

University of Nevada, Reno

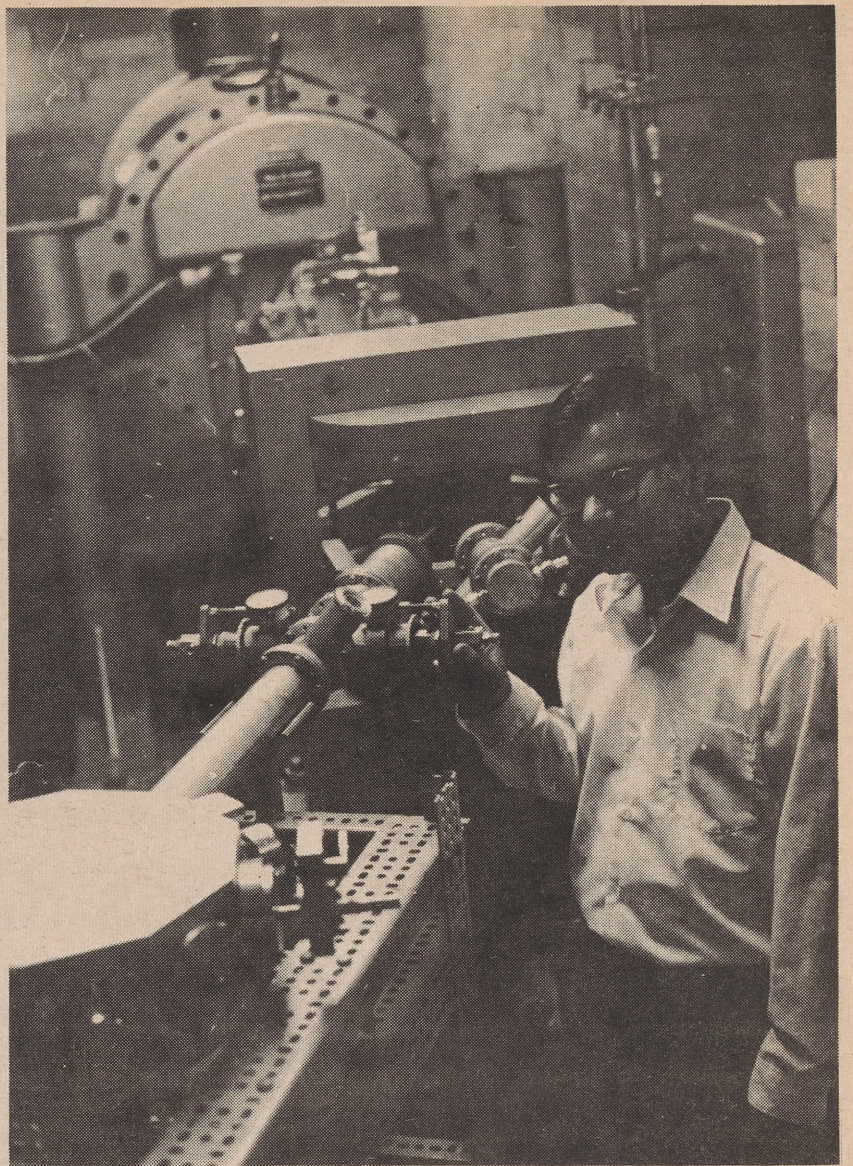
Sagebrush

Friday, February 23, 1971
Volume 47, Number 37

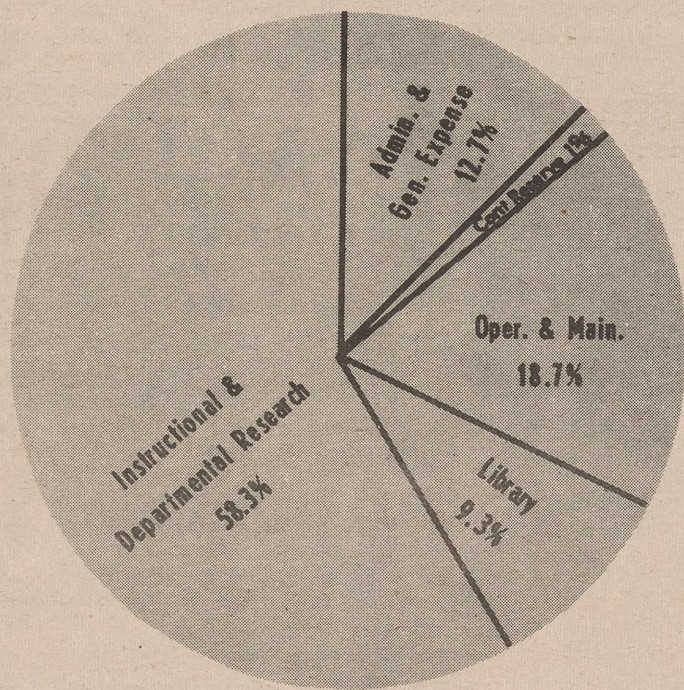
Reno, Nevada

detecting pollutants

see page 6



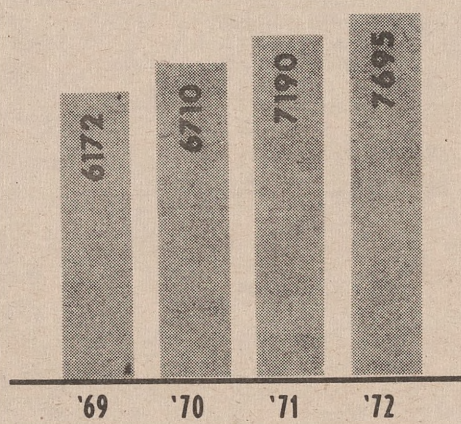
Deva Sharma examines apparatus used in tests of pollutants.



1971-1972
\$14,334,047

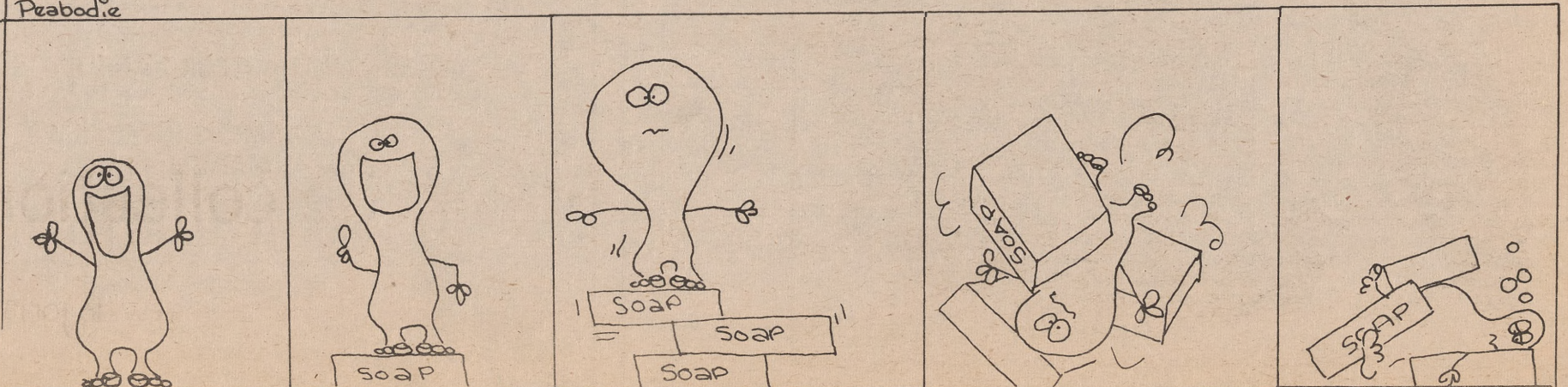
the budget

see page 3



ENROLLMENT

Peabodie



Lundemo ruled ineligible

John Lundemo, who announced his candidacy for ASUN president Friday, has been ruled ineligible for that office.

The Student Judicial Council ruled him ineligible Friday because a clause in the ASUN constitution requires "membership in the ASUN

for at least the two semesters prior to elections."

Lundemo has been a student at UNR for seven semesters with the exception of last year.

Judicial Council interpreted the clause to mean two semesters prior to the semester in which the elections are held.

Lundemo interpreted the clause to mean fall and spring semesters of this year—including the election semester.

It was, said Janice Miller, head of the Judicial Council, "a question of the intent or a strict reading of the statute."

She said the council researched the statute back to its first writing in 1968 and "as far as we could see, the intent and the strict reading were the same."

"The word 'the' is what does it. Without it, the statute could mean any two semesters," she said.

LUNDEMO said Sunday he plans to take his case before senate and that some of his supporters have organized a petition to try to get the students to reinterpret the clause.

"I feel this is a disenfranchisement of the students because all channels should be open for all people to participate in government," he said. "The spirit and intent of the law, in my estimation, was totally missed by Judicial Council."

Lundemo said, from what he knew, the new constitution was written in 1968 to make student government "more open, lenient so more people could participate."

Miller said she also thought the clause was written to open student government to more people. She said that before 1968, the constitution required membership for four semesters.

She said one idea might be to have the present statute stand, but allow elections board to rule on individual cases like Lundemo's.

"The idea, I'm sure was to keep out unqualified people. John, unfortunately, was caught by a technicality."

"Trends are changing. Students are no longer going to school four consecutive years. Perhaps a change should be made to accommodate these people," she said.

ASUN election

Filing for the following ASUN offices will open Feb. 24 at 8 a.m. and will close March 3 at 5 p.m.: ASUN senators, executive officers, class presidents.

Election Board statutes may be picked up in the ASUN office.

The primary election will be March 10 and the general election will be March 17.

Also on the ballot will be changes in the constitutional amendments.

Bill questions drinking policy

The legislature has dealt itself into the continuing saga of the UNR drinking policy. Zel Lowman, R-Las Vegas, introduced a bill into the Assembly Thursday which would prohibit the use of alcohol and dangerous drugs on campus, except for educational purposes.

Lowman was joined by five other assemblymen in introducing the bill: Richard Ronzone, R-Las Vegas; Joseph Dini, D-Yerington; Rawson Prince, D-Ely; Virgil Getto, R-Fallon; and Hal Smith, R-Henderson.

Lowman said, "A number of us feel the university administration and Regents have stepped out of bounds by allowing this new liquor policy."

"It's not that I am against drinking, but we're interested in protecting those who do not drink and in protecting . . . state property."

Harold Jacobsen, Carson City Regent, said, "I don't think the legislature should pass laws governing the university."

"The Regents went along with a committee that studied

the problem on campus—a committee composed of faculty, administrators and students."

Lowman's bill also prevents the use of alcohol and dangerous drugs on other state school property. It was referred to the Assembly Judiciary Committee.

Frat helps in drive

Members of Lambda Chi Alpha distributed 1,000 coin canisters in the Reno-Sparks area for the benefit of the Easter Seal Society for Crippled Children and Adults of Nevada, Inc.

The fraternity members will pick up the canisters immediately after Easter Sunday, April 11.

Fraternity President Joe Handy said, "The fraternity is always looking for worthwhile projects that will help others in the community. After visiting Easter Seal's treatment center in Sparks, we were sure working with the Society would be a good project."

91 with 4.0

About six per cent of the UNR students made the honor roll during the fall semester.

The honor roll, made up of students carrying a full academic load with no less than a 3.5 GPA, contains 396 names. Of these, 91 students, including 10 first-semester freshmen, made perfect 4.0 averages (all A's).

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MARCH 4, 1971

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by MIKE GRAHAM

The legislature is in session and, consequently, the only word heard in the hallowed halls of the administration is "BUDGET."

Things do not look good for the university this year. The Regents asked for \$69.8 million, but Gov. Mike O'Callaghan recommended \$48.8 million—a loss for the biennium of \$21 million for the system.

The budget request for the Reno campus was cut by \$3.2 million. The UNR budget was for \$14.3 million, but the governor recommended \$11 million.

The governor's recommendations do represent an \$800,000 increase over the past budget.

These recommendations were consistent. No new programs were funded, research budgets

objective during the legislative session will be to seek restoration of the cuts made in the executive budget. . ."

The main focus of this effort will be at the Assembly Ways and Means Committee hearing today and the Senate Finance Committee hearings tomorrow.

Chancellor Neil Humphrey said the administration's priorities will be first to restore funding for salary increases and to restore the library budget.

THE PRIMARY formula used by the university to budget for instruction and research is a student-faculty ratio. The ratio used by the governor is 20 full time students to one full time faculty (this, is an average).

The university budgeted on a ration of 17.8

over the biennium.

THE GOVERNOR agreed with the university's goal, but recommended a different increase schedule. He recommends a one per cent increase the first year and a five per cent increase the second.

Humphrey said this represents a loss of over \$750,000 for salary increases and the governor's recommendation is not sufficient to maintain a fourth place ranking.

The second priority for the administration is the library budget. The request for UNR was \$2.78 million—the governor recommended 1.5 million. Of this request, \$738,000 was for new book acquisition. The governor cut this budget to zero, and recommended a separate, appropriation of \$750,000 for the whole university

The word is 'budget'

were cut and no new staff positions were provided for.

The Reno campus, in fact, lost 21 teaching positions.

FACULTY INFORMATION Bulletin No. 71-2, issued by the chancellor's office Jan. 21, explains how the university's budget request was developed and the governor's recommendations:

"The University's 1971-73 budget request was developed as a performance budget using the instructional programs as the base measure for direct costs and utilizing various formula concepts. In many areas, the governor's recommendation used the university formula concept but changed the parameters. In other areas, the formula concept was abandoned and dollar allocations made."

The bulletin continued, "The university's

students to one faculty member for 1971-72 and 18.3:1 for 1972-73. These ratios were in line with a ten year plan developed in 1968 which was designed to bring the ratio to 20:1 by 1978.

The actual ration for 1971, though, is 19.25:1 for the system—UNR 18.3:1, UNLV 20.1:1. The governor disregarded the ten year plan because of the high ratio now in effect and moved to the 20:1 ratio. The resulting change in formula cost the Reno campus 21 positions.

None of the faculty will be terminated. Faculty bulletin No. 11-2 explained: "With the transferring of many of the Nevada Technical Institute programs to the Western Nevada Community College about 15 professional employees will be transferred. In addition, there are 7 professional positions vacant."

The university is trying to maintain a position of fourth among the Western states in salary scales. To do this, the chancellor's office recommended a 6½ per cent increase in salaries

system for new books. It is doubtful if the Reno campus would get more than half this figure.

The library operating budget request was also cut by \$541,422.

The library budget, primarily the request for new book funds, is based on a universally used formula. This is the Clapp-Jordan formula which, though complicated, determines the number of books a library should have based on the number and type of programs offered at an institution.

According to this formula, the Reno library is 200,000 volumes short of what is necessary to maintain proper reference material for the programs offered.

The table below is a summary of the system budget—it includes the 1970-71 work program, the Board of Regent's requests for the 1971-73 biennium and the governor's recommendations:

Work Program	1971-72		Reduction From Bd. Request		1972-73		Reduction From Bd. Request			
	B. of R. Request	Governor's Recommendation	\$	%	B. of R. Request	Governor's Recommendation	\$	%		
1969-70	1970-71									
SUMMARY OF BUDGET										
System Administration	314,382	325,244	401,784	370,215	31,569	7.8	422,055	383,720	38,335	9.0
University of Nevada, Reno	10,652,723	11,338,523	14,334,047	11,039,888	3,294,159	22.9	16,299,903	11,914,820	4,385,083	26.9
University of Nevada, Las Vegas	5,009,960	5,722,658	9,131,492	6,459,306	2,672,186	29.2	11,099,365	7,168,868	3,930,497	35.4
Community College Division	191,100	250,100	2,950,549	1,107,500	1,843,049	62.4	3,791,976	1,333,000	2,458,976	64.8
Desert Research Institute	219,217	229,780	516,644	300,000	216,644	41.9	592,459	300,000	292,459	49.3
Statewide Programs, UNR Administered	2,901,900	3,041,732	3,611,941	3,151,339	460,602	12.7	3,786,831	3,372,923	413,908	10.9
Statewide Programs, UNLV Administered			145,447	20,000	125,447	86.2	189,869	30,000	159,869	84.1
Community College Div. Extension			18,000	- 0 -	18,000	100.0	19,000	- 0 -	19,000	100.0
Statewide Programs, Jointly Admin.			134,750	- 0 -	134,750	100.0	69,400	- 0 -	69,400	100.0
System Computing Center	407,554	430,684	893,348	600,000	293,348	32.8	1,505,821	630,000	875,821	58.1
N. D. S. L. Program			25,000	25,000	(25,000)			25,000	(25,000)	
Classified & Tech. Salary Adj.			263,010	263,010	(263,010)			353,555	(353,555)	
TOTAL UNIVERSITY OF NEVADA SYSTEM	\$19,696,836	\$21,338,721	\$32,138,002	\$23,336,258	\$ 8,801,744	27.3	\$37,776,679	\$25,511,886	\$12,264,793	32.4

Symposium on Vietnam

A symposium on Southeast Asia will be held Thursday in the Travis Lounge. The program is as follows:

12 noon—Two films entitled "People's War" and "Time of the Locust." It will be followed by a panel discussion conducted by Tom Hecht, Chris Jenkins, Tran Quanh Tuyet and Robert Winzeler.

2:30 p.m.—Repeat of the two films and panel discussion.

7:30 p.m.—Open discussion with Hecht and Jenkins entitled "The People's Peace Treaty: What Citizens Can Do to Effect our Asian Policy."

Tom Hecht is the national secretary of the New University Conference.

Chris Jenkins is a former Vietnam volunteer in the International Voluntary Services. He was the delegate of the Committee of Returned Volunteers and the Committee of Concerned

Asian Scholars to the Sixth Stockholm Conference on Vietnam, Laos and Cambodia.

Tran Quanh Tuyet is a Vietnamese social worker

studying in the United States.

Robert Winzeler is a faculty member in the department of anthropology at this university. He is a Southeast Asia specialist.

Letters policy

Guest editorials and letters to the editor of the Sagebrush are welcome. Such contributions will be printed as space allows.

In order to be printed, letters and guest editorials must be typed and double-spaced. The articles must be signed but names will be withheld by request. No contribution will be refused because of its point of view.

Letters and guest editorials should not exceed two typewritten pages. All correspondence should be addressed to the editor, Box 8037, University Station, Reno, Nev. 89507 or brought to the Sagebrush office in the basement of the Student Services Center.

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editorially...

No show

LEGISLATORS, so terribly concerned when something goes wrong at the university, are not to be found when something right is done.

Such was the case at the symposium on the university held Saturday. About 14 legislators were invited by Dean of Community Relations Sam Basta. Three said they would come, but in the end not one actually bothered.

Evidently the legislators were more concerned with weekend events in Carson City than with learning about their university. The symposium itself, televised to the community, was an attempt to bring about an understanding as to what the university is all about.

The legislators should have been there; but they weren't.

THIS IS NOT the first time legislators have ignored this campus until something occurs they don't like.

A case in point is the legislative disgust with the recently enacted drinking policy, which was finally passed by the Regents after more than three years of study and debate.

The policy, which managed to survive that far, met with the approval of students, administration and Regents alike. It allows 21-year-olds to drink in their dorm rooms, but it will be reviewed in two months by the Regents.

Six assemblymen, who were not concerned with the formulation and years of debate over the policy, have decided to strike. So they sponsored a bill, AB372, which makes it unlawful for a person to bring liquor, among other substances, on campus.

Where were the legislators when the policy was being formulated? Do they have an idea of the hours many persons spent working on it? Are they even aware of other campuses' drinking policies, many of which are similar to ours?

UNINFORMED legislators did not show at a symposium on their university.

Six righteous assemblymen didn't participate in the drinking policy formulation.

It is therefore doubly tragic that these assemblymen and their peers in the legislature would rather make laws about the university than learn about it.

These legislators' insensitivity to the needs of the university is evident. Those students who are voters or who will be should make their views known.

WRITE LETTERS, telephone or send a telegram to your representative urging the defeat of AB372.

Don't wait

THE SYMPOSIUM on the university Saturday was a fountain of beautiful ideas: orient the campus to the future; open the campus to all ideas and inquiry; emphasize learning, thinking—not memorization and teaching; expand into the community, use it as a laboratory; design the university to develop not just technical competence, but cultural growth and human sensitivity; innovate, experiment, make the status quo justify itself.

The symposium ended Saturday. Don't let the enthusiasm and conviction in those ideas die.

Stop defending ideas and convictions. Start living them.

The university is dying, stagnating. Administrators, faculty, students and even the Regents are all defending their freedom, their power. Stop defending your freedom and power—start exercising it.

EVERYONE believes the campus must change. Everyone is waiting for it to change. Stop waiting.

Students, go to your teacher, department chairman or an administrator. Tell him what you want changed. If he says no, ask why. Make him justify that "no." Don't just talk to other students.

Faculty, don't wait for the students to come to you. Find him, tell him what you think must change. Ask him. Involve him.

Administrators, go see the students and faculty. Ask for their ideas. Listen to them. Answer their questions.

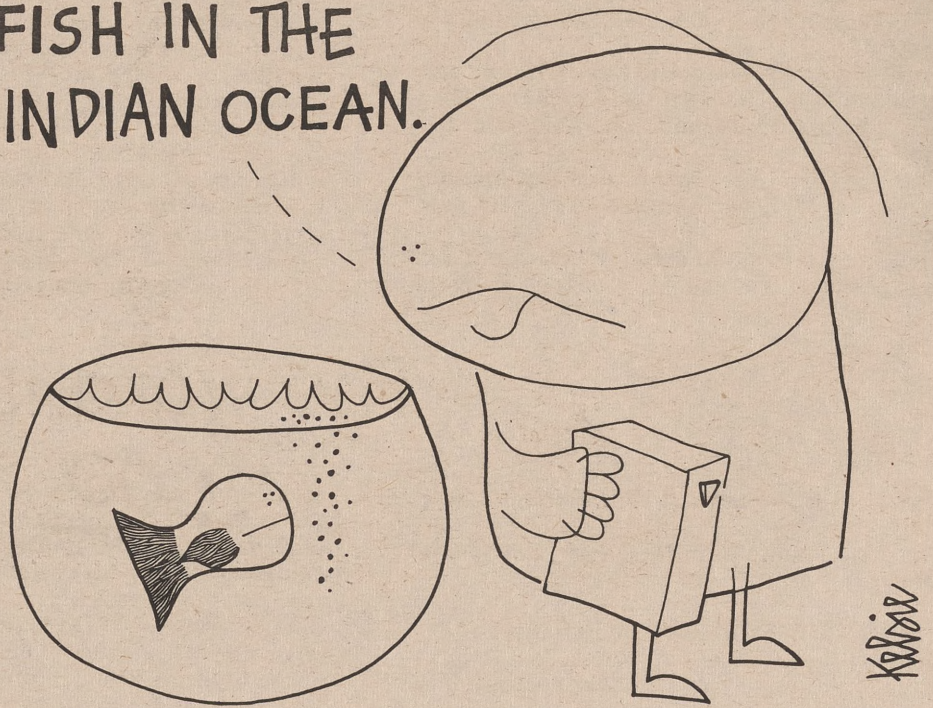
Members of the community, you too have a stake in this campus. Ask your questions. Demand answers. Say what you believe.

Don't wait for somebody else to do it. He won't.

Sagebrush

Sheila Caudle, editor; Mike Graham, assistant editor. Published by ASUN at the Sparks Tribune twice a week. Box 8037, University Station. Phone 329-0249. George Caudle, bus. manager.

NOW BE A GOOD GOLDFISH
AND EAT YOUR GOLDFISH FOOD,
JUST THINK OF ALL THE STARVING
FISH IN THE
INDIAN OCEAN.



Saturday morning caper

by MARK WHITE

Nye Hall had another series of fire alarms Friday and early Saturday morning (1 a.m.) which raised the total for the year to 22.

Now, although that's not exactly news to those of you fortunate enough to reside in Nye, it is worthy of consideration due to the fact that the culprit(s) involved in the Saturday morning caper just narrowly evaded being caught by a couple of wary, but not so agile, RA's and the fact that the staff is getting closer and closer to catching some of these 'pseudo-pyromaniacs' in the very acts which they have, so far, managed to perpetrate with an astounding degree of success.

TO THOSE of you not fortunate enough to reside in Nye, let it be known that the population of said dormitory is finding it less and less amusing to be called away from his (or her, in the interest of women's lib) slumbers at some ungodly hour looking like the devil (no pun intended) simply to satisfy the whims of some prankster.

In addition, it is becoming increasingly apparent that the occupants of this ill-fated dorm do not wish to keep paying (money) for the unnecessary services of the friendly (?) local fire department. Neither do these poor (literally) people wish to fork out for the installation of a wide variety of exotic detection systems which have been proposed to deter the wily alarm-puller.

For these, and many other, reasons, the monolith-dwellers have become much more reluctant to abide by the "see no evil, hear no evil, etc." doctrine and will, in fact, not go through a great deal of soul searching before revealing the identity of any person offending the tranquility of their domain.

\$8,000 ridiculous

Editor:

The recent proposal sponsored by certain individuals for the acquisition of some \$8,000 to re-open and renew the controversial subject of the Adamian affair seems absolutely ridiculous. What could possibly be gained or accomplished—except perhaps the probability of providing a trumped-up excuse for such radical, disrespectful actions which transpired during the Governor's Day ceremonies?

The supposition that a court hearing would reverse or alter the decision established and duly executed by those fully qualified to judge such matters is outright remote and devoid of realistic thinking.

Why would it be of any advantage to enlist the services of a Bay Area law firm—unless, of course, they are more adept and experienced in turning a courtroom trial scene into a cheap, sensational carnival sideshow proceeding?

BUT SO much for the subtler aspects of the situation.

Legally, one of these scoundrels is subject to a maximum of a \$500 fine and six months behind bars. However, that happens only if the evildoer is fortunate enough to be apprehended by the proper authorities. If the villain is brought to justice by the improper authorities, the maximum he will get is whatever his life insurance policy allows.

Exploring other fronts, we find things of a more serious nature are exposed. Since all residents of Nye must use the stairways when an alarm is sounded, there is a distinct possibility someone in a sleep-induced stupor could come stumbling down the steps, miss just one significant step and suffer a critical or even a mortal injury. What would it be like to have a charge of malicious mischief against you or one of your friends suddenly changed to INVOLUNTARY MANSLAUGHTER?

On a grander scale, for those of you that have already been responsible for tripping a false alarm, you must by now realize the frequency of these nuisances has not increased the peoples' willingness to leave the building any faster. In fact, it has hindered such desires.

What if there is a real fire one of these nights? What if a lot of your friends, thinking the bell is only another false alarm, are late getting out? What if they're too late? Do you think you could live with the knowledge you had helped kill some of your best friends? It COULD happen.

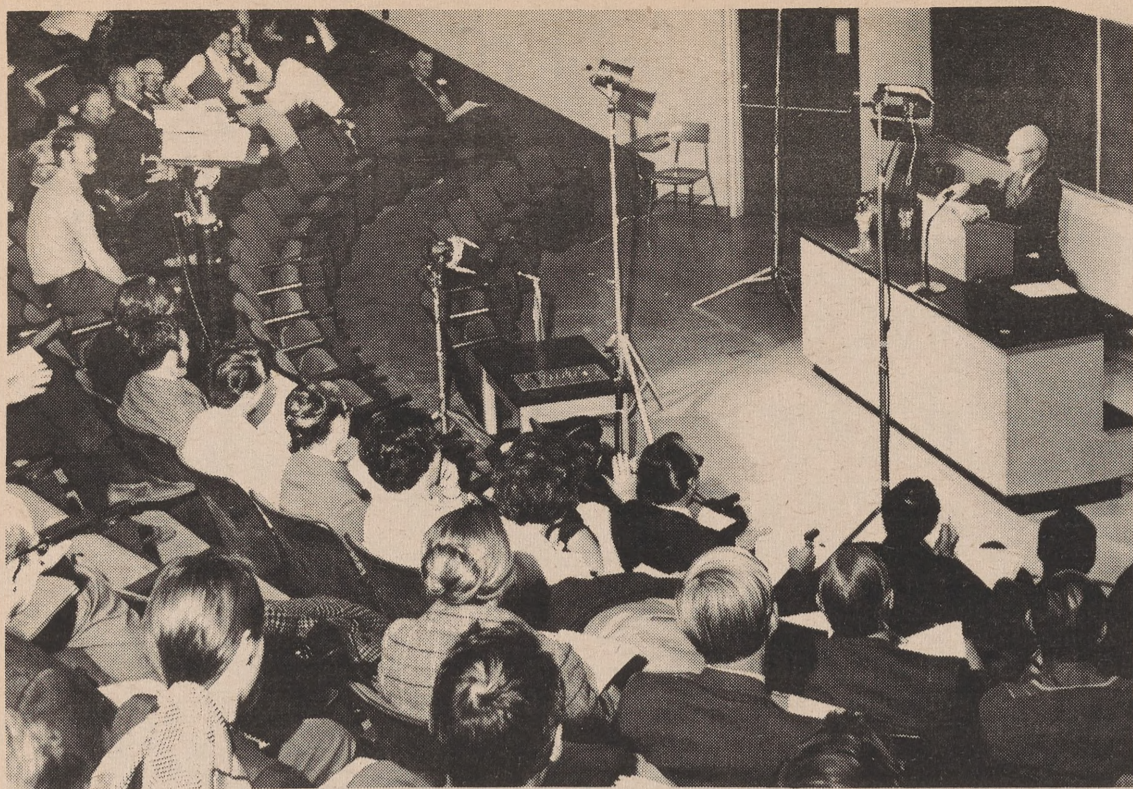
WHATEVER might lead you to think pulling a false alarm is fun, forget it. It just isn't worth it.

Surely there are better, more worthy projects for the expenditure of \$8,000. Besides, what would you get in return? A questionable, shallow revenge against those who represent that which you know in your heart is right? Is it really worth that much to rekindle the flames of controversy?

Actually there seems little doubt that the majority of students prefer to allow the Adamian episode to subside and also perceive no real justification for digging an issue that deserves to stay buried. Consequently, any attempt to exonerate Adamian would be like trying to change a flat tire—without any tools.

By the way, Nye Hall is not deteriorating. But if it were, then only the inhabitants are solely responsible for creating that dilemma—so, my dear friends, wake up, wise up, and painful as it may seem, grow up!

C.A. JACKSON
Custodian, Nye Hall



UNR President N. Edd Miller was one of the symposium speakers.

Old question with a difference

by GEOFF DORNAN

What is UNR's purpose?

What are its problems?

Those two questions have been debated among administrators, among students, among faculty and among members of the community for years.

Saturday, the two questions were debated again in a symposium titled "The Mission and Purpose of a University."

The difference: administrators, students, faculty and the community all got together, not just with themselves.

About 150 persons gathered in the Chemistry Lecture Building. Very few left, even though the symposium lasted from 9 a.m. to 5 p.m.

John Marschall of the Center for Religion and Life led off, explaining the symposium came out of a series of seminars last semester between representatives of all factions of the university and community.

Academic freedom, how the power to change the campus should be shared and who should set standards for change on campus were the three main issues defined by the seminars, he said.

Lt. Gov. Harry Reid spoke about the legal status of the university—a land grant college permitting students to select their specialization, but governed by elected Regents.

REID SAID the Regents' power to govern is "circumscribed on every side by legislative action." This plus the increasing demand for autonomy and power in decision making by the faculty and students lessens the independence of the university, he said.

President N. Edd Miller evoked more response from the others present. He differentiated between learning and teaching on campus. "Attention is now focused—or should be—on the process of learning, not memorizing; of thinking, not parroting; of developing of mind and of ways of using the mind, rather than on unquestioning acceptance of didactic pronouncements," he said.

He also said universities can no longer be relatively isolated from the community and its problems and that universities must change: "We must recognize that the traditional may not serve, just because it has always been that way."

Responding to Miller, Warren Martin from Berkeley (brought here to react to the speeches) said "most educational systems today are oriented toward the past." He said the university must think in terms of the future and must make the status quo justify itself.

Edmund Barmettler, chairman of Faculty Senate, said one problem is that the community finds it easy to adapt to technological change, "but extremely difficult to adapt to social change." He said the university has a definite responsibility to the community, but that it must "be kept unfettered and free."

IN REACTION, Warren Blankenship from Iowa Wesleyan said students should be required to "work and relate in the community to apply what they learn." He said this is already part of the curriculum in a number of colleges.

Blankenship also asked, "Can any institution be of the world and not be in the world?"

Frankie Sue Del Papa, ASUN president, described the university as "a center for inquiry and as a forum for uncensored debate."

It must be "as autonomous an institution as possible, free from external restriction as feasible.

"Yet we find the university governed ultimately by a Board of Regents and a state legislature, both of which must please their constituencies in order to win re-election. Thus the university finds itself restricted by the political whims of the state," she said.

She said the university has no defined direction, is divided internally and outdated in concept and organization.

The university, she said, must restructure itself to eliminate curriculum and requirement restrictions which inhibit a student's growth, eliminate grades as a method of evaluation because they depersonalize the student and emphasize memorization, not learning.

The university should be "a center of knowledge and culture—somewhere one can go to discover mankind, to explore human potential, to encounter ideas of all sorts, and to learn—to learn whatever is worth learning, to learn whatever one wishes to learn."

In response, Martin said the challenge to UNR should be to orient to the future. He said he would like to see a campus atmosphere where the educational experience was constantly questioned by faculty, students and administrators.

Martin said all factions should constantly question the relevance of classes and their content.

SKILLS SHOULD be mastered, but the university should concern itself with not only technical competency but also with spiritual growth and human sensitivity, he said.

A university oriented to the future instead of the past should make tradition justify itself instead of putting the burden of justification on change.

"The emphasis should be on learning, not teaching," he said.

Those invited stayed in the lecture room through the day, but many more watched it on television. The symposium was broadcast on cable channel 6.

What's happening

TODAY

2-5 p.m.—Lecture on European politics: Rudolph Werner. Travis Lounge.

3-4 p.m.—Code Committee. Las Vegas.

7-8 p.m.—Senior Class Committee. Ingersoll.

7 p.m.—Process theology: Dr. Frank Baur. Center.

WEDNESDAY

11 a.m.-1 p.m.—Student organ and piano recital. Church Fine Arts, Room 102.

2-5 p.m.—Traffic and Parking Board. Mobley.

4-7 p.m.—ASUN Finance Control Board. Ingersoll.

7-10 p.m.—ASUN Senate. Travis Lounge.

8 p.m.—Honors Board Lecture: Buckminster Fuller—"The Future of Humanity." Gum.

THURSDAY

Noon-10 p.m.—ASUN forum and films on Vietnam. Travis Lounge.

3-5 p.m.—Rally Committee Organizational meeting. East-West.

3-5 p.m.—Teacher Education Board. Las Vegas.

8-10 p.m.—Students International Meditation Society. Hardy.

8 p.m.—"Your Own Thing." Church Fine Arts Theatre.

Basketball: UNR vs. U. of Santa Clara. There.

Urban sewage: a matter of interest

New uses are being sought and developed throughout the country for urban sewage effluents, particularly as pertains to agriculture. Environmentwise such uses and recycling seem preferable to allowing the effluents to enter streams or lakes with possible detrimental effects.

Along these lines, the Plant, Soil and Water Science Division, College of Agriculture, and the Clark County Cooperative Extension office are studying the use of sewage effluent to irrigate two Las Vegas golf courses.

"The effort is not only accumulating information and data directly pertinent to the two courses currently involved," said Allen Boettcher, Cooperative Extension horticulturist in Clark County, "but will provide us background on which to base recommendations should such water be used in other areas.

"Right now these are the only two courses in the Las Vegas vicinity where the water is being used," he said, "but there is a future possibility that all courses or even parks in the area might use the effluent. Such might be the case as a result of the need to conserve water and recycle wastes as environmental necessities."

Ralph A. Young, chairman of the Plant, Soil and Water Science Division, explained testing of the effluent water quality has been done in cooperation with the Clark County Sanitation Department in its regular analytical procedure. This has included determination of such things as pH, nutrient levels and salt content. A special check is made each month, he said, for constituents of the effluent that the college considers important to plant growth and to soil conditions. Total salts, boron, nutrients such as

phosphorus, nitrogen and potassium and other elements are checked. In addition, two soil samples are taken from each green, one at depths of less than six inches or the top soil, and the other from 6 to 12 inches. These are analyzed for salinity and sodium hazard and for nitrates, phosphates and potassium. These latter tests are made at the Soil Testing Laboratory in the College of Agriculture here.

"**THE TESTS** are determining if the effluent can be successfully used to irrigate the golf courses," said Young, "and based on data to date it appears not to have any adverse effects. The quality of water has not been bad although perhaps a little high in salt load. Regular leaching has taken care of it however. Plant growth has been good and management of the courses has not indicated any adverse player response."

The division is gathering information, which can be used in suggestions or recommendations should other golf courses, parks or whatever use the effluent for irrigation purposes. Such recommendations will include fertilization since the effluent contains nutrients, especially phosphorus and nitrogen, and therefore may reduce the need for chemical applications. Water management, species of grasses that do best when effluent is used, leaching requirements, soil amendments, and disease problems and treatments, are other considerations that might be included in the recommendations.

EC class meets

The first class meeting of the Experimental College course in "The Theory and Practice of Revolution" will be held tomorrow in the East-West Room of the Student Union at 7:30 p.m.

by **SONDRA BERNSTEIN**

Ecology, medicine, metallurgy and archaeology are a few areas which could benefit from a method of chemical analysis developed in the physics department of UNR.

"Rapid analyses of contaminants" in the air "sensitive enough to provide pollution tabulations on an hourly basis" or detection of amounts of pollutants in water are only two uses of the technique, according to James K. Kliwer, associate professor in physics.

Chief of the Nevada Environmental Health Department, Ernest Gregory, said, "Any device such as this would have application with the state. It would have several applications for this agency."

Kliwer said detection of mercury contaminants in food would be an application in agriculture. In metallurgy, impurities in highly refined metals could be found and in mineralogy the method "would give an assay of trace elements as well as more abundant and more profitable" elements in a sample.

It is possible to measure "minute quantities of chemical elements," Kliwer said, using a Van de Graff particle accelerator, donated to the university last March, and an X-ray detector.

"**THE NONDESTRUCTIVE** nature of this method makes it applicable to the analyses of pigments in paints and dyes used in ancient artifacts" found by archaeologists, Kliwer explained. In medicine, human blood samples could be tested and trace elements analyzed. Kliwer expects other applications to be developed in this field.

UNR is setting up now, Kliwer said, to take measurements of the atmosphere every hour. A sample of air is collected on a small disk, or target, about the size of a quarter. The target can be exposed to air in any place, covered with a sealant, and shipped to the university for testing.

Gregory said the device would make surveillance programs easier. "We do not have the capability of detecting small quantities of mercury in our own labs," he said. "Federal people have been doing our analyses."

Environmental Health is just starting its own air sampling program and Gregory said better "tagging and identification" methods would be beneficial.

THE METHOD of chemical analysis now used is time consuming and costly, Gregory said. The ability to collect samples in the field and send them to a central testing point would save manpower, time and worry about sample preservation. According to Gregory, tests must now be done in the field requiring the movement of men and equipment to different sites.

The particle accelerator, designed to speed electrically charged particles to energies high enough to produce a nuclear reaction, is set up in the basement of Mackay Science Building. It speeds proton particles to bombard the "target" containing the sample to be tested.

This activity causes a reaction which "knocks out electrons from the atoms (on the target) resulting in vacancies," Kliwer explained. "Those vacancies are filled by other electrons," a process which emits X-rays.

"The atoms of each chemical element emit a particular set of X-rays," he said. The detector reads the X-rays and identifies the elements on the target.

The amount of each element present on a sample is obtained by comparison with standard samples of known quantities of different elements.

Kliwer has been working with the UNR accelerator since it was installed last fall. This particular use of the machine was brought to his attention when he heard of similar work being done by a group in Sweden. He said the same kind of work is being carried out in several places in the United States.

"There is one flaw in all of this," Kliwer said. The process does not work with hydrocarbons, but "there are other methods already known of detecting those elements." Hydrocarbons include oxygen, carbon, hydrogen and fluorine.

A course in 1040B

A course in how to fill out your income tax return will be taught at UNR starting today.

Ronald Wikander of the Internal Revenue Service will be the instructor.

The non-credit course, offered by General University Extension, will be given for three weeks on Tuesdays and Thursdays from 7 to 9 p.m. and Saturdays from 8 a.m. to noon. Classes will meet in Room 107 in the Thompson Education Building and students can register there at the opening session. The fee is \$25.

Career calendar

Feb. 23, Tues.—U. S. Forest Service—CE. Wells Fargo Bank—All Majors for Mgmt. Trn.

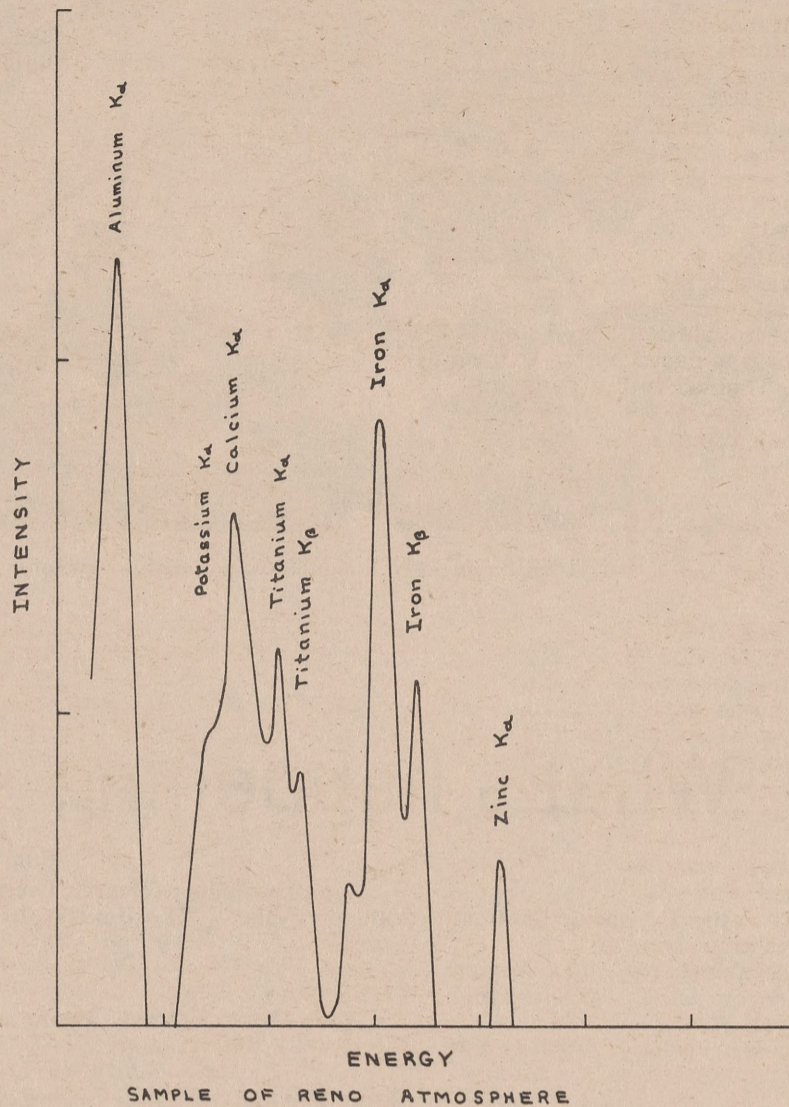
Feb. 25, Thurs.—Anaconda Company—Acct.; CE, EE, ME; Any Min. U. S. Bureau of Mines—Geol. Engr., Min. Engr. United States Intl. University—Any 4-Year Degree for Graduate School (incl. Law).

Feb. 26, Fri.—Arthur Andersen & Co.—cct.

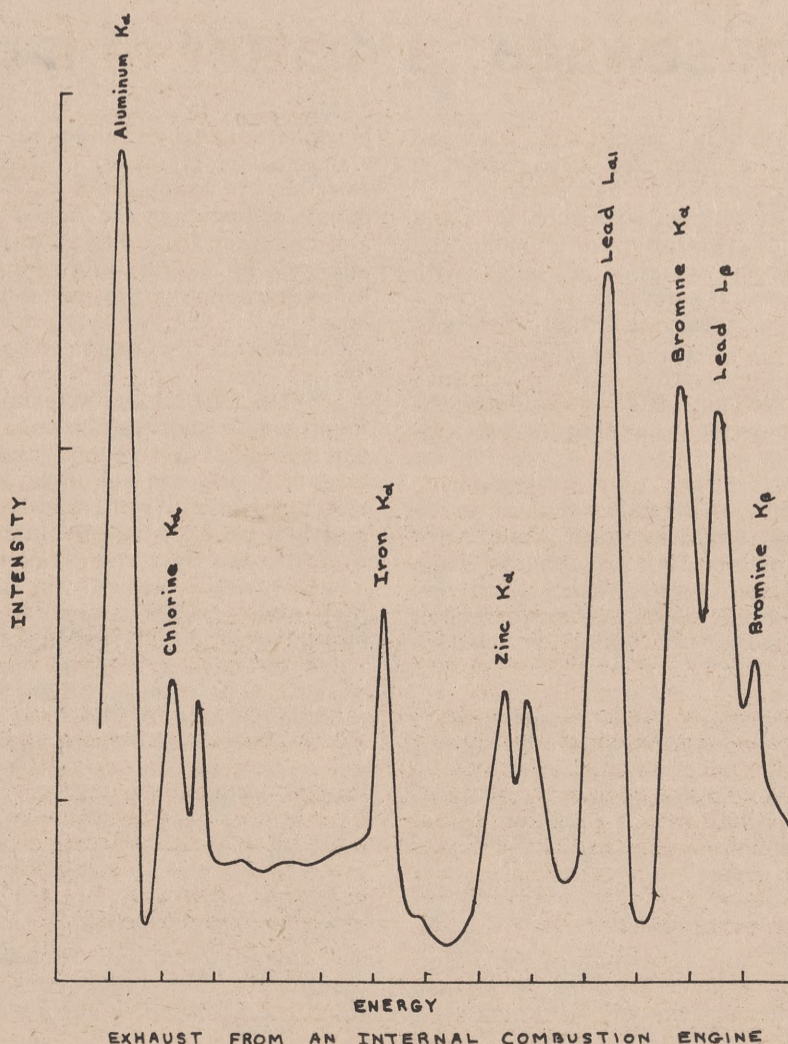
March 1, Mon.—Clark County School District—Any Educ. (except Soc. Stud., Bus. Educ., or Phys. Educ.).

Page 6, February 23, 1971, UNR Sagebrush

A new technique to help in ecology, medicine



A target was placed outside a window of Mackay Science Building for 24 hours to obtain this sample. The analysis was completed in about an hour. Kliwer said there was less material available on the sample which resulted in the longer analysis time. Here the smallest peaks correspond to about 10 billionths of a gram.



This chart shows the kinds of chemicals emitted by an automobile engine in five minutes. The target was held about one half foot from the tail pipe. The analysis was completed in 12½ minutes. The amount of aluminum recorded is about 10 millionths of a gram. The smallest peaks correspond to approximately a billionth of a gram.

Cagers lose

It was more of the same for UNR cage fans Thursday and Saturday nights as the Pack's varsity dropped a pair of games to conference foes St. Mary's (93-87) and University of the Pacific (96-77), and the frosh five, caught in the throes of a four-game losing streak, saw their record dip to 11-8 when they were belted by the St. Mary's frosh 107-74 and were stopped by the UOP yearlings 79-73.

Thursday evening, in their final home appearance of the season, the Wolves were hampered by their inability to connect on key baskets and by serious foul trouble in the important final minutes. The Pack was paced by the scoring of four men—Romie Thomas with a game-high 26 points, Nate Appleton—18, Dexter Wright—17, (all of whom fouled out in the closing two

minutes), and Paul Tholl—16. Appleton and Wright each collected 14 rebounds to lead the team in that category.

IN THE preliminary game, the Pack cubs were subdued by an extremely potent St. Mary's freshman squad. Nap Brandford led Nevada's scoring with a 28-point job, but it wasn't enough to offset the 38 points of St. Mary's Nick Carroll and the 31 of George Will, both of whom are destined to be WCAC stars of the future.

Saturday night's action, which saw the Pack fall to the league-leading UOP Tigers, was mainly an exhibition of the basketball-playing prowess of Pacific's 6-10 center, John Gianelli, who did nothing more than score 33 points and pull down 32 rebounds for game honors in both areas.

For the Nevadans, the brunt of the scoring load was carried by Paul Tholl, hitting 25 points from his favorite corner spot, and Romie Thomas, who connected for 24 markers although guarded heavily at times.

The Nevada frosh, despite losing, played their finest twenty minutes of basketball to date in the second half of their encounter with the Pacific frosh as they rallied from a 47-30 half-time deficit to draw within three points at 63-60. But then the Nevadans, who trailed 12-0 at the start of the game, simply ran out of time, and the young Tigers held on to record their eventual six point margin.

Brandford, Van Patterson and John Jackson all hit in double figures with 25, 19 and 15 respectively, while Brandford brought down 22 rebounds.

Air pollution control

by TED BEDROSIAN

CARSON CITY, NEV., Feb. 19—Strict air pollution control legislation—the product of 4 months of research was introduced in both the Nevada Senate and Assembly today.

Senate bill sponsor Melvin Close, D-Las Vegas, was highly optimistic about the bill. "I think this bill has an excellent chance to pass."

He said the bill was the most "comprehensive" air pollution bill to be introduced during the 1971 session. The legislation establishes an environmental protection board which would set state air standards and penalties.

"This is a pretty tough bill," said Close. "It incorporates those things which are necessary to comply with federal air pollution legislation."

IN THE assembly nearly 30 law makers sponsored the legislation.

Norman Hilbrecht, D-Las Vegas, said the measure "conforms in every respect as far as federal participation." He speculated the bill

had a good chance of giving Nevada "much more effective legislation" in air pollution control.

Members of the environmental protection board would be appointed by Gov. Mike O'Callaghan and would be an independent agency overseeing conservation efforts in all other agencies.

Hilbrecht said members of the environmental board would be subject to a stringent conflict of interest clause of the bill.

NO MEMBER of the board can hold an interest in any polluting industry." Board members would have review power over any construction in the state although air pollution control districts in Washoe and Clark Counties would be allowed to remain separate regulation regions.

Close said he didn't think industry in Nevada would strongly oppose the legislation because if Nevada doesn't pass air pollution laws the federal government will.

The League of Women voters sponsored the bill and worked with a number of legislators on it.

Med students increase

There are going to be 32 instead of 24 students in the first class to study medicine at the UNR, School of Medical Sciences officials have announced.

The size of the first class had been previously announced as 24.

The eight additional students can be accommodated in the class that starts next September because of plans for more flexible use of resources, and because it is expected that by accepting more students the school will become eligible for certain federal grants, said medical school dean, Dr. George T. Smith.

HE LISTED the following among expanded resources which make possible the enlargement of the first class: the large number of outstanding applicants, increased curriculum flexibility, with more emphasis on problem-solving and self-learning; increased flexibility in the use of clinical and community health care facilities and preceptorships and development of the Educational Support Division with its assistance to faculty accepting this increased teaching load.

Smith also explained that leading criteria for federal grants to medical schools include innovative teaching methods, shortening of the length of time required to prepare a physician, and increasing the size of classes, all of which are being done at the new Nevada school.

He said that of some 1,000 applications for the first class, 130 were from Nevadans of whom the admissions committee felt 44 were outstanding.

"Nevada has never had more than 12 students admitted to medical schools in any previous year, and the number of students applying certainly indicates that a need for educational opportunities for young people exists in Nevada," Smith said.

"We did not expect this number of ap-

plicants and as Dr. William Ruhe, chairman of the American Medical Association Council on Medical Education, stated: "The experience in Nevada was similar to that in other areas of the country where new medical schools are started. When the opportunity is there many more of the better students decide on medicine as a career."

All but one of the 32 students admitted to the first class are Nevadans. Nine are from Reno, 10 are from Las Vegas and 12 are from other parts of the state.

The lone out-of-state student is Miss Karen D. Crippin, of Burley, Idaho, who was admitted "because the committee felt one position in the class should be given to a person from a state that has no medical school and with which Nevada is cooperating through Regional Medical Programs, Western Interstate Commission for Higher Education, and other efforts," said Dr. Dean C. Fletcher, director of admissions.

PLANS ARE to admit 36 more students in September 1972. Each year thereafter, 48 new students are to be admitted.

Upon completion of the two-year medical curriculum, the students will transfer to universities in other states where the doctor of medicine degree is granted. By selecting students for the two-year curriculum who have completed work, in the new UNR Health Sciences Program or elsewhere, that otherwise would have to be accomplished in medical school, and by innovative plans for the new school, the total length of time required to train a physician will be reduced.

And hundreds of students in the Health Sciences Program are preparing to become medical technologists, nurses, physical therapists, and other types of health care professionals who are needed to work with physicians.

Chico drops boxers

The UNR boxing team traveled to Chico last Saturday and came home on the short end of a 6-4 score.

The Pack got wins from Don Adams, freshman Dick Prunty and conference champion Bill Marioni.

Adams used a series of left hooks to win his bout with Chico's Steve Carr.

Prunty knocked down his Chico opponent, Bill Wells, in the first round and remained in control throughout the bout to gain the decision.

Marioni used left-right combinations to box his way over the Wildcat's Jim McIver.

Two bouts were ruled a draw.

Bill Presse (125) fought a good fight but the judges ruled it a draw.

The other draw came in the 147-pound class as the Pack's John Grover, in this reporter's opinion, clearly outpunched Chico's John Acriga, but the bout was ruled even.

In another 132-pound bout, Chico's Glen Whitlock took a split decision over Nevada Dave Blanton even though the bout was even all the way.

The Wolf Pack pugilists will be on friendlier grounds next Saturday night when they host the University of California, Berkeley.

Track team outstanding

The Wolf Pack track and field team gave a small warning to WCAC opponents by coming up with some outstanding early season performances at the Snow Flake Invitational at Idaho State's minidome.

Peter Duffy won the two-mile run for the Pack even though he ran one lap (200 yards) less than the rest of the competitors.

The Pack also had three second places, one third, one fourth, and two sevenths.

Gary Hines went over the bar at 6-8 in the high jump to capture a second.

Steve Stanislaus ran a fine 49.9 440-yard dash to tie for second place and Bert Serrano sailed over 14-6 in the pole vault for his second place.

The UNR 880-yard relay team came in third place with a time of 129.3 while the Pack's mile relay team finished fourth with a 3:24.7 clocking.

Jeff Harrowby tossed the shot 50-9 for a seventh and Curtis Terry ran 1,000 yards in 2:20 for the other seventh place.

UNR splits

UNR's baseball team opened its season in Davis, Calif. Saturday by splitting a double header with the UCD Aggies. The team took the first game 5-4 on the strength of freshman Tim Truex's six innings of two-hit shutout relief and dropped the second tilt 7-6 in eleven innings despite a strong seven-inning pitching performance by Gary Powers.

Tom Duncan, Bill Penaluna, Mike Reid and Dave Feinberg all made valuable contributions to Nevada's hitting attack.

The Pack nine encountered its most serious difficulty with the hard California infield which, coupled with the first game jitters of the players, resulted in numerous fielding miscues.

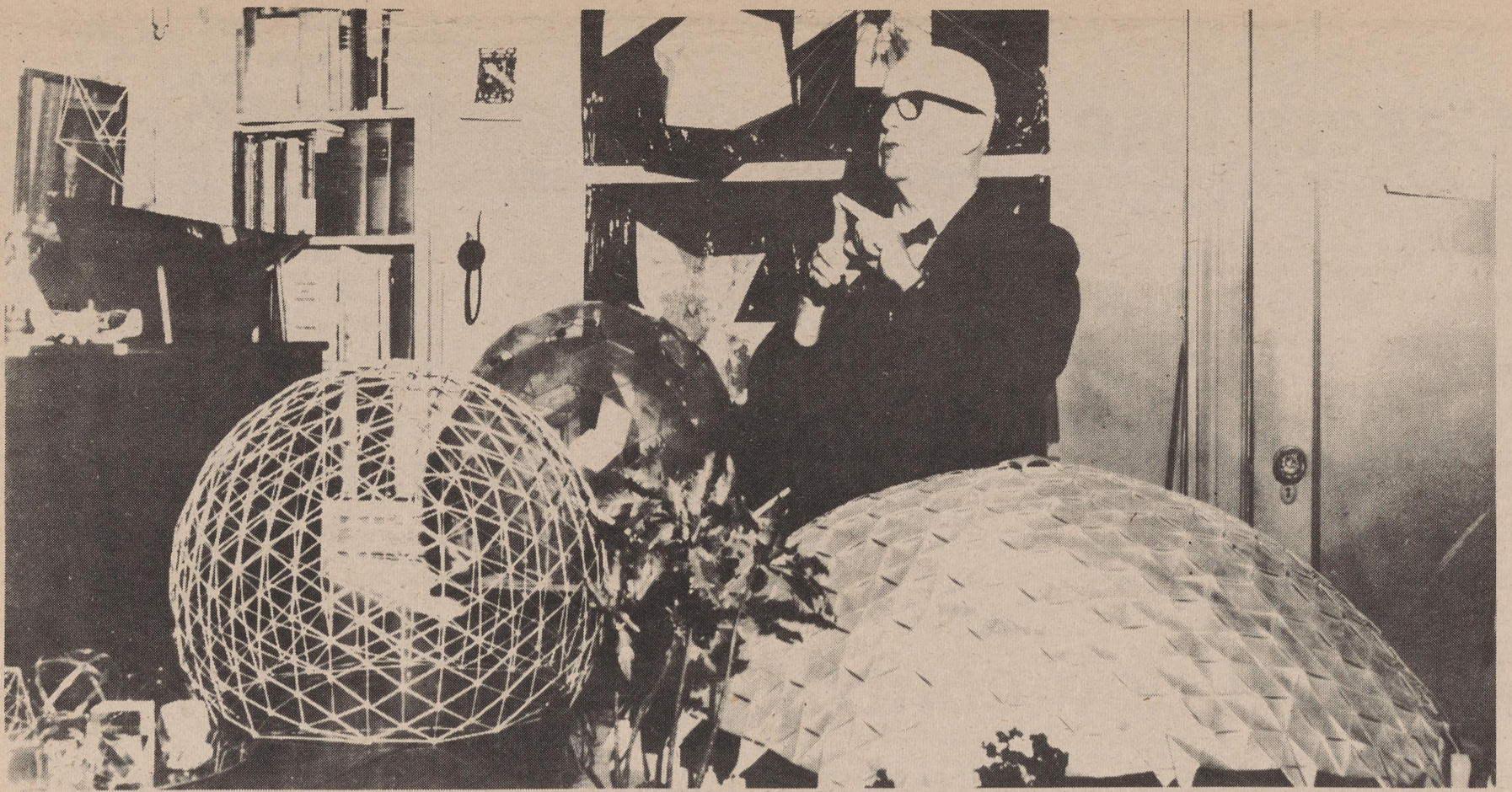
Other Wolf Pack headaches were caused by the Aggies' left-fielder, Tom Viney, who, in addition to playing well defensively, belted two homers, a triple and a double in the second contest.

Coach Jackie Jensen said, "I was very pleased with the enthusiasm of the team . . . and if we could straighten out our defense . . . we could surprise a few teams in the WCAC this year."

Hoopsters to Santa Clara

UNR's varsity basketball team will be on the road again Thursday when it journeys to Santa Clara for a WCAC game against the Broncos of the University of Santa Clara. In this encounter the Wolf Pack will be shooting for its fourth overall victory and its second conference win.

The last meeting between these two teams resulted in a 93-76 triumph for the Broncos, when Santa Clara landed six men in double figures.



Buckminster Fuller

Buckminster Fuller here tomorrow

R. Buckminster Fuller, one of the most honored men of this age, will speak tomorrow at 8 p.m. in the gym on "The Prospect for Humanity: Man and Science in the Computer Age." There is no charge.

Fuller is most famous for his architecture and inventions, which center on the geodesic dome and dymaxion houses and vehicles. His more recent projects include the "World Map" and "World Game" through which he seeks to make tangible contributions to the major economic and ecological problems of mankind.

"I can prove to young people that it's possible to take all humanity to a

higher standard of living than anybody ever thought of; that the war which they deplore is the same as other wars, which have been based on the assumption that there's not enough to go around so that somebody is going to have to die," he said recently.

Such ideas are amplified in his many books which include *Utopia or Oblivion* and *Operating Manual for Spaceship Earth*. He was recently selected by NBC-TV to inaugurate a new series called "Experiment in Television."

In addition to the public lecture, Fuller will meet informally with faculty and honors students between 4 and 5:30 p.m. in the Travis Lounge. He is sponsored by Honors Board.

Nye constitution heads for defeat

by LINDA NAGY

The residents of Nye Hall have all but defeated a constitution which took five months to write.

Voting for the constitution was last Thursday, but when enough voters failed to cast ballots and it was not passed, the deadline was extended to Friday.

Ed Beverly, staff resident, said 115 people are still needed to vote and of those, 96 must vote "yes." On the other hand, only 14 more "no" votes are needed for the constitution to lose.

The constitution must have a positive vote from 75 per cent of Nye's residents. At the present time it only has 71 per cent.

"I don't think it has a chance," Beverly said Sunday. He said even if it did pass, there are still

a "significant number" who are against it.

NYE RESIDENTS have two major grievances against the document:

1. They think the salaries are too high for the officers, and
2. There is a clause that excludes freshmen from serving as president.

About 90 per cent of Nye residents are freshmen.

Jack Barratt, a Nye assistant, said this could have been a deciding factor in the constitution's loss.

Beverly said a new committee will have to be formed to write another constitution, but it shouldn't take too long because the committee will have a good base to work from.

If a lack of interest is shown in forming a new committee to rewrite the constitution, Beverly said, "If it comes to it, I'll go to each floor and try to get people interested."

He said he was going to "get more involved"

with the next constitutional committee. "It appeared," he said, "that not enough people voiced their opinion the last time to the committee."

A committee was formed in September to write a constitution for Nye when it was discovered former Nye constitution had never been ratified.

Rally committee meets

The Rally Committee will hold an organizational meeting Thursday in the East-West room in the Student Union from 3-5 p.m.

The selection of next year's yell leaders will be discussed. Activities will also be planned for next year. The new constitution will be explained.

Anyone interested in becoming a yell leader must attend the meeting. All yell leaders must be members of Rally Committee.

For further information, contact Frank Poli, chairman, 323-7063, or the faculty adviser, Ronald Pardini, 784-6031.

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