee.

The meeting will begin at 7:30 p.m. in Wooster High School's cafeteria and is open to all Democrats, according to Central Committee chairman Dr. Eugene Grotogut.

Appearing for the state will be

Roger Trounday, director of the health, welfare and rehabilitation department; David Tomlinson, chief of eligibility and payments, welfare division; Robert Archie, executive director of the employment security department; and Terry Sullivan, purchasing distribution officer with the Nevada state purchasing division.

Both sides will make a 20-minute presentation, followed by a 20-minute question-and-answer session. Each will distribute fact sheets explaining their positions.

Candidates for delegate to the Democratic National Convention in Miami will be expected to declare which presidential candidate they support or whether they are un-

committed. A preferential election of candidates for national convention delegates will be conducted during a Central Committee caucus on the same evening.

"Washoe" on film Thursday

Drs. Allen and Beatrice Gardner, UNR psychologists who have won international attention for teaching sign language to a chimpanzee, will give their first public lecture in Reno Thursday at 8 p.m. in the Church Fine Arts auditorium.

The lecture will be accompanied by a special film made during the four-year project in which they tutored a young female chimpanzee, Washoe, in the American Sign Language.

The pioneering project is considered a major breakthrough in

interspecies communication.

Early efforts to teach human speech to chimpanzees were failures, perhaps because the animal's vocal apparatus is not designed for the kinds of sounds involved. Chimpanzees are quite adept with their hands, however, and Washoe is said to have acquired a vocabulary of signs for numerous words and phrases.

Washoe will not be on hand for the Gardners' lecture. She has moved to Oklahoma and is living with a colony of chimps, where research is continuing.

Sagebrush

Volume 48 Number 46, Tuesday, April 4, 1972

Five UNR students enter papers in contest

Five students from the electrical engineering department at UNR have entered the 1972 Student Paper Contest. This annual event is sponsored by the Institute of Electrical and Electronic Engineers (IEEE), Reno Subsection and UNR Student Branch.

The contest will be held at the Liberty Belle Restaurant on Wednesday. The five will present papers on technical topics before a panel of judges and an audience of industrial representatives and professional engineers. They are vying for sizeable cash prizes and a chance to present their papers at a regional contest.

Professor Charles F. Fell and Dr. Andrew A. Halacsy of the EEE faculty are acting as student paper chairmen and judging chairman, respectively. The UNR student branch president is Douglas Varney.

Victor S. Ivashin, 21, is a senior engineering student in electrical engineering dept. He was born in Reno and graduated from high school in 1964. He entered UNR the same year, dropped out, and resumed on a part time basis in 1967. He is presently working on the last nine credits towards his BSEE.

Ivashin and his wife, Peggy Ann, have two children. Peggy Ann attends UNR, majoring in Social Sciences.

He is presenting two papers at the contest: "A Reward Box for Speech Therapy" and "A Solid-State Repulsion Motor Design."

dept.

The second paper is about a motor which is best described as an electrical no-no. EE students are introduced to the repulsion motor as an aid in teaching electrical theory, but learn that it is an impractical entity. Its development was abandoned because design was complicated by the use of elaborate mechanical switching. Now that solid-state, or transistor, switching is available the design is somewhat simplified, and, although the motor is still inefficient and impractical, it may find usage in special applications. Once again, Ivashin has a working model which is a spectacle of flashing lights and labored chugging.

James C. Cooper is determined to get a college education. He was born in San Jose and lived in the Bay Area. His father, a construction foreman, was engaged in dam building projects, a vocation which carried the Cooper family to Europe and Asia as well as the United States.

He graduated from high school in West Pakistan where his father was employed in the Mangla Dam project. The following year the Cooper family returned to the U.S. when the elder Cooper was working on the Oroville dam. Cooper entered Chico State College that year but had to drop out. He worked with his father at Oroville then moved to Reno in 1967. He is a senior in the electrical engineering dept. and will graduate in June.

and gravitational influences and the ballistic coefficient which is a function of the projectile's size and weight.

Cooper resides in Carson City with his wife, Karen, who is employed in the State of Nevada central data processing department.

Larry G. Yori was born in Reno and has resided here for all his 21 years. He graduated from high school in 1968 and entered UNR the same year. He is carrying 19 units and expecting to graduate in January, 1973.

Yori became interested in electronics at high school. He supplemented his electrical courses with mathematics and steered toward a collegiate engineering curriculum.

Larry directed his engineering courses toward digital circuitry. This deals with measuring, counting and computing by binary methods. The implementation of binary theory with electronic circuitry is one of the newer developments of electronic technology.

His paper is "An Auto-Ranging Technique for Digital Counters."

He built a 50 megahertz digital counter employing the technique outlined in his essay. The machine measures up to 50 million electrical variations per second and displays the measurement to automatic six-digit accuracy.

He works at Lynch Communications Systems, a company

nelled him into electronics. After basic training he attended Keesler technical school in Mississippi. His air force career consisted of ground radio and radar maintenance. In 1965 he transferred to Fallon Air Station where he was engaged in the SAGE telemetering system. He attained the rank of staff sergeant and was discharged in 1969 and entered UNR. He is a senior in electrical engineering and will graduate in January, 1973.

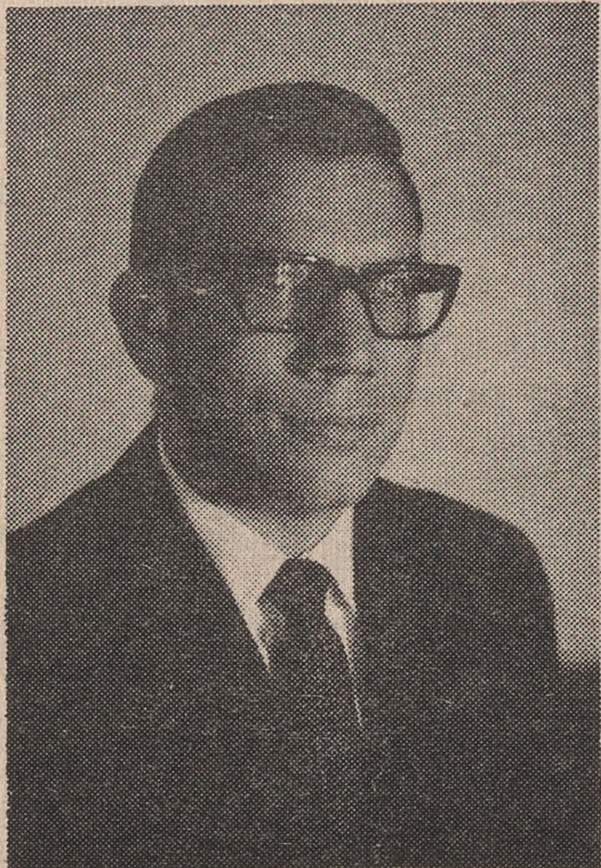
Dayton's paper, "The Use of Multi-Junction Semi-Conductor Devices for High-Efficiency Rectification of A-C Current," is on a new approach to a-c-to-d-c power conversion.

He and his wife live in Sun Valley where Birney takes an active part in civic affairs. During off-hours he works at KCRL-TV.

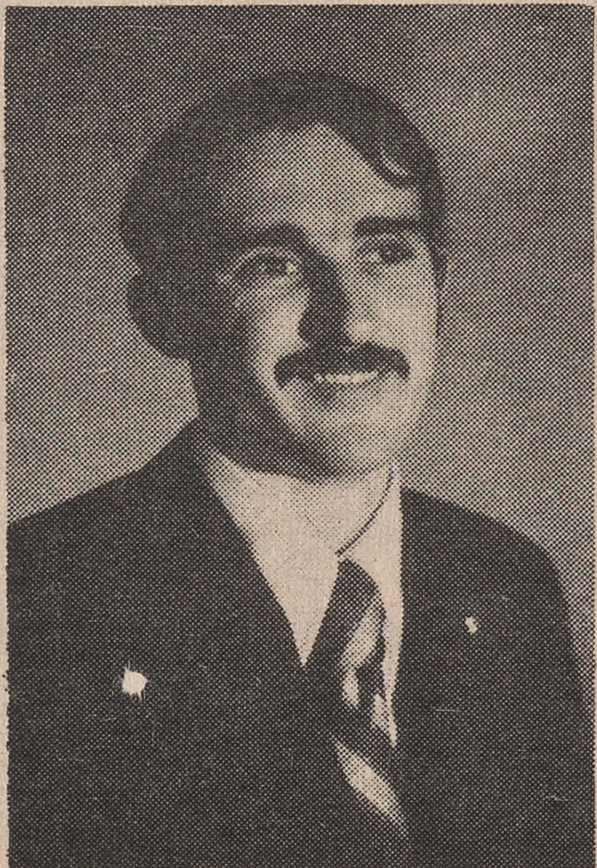
Michael W. McKnight was born in Las Vegas and moved to Fallon in 1956 where he owns a 40-acre ranch. He graduated from Churchill County High School in 1966 and entered UNR the same year. After attending for two years he left the university to go on a two-year mission for his church.

McKnight is a Mormon. As a missionary he worked in various localities in Colorado, New Mexico and Texas.

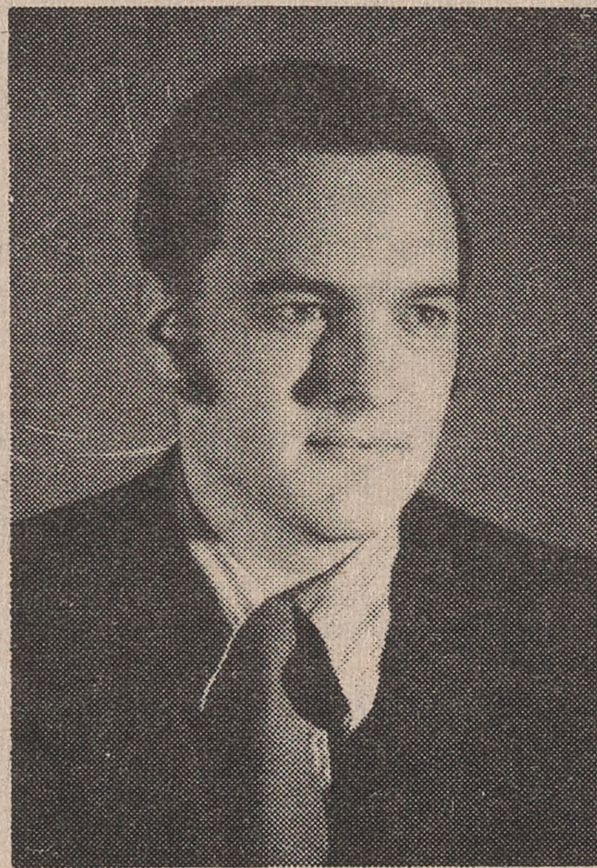
Following the completion of his mission he returned to UNR where he is now a junior scheduled to graduate in June next year.



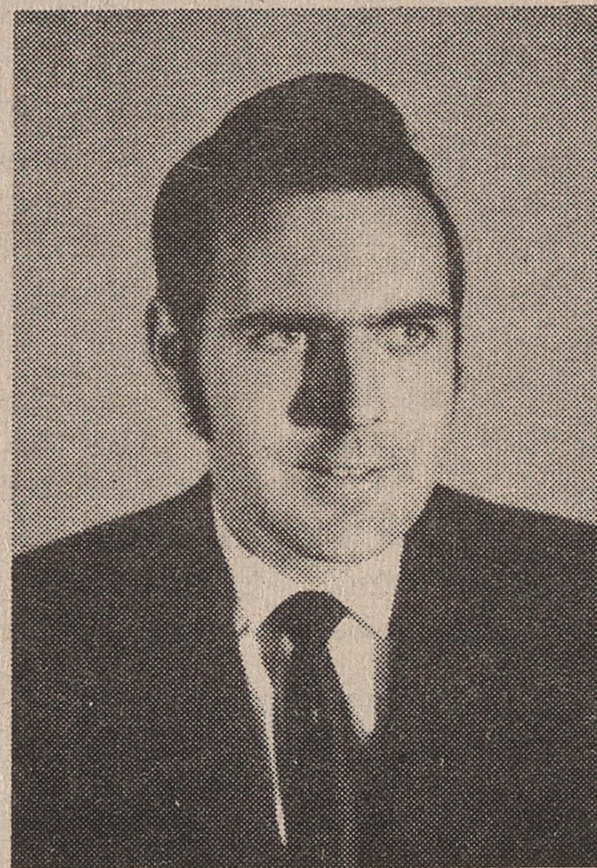
Michael McKnight



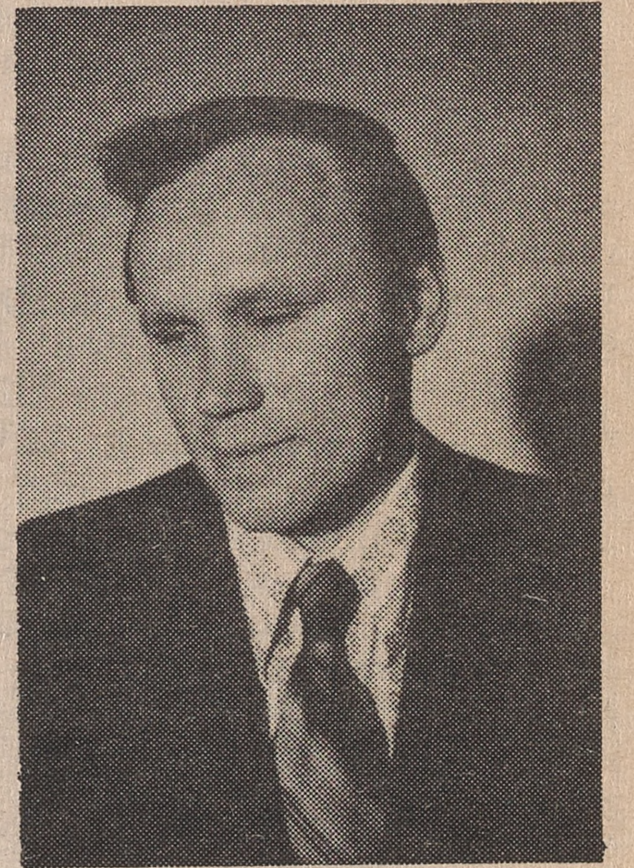
Larry Yori



James Cooper



Birney Dayton



Victor Ivashin

The first describes a device to assist therapists working with children with speech disorders. It 'rewards' the patient by flashing lights on a display console when he forms a word or phrase correctly. For an incorrect response a buzzer sounds. The device also contains a color organ which responds with different colors when the child pronounces different letters of the alphabet. Vic has a working model of the machine and it is being used in Yerington by Dr. Robert Anderson of the Nevada state speech therapy

His paper is entitled "A Computer Study of Small Arms Ballistics" and deals with the measurements of velocity and trajectory of small projectiles in the atmosphere. The computer program uses empirical derivations of differential equations surrounding the phenomena.

Given the size and weight of a bullet and the muzzle velocity, Cooper can predict its position and force at any moment in time. The program also takes into consideration the effects of the temperature, humidity, and atmospheric density, the altitude

which builds telephone equipment. He is assigned to the computer division where he has received valuable professional experience.

Birney D. Dayton was born in San Francisco and raised in the Big Sur where his father was a lumberjack.

He graduated from Hollister High School in central California at age 15. He entered the University of Santa Clara the same year but dropped out and went to work for Hollister High School as a school bus dispatcher. He worked there until he joined the Air Force in 1965. The Air Force chan-

His paper deals with a power line problem. "A Sampling Technique for Measuring Standing Waves on Transmission Lines" reveals a method by which power companies can match power loads to delivery capabilities thus increasing efficiency and providing a savings to customers.

McKnight and his wife, Sharon, were married in the Mormon Temple at St. George, Utah. He commutes daily to Reno from his Soda Springs ranch. On non-school days he works as engineer for Sierra Pacific Power Co.

Conference on juvenile delinquency

Two UNR students, Vida Dietz and Pat Murphy, will be participants in a four day conference on delinquency and youth services to be held in Big Sur, California April 6-9.

The conference, sponsored by the Department of Health, Education and Welfare, (HEW), is a regional follow-up to a national training session held last September in Colorado which involved two young people from each state who were to become involved in juvenile delinquency prevention planning. The Big Sur conference will include these youths, as well as, various state officials and those involved with delinquency problems.

The conference is being developed by the Youth Involvement Program of Los Angeles

with funding from the Youth Development and Delinquency Prevention Administration. Project director, Dr. Dale Garell and conference director, Ms. B. J. Johnson, have conducted two similar regional conferences in the South and Mid West. Research assistant Steve Kaplan and staff members Marty Hatmama, and Theresa Purversa have all had considerable experience with youth conferences.

One of the goals of the program is to help co-ordinate communication between the young people and "power position" people within the respective states, as well as, to provide training assistance to the states in the area of youth involvement.

Democratic youth hold meeting

The Washoe County Democratic Youth Caucus will hold an organizational meeting tonight at 5 p.m. in the student union.

The meeting will be to provide information on housing and transportation for the state convention in Las Vegas later this month and to discuss the agenda for the

county-wide Democratic caucus being held at 7:30 p.m. tonight, at Wooster High School.

Students who participated in the recent Democratic Convention Youth Caucus are invited to attend as well as, any other interested young Democrats.

Special school during summer session

Robert L. Friedli, assistant professor of elementary and special education at UNR, believes schools can be fun and offer children enjoyable experiences.

As the director of the UNR's Experimental Summer School for Children, scheduled for June 26 to Aug. 18 at the Sierra Vista School in Reno, he plans to achieve these goals by implementing two unique concepts of curriculum planning.

According to Friedli's philosophy, the curriculum ought to recognize the dignity and uniqueness of the child and his multiple talents rather than focusing only of the "academic" talent. The thrust of the Summer program will be to help students develop cognitively and affectively beyond their present levels of performance, especially in affective dimensions.

Consequently, the experimental school will feature an open classroom design with an integrated curricular program. The classes, which will be non-graded, will use a team-teaching approach, and the school ex-

periences will be directly related to the developmental levels of children with special emphasis upon individual needs.

In order to adequately respond to these needs, Friedli will limit the enrollment to 120 children, so they can receive the full attention of the large staff.

The students will be grouped into three categories; early childhood (4 - 8 years), middle childhood (8 - 11 years) and pre-adolescence (11 - 12 years). Friedli said these groupings are flexible and the child will be allowed to move from one group to another.

A special feature of the experimental school will be the inclusion of other college departments in the program. Counseling and guidance personnel services will furnish counselor-interns and students from art and music may be drawn in to assist in programs.

For an application form, or for further information contact Dr. Richard T. Dankworth at the Summer Session Office, Room 204 Morrill Administration, University of Nevada, Reno, or call 784-6593.

Eleventh Shakespearean festival

The eleventh season of the Utah Shakespearean Festival will be geared to present Shakespearean drama at its best and to offer special educational opportunities in Elizabethan drama.

Plays will be seen this year on the newly completed permanent outdoor theatre.

The festival will run from July 13 to Aug. 12 for a total of 27 performances, six more than last season.

The festival will have access to a larger number of actors this season because of its membership in the URTA (University Resident Theatre Association), affiliated with the ATA (American Theatre Association).

"Actors chosen from URTA auditions in Chicago and Washington, D.C. will make up a large part of the acting company," Mr. Adams said. "By having access to over 800 actors from acting schools, colleges, and

universities, we will be able to select a very talented company for the 1972 season."

Mr. Adams said all actors come to the festival on a non-professional basis.

One of the major goals of the festival has been to offer entertaining as well as educational exposure to Elizabethan drama. This year for the first time, a balanced program of lectures, discussions, and playgoing will be offered as a college credit class in Shakespearean seminar.

The seminar will be held from July 17 through Aug. 4, centering around the three plays being presented this summer: "Comedy of Errors," "King Lear," and "The Winter's Tale."

Information about the seminar can be obtained by writing Dr. R. A. Christmas, Director, Shakespearean Seminar, SUSC, Cedar City, Utah, 84720.

Announcements

Today

- 3-6 p.m.—Rap session with Mrs. Medgar Evans. Travis Lounge, Student Union.
- 4-5 p.m.—Christian Science. East-West Room, Student Union.
- 6-7:30 p.m.—Spurs. Hardy Room, Student Union.
- 6-7:30 p.m.—American Indian Organization. Ingersoll Room, Student Union.
- 8 p.m.—Mrs. Medgar Evans, sponsored by AWS and ASUN. Gym.

Wednesday

- Noon-1 p.m.—Blue Key. Ingersoll Room, Student Union.
- 2-4 p.m.—Campus Crusade. Truckee Room, Student Union.
- 3-5 p.m.—Housing Review Board. Mobley Room, Student Union.
- 3-5 p.m.—Teacher Education Board. Hardy Room, Student Union.
- 3-5 p.m.—Phi Kappa Phi. Las Vegas Room, Student Union.
- 3-7 p.m.—Finance Control Board. Ingersoll Room, Student Union.
- 7-10 p.m.—Parachute Club. Las Vegas Room, Student Union.
- 7-10 p.m.—ASUN Senate. Travis Lounge, Student Union.

Thursday

- 4-7 p.m.—ASUN Activities Board. Ingersoll Room, Student Union.
- 6-8 p.m.—Nevada Friendly Hebrews. Mobley Room, Student Union.
- 7-8:30 p.m.—Broken Spoke Wheelmen. Las Vegas Room, Student Union.
- 7:30 p.m.—Mackay Day Committee. Hardy Room.
- 7:30-10 p.m.—Student Accounting Society. Ingersoll Room, Student Union.
- 8-10 p.m.—Asian Alliance. Sierra Room, Student Union.
- 8 p.m.—"Teaching Sign Language to Chimps." Church Fine Arts Theatre.
- 8-10 p.m.—UNR vets. Travis Lounge, Student Union.

Tomorrow will be the last day for the Appalachia display now in the hallway of the Student Union. This display, by the contemporary collections division of the UNR library, will next appear at the Washoe County Library May 1.

CAREER CALENDAR

- April 5-6, Wed.-Thurs.—Grove Valve & Regulator Co.; Any A&S; Mrkt.; Geol. Engr.; CE, ME.
- April 6, Thurs.—First National Bank; Any Bus.
- April 7, Fri.—Coast Guard; All Majors for Open Recruiting.
- April 10, Mon.—Coast Guard; All Majors for Open Recruiting.
- April 10, Mon.—Clark County School District; EDUC: Elem.; Sec. (most majors); Spec. Educ.
- April 11, Tues.—Clark County School District; EDUC: Elem.; Sec. (most majors); Spec. Educ.

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A symposium of campus news

SMOKE BOMB SET OFF

Smoke poured out of an unknown source in the basement of the Church Fine Arts building and one student just sat back and watched.

A different report of what happened came from everybody asked. Somebody said a water pipe had broken and another obviously frantic woman said the department arc welder had exploded.

Just how an arc welder can explode can't be explained; but Robert Morrison, the sculpture teacher, had just given a lecture on how to use an arc welder, so it seemed a natural response.

The smoke was created by Michael DeLarwell, a sculpture student who had planted a smoke bomb to watch student's reactions and given them an idea of what the artist he was studying was concerned with. The artist was Bruce Naumen, and DeLarwell was demonstrating Nauman's concern with people's reactions to environmental happenings. After the class adjourned to the patio, DeLarwell explained what he was doing and discussed the episode with the class.

WATER STUDIES AVAILABLE

Two research reports on the water resources of warm Springs Valley are available to the public in the library of the Mackay School of Mines, according to Mrs. Mary Ansari, Mackay librarian.

Both papers present studies of the water problems and potential in the area being considered for development as the site of a new city by the McCulloch Oil Co. of Arizona.

The first report, "Water-Resources Appraisal of the Warm Springs-Lemmon Valley Area, Washoe County, Nevada," by F. Eugene Rush and Patrick A. Glancy, was published in 1967 by the Nevada Department of Conservation and Natural Resources in cooperation with the U. S. Geological Survey. It is listed as Water Resources Reconnaissance Series Report 43.

The second paper, "Water Resources of Warm Springs Valley, Washoe County, Nevada," was written by Robert Jerrell Glenn as his thesis for a professional degree in Geological Engineering.

MEDICAL ILLUSTRATIONS COURSE

A new program, Medical Illustrations, has been included in the UNR curriculum on an independent study basis.

Its purpose is to train qualified illustrators of human anatomy for the health science field.

There is at present a growing need for three-dimensional reproductions of particular aspects of the human body for medical journals, text books, and graphic charts, according to Richard Licata, chairman of the anatomy department.

Begun on a trial basis, the program now has four students actively participating, all of whom have had prior experience.

Licata, using the works of Frank Nedder, foremost medical illustrator at the present time, as a model, spent much time with the students in the human anatomy laboratory working in detail with the human cadavers.

The students are allowed to select their own courses, mindful that they are working for a dual major—art and anatomy.

This approach is in keeping with the interdisciplinary attitude of the new medical school. The anatomy and art departments are jointly supporting the program.

This is somewhat different from universities where the program has been adopted on a permanent basis. At these universities the student is granted a bachelor of arts degree in art, with a minor in medical illustrations.

Licata feels, with enough student interest, the program could be promoted to a permanent status at UNR.

AED TO ATTEND CONFERENCE

At least six members of Alpha Epsilon Delta will travel a national conference being held on April 6, 7, and 8, according to the organization's president, Allen Eng. AED is an honorary fraternity for undergraduates in the field of medicine, dentistry, medical technology and biology.

SIEGEL TO CONDUCT SURVEY

A survey of approximately 100 UNR students is being conducted to determine attitudes and reasons for non-participation in the honors program by Richard Siegel, honors program director.

For the fall 1972 program Siegel has set up seminars in "The City," "The University," "Science and Culture: The Automotive Era" and "The Creative Arts: Communications Arts." Each subject is offered continuously, but a different area is studied each semester.

Sections of regular classes to be given honors credit are English 102, English 291, physics 209-210, math 181, political science 103, and economics 201.

Enrollment and recommendations for the spring 1972 honors program were discussed at a meeting of the honors board.

The honors sections of regular courses English 102, English 291, political science 104 and economics 202 had a good attendance this semester, with 176 students. The honors seminars had a poor attendance, with only 50 students.

HUG ELECTED TO COMMISSION

Proctor Hug Jr., general counsel to the University of Nevada System, has been elected to the board of directors of the Federation of Regional Accrediting Commissions of Higher Education.

Hug was one of four public members elected to the board at the federation's recent meeting in Chicago.

President N. Edd Miller was elected to the organization's executive committee. He is chairman of the Higher Commission of the Northwest

Association of Colleges and Secondary Schools.

SCHOLARSHIP FOR NURSING

Because of the tender, loving care received while a medical patient in Reno, Mrs. Catherine Urban of Saratoga, Calif., has established a scholarship fund in the Orvis School of Nursing at UNR.

Mrs. Urban recently had to spend several weeks in a body cast in Reno because of a fall.

She said she established the G. A. Storrs Student Nurse Award "in appreciation of the kind and thorough care received from doctors, staff and personnel at both Washoe Medical Center and the Elges Chateau, and the unstinting devotion of the Reno members of my family, in whose name the award is given." All members of the Storrs family are, or have been, students at the university.

The Storrs award will be granted annually to a sophomore student who has financial need and demonstrates capabilities of patience and gentleness in nursing.

EDUCATION GRANT

The UNR College of Education has been awarded a National Science Foundation grant for an In-Service Institute in Environmental Science Methods.

The institute will be held on 16 Saturdays throughout the 1972-73 school year and will be directed by John Trent of the secondary education department.

Thirty secondary natural and social science teachers from the Reno area will be selected for participation in the institute. The purpose is to give teachers a better understanding of the various aspects of environmental problems so they will better be able to present an interdisciplinary picture of the problems to their students.

MUSIC FOR GYMNASTS

Ronald Williams, pianist and composer at UNR has been commissioned to compose 16 musical pieces for gymnastic performances.

Coaches and performers in Reno, Fresno and Seattle have asked Williams to write original music for performance routines as a result of his recent recording of gymnastic music made in cooperation with Dale Flansaa of the Reno School of Gymnastics.

A number of Williams' compositions will be used by women who recently have placed high in national competitions and by some trying out for the U.S. gymnastic team to the 1972 Olympic games in Munich.

FRAT COMPLETES PROBATION

Phi Delta Alpha fraternity at UNR has completed its probationary period and is now a full-fledged chapter of the national Phi Delta Theta fraternity.

The general council of the national group notified local members last week their application for installation as the Nevada Alpha chapter this spring was approved unanimously.

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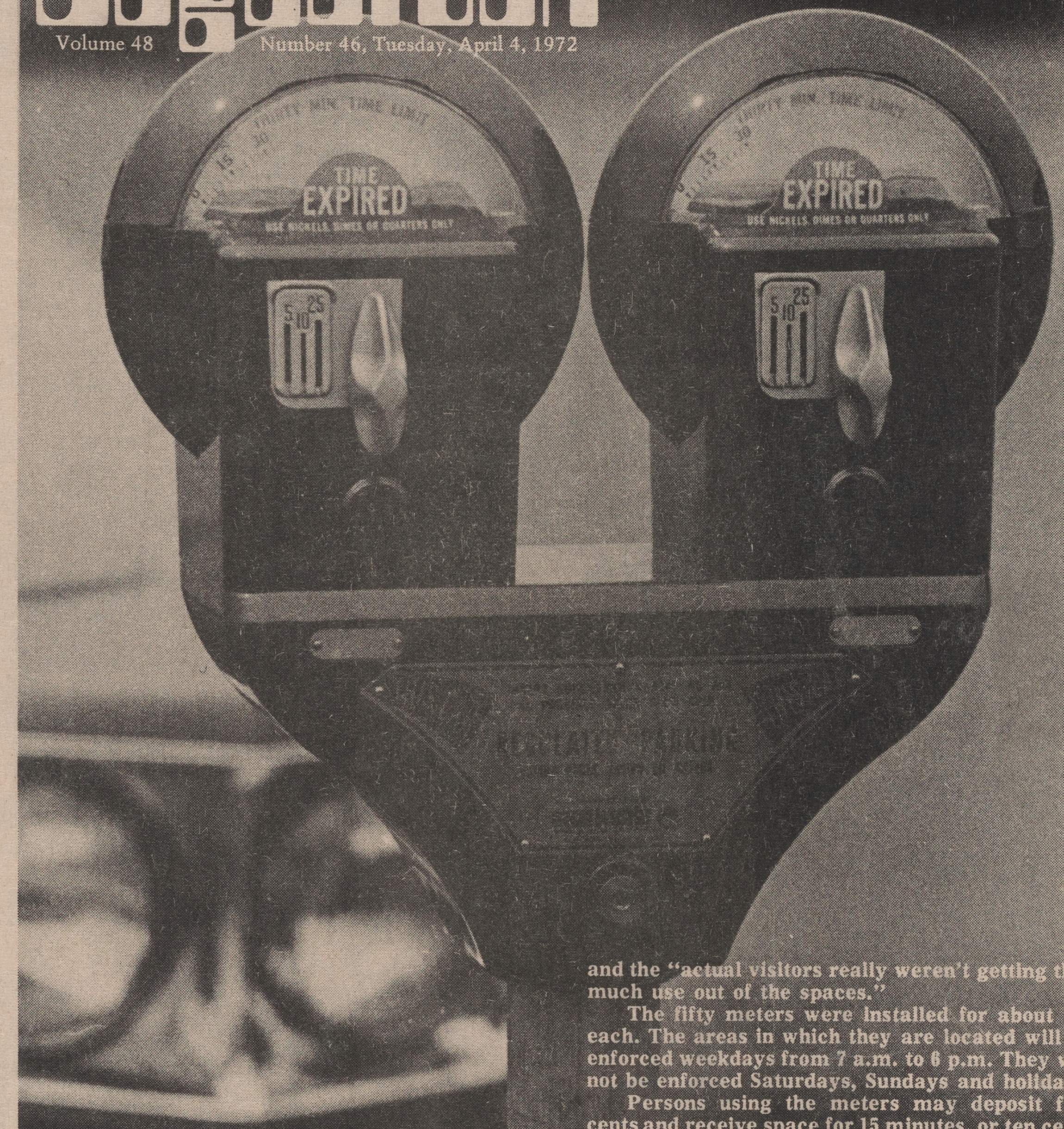
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staff
student

Send to us any ideas, suggestions or complaints you may have regarding parking.

Send information to:

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P.O. Box 8037 Univ. Stat.

Sagebrush
Volume 48 Number 46, Tuesday, April 4, 1972



Parking meters were installed last week on campus in all visitor and timed parking areas. Robert Malone, chief of the university police department, said the meters were installed in an attempt to get "more use out of the visitors' zones." Previously the zones hadn't been utilized to the fullest extent by visitors because people were parking in the zones for extended periods of time,

and the "actual visitors really weren't getting that much use out of the spaces."

The fifty meters were installed for about \$45 each. The areas in which they are located will be enforced weekdays from 7 a.m. to 6 p.m. They will not be enforced Saturdays, Sundays and holidays.

Persons using the meters may deposit five cents and receive space for 15 minutes, or ten cents for 30 minutes. "For convenience" if a person has no other coin available, a quarter may be deposited and one still receives 30 minutes, the maximum time allowed.

Fines for those who choose not to use the meters will be \$3.

Malone said more meters may be installed if the first 50 are determined successful and "as more space for visitors becomes necessary."

Remember! Friday is last day to drop classes.