DAILYNEXUS

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University of California at Santa Barbara

Friday, February 25, 1977

Research—the Bucks Stop Here

By Gordon Van Zak

Researchers at UCSB's Quantum Institute are working with a \$110,000 federal grant to reduce or eliminate atmospheric pollutants formed during the burning of sulfur-bearing fuels such as oil and coal. Mathematics professor John Ernest has recently completed research for the Ford Foundation on the topic, "Mathematics and Sex." That is, why women drop out of math before getting

The National Endowment for the Arts sponsored the work of two Art Department faculty members researching "William Blake and the Art of his Time." Their grant was for some \$12,000.

UCSB is doing research in nearly every imaginable field, from "the Ancient Ice Ages" to the "Training of Personnel in Speech Pathology and Audiology."

UCSB is fairly unique among universities that conduct research because of our system of Organized Research Units, ten of them that work in areas "beyond the scope of any one department."

Some of these are the Computer Systems Laboratory, the Marine Science Institute, the Intercampus Institute for

Grant Money Supports Work university like UCSB creates the knowledge everybody else is working with." From 'Math and Sex' to Oil

Research at Particle Accelerators and the Center for Chicano Studies.

Last year UCSB received various grants totaling \$6,869,323. The money comes from federal, state, county, industrial and private agencies.

State grants are given annually, and any unused money will be called back at the end of the year to be reallocated. Other grants, Extramural Awards, may be apportioned for contract periods of perhaps three or four years.

University research has often come under attack by individuals who believe a professor should put more time and effort into teaching and less into researching.

Research Administrative Officer Margaret Bookout disagrees with this belief. She says research benefits the student. This happens in three ways.

First, funded research supports the student financially through grants-in-aid. Second, research creates another area where the student can interact with the professor directly by assisting in the professor's work. Third, research provides training and background for the student, which will be essential in writing doctoral dissertations and in planning a career.

Dr. Robert Kelley of the History Dept. believes strongly in the need for research and that research benefits the professor.

"Every society," he says, "needs places with the kind of person who wants to grow knowledge. This needs a certain setting. University research lets that person be part of the international conversation between scholars in his field, and it lets him contribute to that conversation."

He continues: "Research lets the professor be around bright and able students with whom he can communicate and discuss his findings. An elite

Chancellor Vernon Cheadle says that it's not a matter of a professor publishing or perishing, as the saying goes. "This is a research-oriented university," he says. In other words, a professor must expect to do research if he is to be on the UCSB faculty. "If a professor doesn't want to do research, he shouldn't come here to begin with," he says.

He feels that research is good for the students. "It keeps people alive and alert, sensitive to what's going on."

Furthermore, as Dr. Kelley puts it, "even in law, medicine, and government, where huge professions are involved, the actions of these professionals must be challenged. Everything they do is being critiqued and reacted to by the best people in their fields in the world. The critiquing is going on all over our campus, or it should be."

"If not," he concludes, "the student should find out why not."

Students Research Speech

By Lynne Kirste

It may still take faith to move mountains, but now to move a wheelchair a mere word will suffice.

The speech recognition mechanism is a device which would enable an individual to control his or her wheelchair or other aspects of the environment by spoken commands.

It would be used by higher level quadraplegics; people with no use of their legs and minimal use of their arms.

Graduate student Jim Clark has been working to develop the speech recognition system for five years, aided by Brian McGann, another graduate student, and Dr. Robert Roemer, a professor of Mechanical Engineering.

"I felt there was a need for voice," Clark says. While there are many devices designed to help the physically-handicapped control their environments, they often must be activated in ways that people find unnatural. Pressing buttons with the tongue or bumping them with the chin may make a handicapped person feel self-conscious. The voice system alleviates this problem.

The system works by breaking the spoken command into a frequency pattern. The device then attempts to match the pattern to a set of reference patterns. If a close enough match is found, the system activates the command associated with that reference pattern. The wheelchair performs eight actions on command. These include going fast and slow, forward and backward, left and right, and stopping.

Control by voice recognition is not restricted to wheelchairs. Clark, Roemerand McGann have also developed what Clark calls "an environmental control system."

In a few weeks an environmental control device will be installed in the home of an Atascadero man. The system will allow him to control such electronic mechanisms as the lights, television, telephone, air conditioning, a CB radio, a calculator and a tape recorder.

The environmental control system uses a speech recognition device with a vocabularly of 20 to 30 words. A variety of commands may be made from these words. "TV on" and "TV volume up" use some of the same words as "radio on" and "radio volume up." Thus, a person can form more commands than there are words in the device's vocabulary.

Another environmental control system used in the Long Beach Veterans' Hospital for over a year. The device at the Long Beach hospital had to be specially tuned to respond only to certain voice patterns. Now, however, the researchers have developed a way for the system to automatically train itself to obey only the commands of one person's voice.

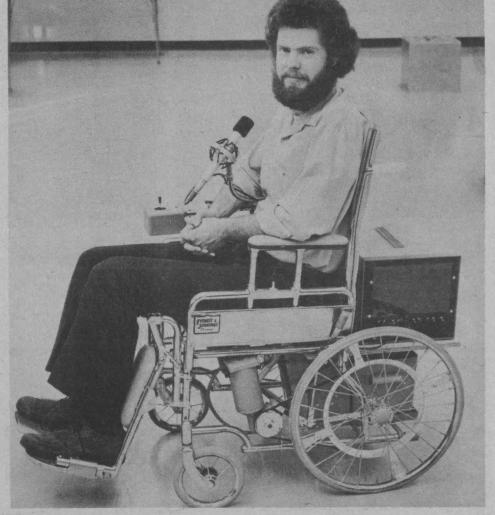
Another project which would use voice control is an electronic arm. The arm would be bolted to a wheelchair. It could extend, move left or right, and the five

fingers on the hand would be able to move. The arm would enable a quadraplegic to open and close doors and windows, and perform the manipulative tasks of the environmental control device, plus many others.

The research into the development of the voice recognition system is funded by

Seals, the Administration, and California State Workmen's Compensation. The Veteran's Administration has commissioned the construction of six systems for use in hospitals, while Workmen's Compensation has commissioned a

(Please turn to p.2, col.5)



JIM CLARK, PhD student in electrical engineering demonstrates voice-controlled wheelchair he helped to develop. It is believed to be the first of its kind. Photo by Wilfred Swalling

TODAY IS the seventh anniversary of the burning of the Bank of America

A.S. PRINT SHOP wins approval from Leg Council to remain open . .page 10

ISLA VISTA bus stops will soon be getting a major faceliftpage 10

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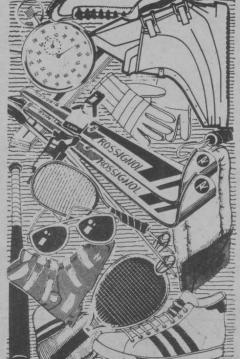
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Wheelchair

(Continued from p.1)

system for installation in a person's home. Thus Clark, Roemer and McGann are dealing with actual constructions, a situation which is unusual at the University.

There are conflicts in the area of marketing. Clark feels the voice recognition system would fill a definite need. While several commercial organizations have built these kinds of systems, their products are not geared for private use.

The systems employed commercially in jet planes and airline terminals are much too large and expensive for use by the handicapped.

The UCSB researchers have developed a smaller system by using micro-processors rather than mini-computers. They don't need the capacity of a computer for their simpler goal of 20 or 30

"Our system is lightweight," Roemer notes. "It can sit on the back of a wheelchair."

Clark believes the environmental control system could be produced for about \$7,000. Custom installment in the house would be added to that

While the mechanism is suited to production, marketing is a problem. The University has partial royalty rights, as does the Veterans' Administration. Easter Seals has the patent right. And it is difficult to find a company which will produce a product with a small market. Clark estimates a market of perhaps 200 systems per year.

Sunspot Drought

(ZNS) - The drought in California and the serious lack of snow in the Rocky Mountains and western regions of the U.S. are apparently not an accident.

The Christian Science Monitor reports that the lack of moisture could have been fully expected because of the frequency of sunspot activity on the sun.

The Monitor reports that a number of atmospheric scientists have discovered a strong correlation between the 22-year long sunspot cycles and droughts in the United States.

The newspaper notes we have suffered severe droughts every 20 to 25 years for the past several centuries, the recent ones occuring in 1892, 1912, 1934, 1953, and now apparently, 1977.

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UCSB Prof. Helps Revamp Senate Structure

One of President Carter's well-publicized campaign promises was a pledge to reorganize the federal government. Although much less publicized, but almost equally important, UCSB Professor Roger Davidson's recent work is now leading to a reorganization of the Senate committee structure.

Last summer, Davidson, chairman of the Political Science Department, served as a special research consultant to the "Stevenson" committee, named after its chairman, Senator Adlai Stevenson. The committee's job was to make recommendations for reorganizing the committee structure in the U.S. Senate.

Its recommendations were compiled into a report which received some inevitable modifications before it was put

Number of Committees Reduced as a Result

responsibility.

Specifically, the Senate had 14 different committees working on aspects of Energy policy, and Davidson believes this is one reason the U.S. has no cohesive national energy policy. As other examples of this which have occured since 1946, Davidson lists Environmental policy, with 12 different committees, and international economic relations, which has 6 committees working on one or more aspect of it.

With the passage of the reorganization bill, a few other bureaucratic problems will be greatly reduced. One of the most frustrating has been the sometimes

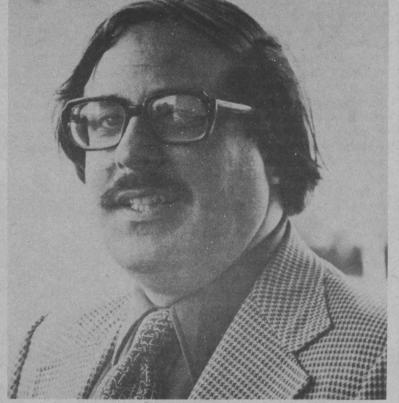
overlapping of jurisdictional Senator participates on 18 committees, which makes it difficult to schedule committee meetings, and also difficult for the Senators to manage their own schedules. With less committee duty, they will be able to concentrate more on their other

In his role as research consultant, Davidson directed all research done by the committee. Basically, they tried to compile records of overlaps and also basic information about the role of each committee. They interviewed people in committees and agencies, developed statistical measures of what their groups were doing and then analyzed their findings. In other words, says Davidson, "We had to know, superficially, everything government was doing."

Since the Bill was passed on February 1, the number of standing, or permanent committees, has been cut from 31 to 19, and the number of sub-committees was slashed from 174 to 100. This is a considerable accomplishment because many Senators consider committees somewhat sacred.

Davidson is now starting work on another research project, dealing with public opinion of Congress, and why people have these opinions.

Davidson thinks that people have one attitude toward congress as a whole and another toward the individual congressmen from their area. He suggests several factors for this. First, people have a cynical, alienated attitude toward government, brought about Vietnam and mainly by Watergate. In addition people know very little, generally, about the role and function of Congress, tend to evaluate it, as



DR. ROGER DAVIDSON, a key figure on Capitol Hill who helped President Carter's dream come true. Photo by Matt Pfeffer

Davidson says, "in the context of whether things in the country as a whole are going good or bad."

Regarding the tendency of evaluate their congressmen differently, and usually higher than congress as a whole, Davidson says that "people in a district have more tangible things to evaluate a congressman on than public appearances, newsletters and favors to the district and individuals." He also points out the irony that while people generally distrust government as a whole, in the last election 97 percent of the incumbents in the House won re-election.

Two relatively new innovations have helped Davidson in this

project. One is the use of survey research, which uses questionnaires run through computers to statistically analyze political tendencies. Another is the advent of congressional public opinion polls. Previously, the only poll that appeared with any regularity was the Presidential popularity poll, which comes out about once every other week. Davidson hopes that, because of these new polls, he will be able to compare peoples' attitudes toward Congress, and how and why they

Regarding the reorganization of the Senate committee structure, Davidson says, "the (Please turn to p. 10, col. 3)

"Since the Davidson Bill passed on Feb. 1, the number of standing, or permanent committees, has been cut from 31 to 19, and the number of sub-committees was slashed from 174 to 100."

into the form of a bill. On between committees and their February 1, this bill passed the Senate by a vote of 89-1, and as a result, the Senate committee structure is in the midst of reorganization.

Davidson, who in 1973 worked on a similar House of Representatives reorganization committee, stressed the need and importance of reorganizing the Senate committees, describing them before hand as a "mess." The last codification of committee jurisdiction was in 1846, and because they were so vague, most committee jurisdictions have evolved by

important reason reorganization was so important is that since 1946, several major policy issues have come up that were then unforeseen and there were not any committees set up to deal with them. Consequently, too many committees were trying to exert their influence on different aspects of different policies, leading to a giant

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sub-committees for jurisdictional territory they consider their own.

Another problem that will be partially resolved will be that of conflicts between federal agencies, and Senate committees. The system basically works so that the committees pass the laws which allow the federal agencies to operate their programs. With fewer committees, there will be less chance of agencies evading laws made by the committees.

Individual Senators will also benefit from the bill. Davidson's research found that the average



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Speech Department Studies Autism Its Effects, Possible Cures

The child rocks slowly back and forth. His mother, beaten and bruised from her attempts to love him, stands and watches. The child is one of every 2,500 children born with the childhood disorder known as autism. Dr. Robert Koegel, UCSB researcher, has been studying autistic

"No one knows for sure what causes autism," Koegel says. "The children seem to be born with it, or born with what causes it to develop." If left untreated, autistic children may never learn to talk normally, or to interact with other people. They might

children here for the past five even kill themselves by their violent self-destructive behavior. Koegel is working at helping children to avoid institutions and to eventually lead normal lives.

Koegel's research has been mainly in the area of behavior modification. "First, we're working with the child's parent.

We want to teach the parents how to teach the children. It's a very systematic program." The parents work with a speech therapist. They learn the proper way to get their child to talk or to play with toys or to identify different colors. Graduate and undergraduate UCSB students also help the parents in their

Koegel believes that parent intervention may be rewarding for both the parent and the child.

"A parent could get a great sense of satisfaction from helping his own child," he says. "What we're testing is how well parent training actually works on the child, and then, at the same time, what effect it has on the parents."

Koegel is also investigating how mute autistic children can learn to speak. "Basically, we go about it in this way. The children are rewarded for making as many different sounds as they can. Then they're prompted and rewarded for making sounds in combinations - words, sentences and so forth," Koegel says. The reward is usually candy or something else to eat or drink.

Koegel then compares these children to children he and Dr. Jan Costello are teaching with sign language. He believes it might be easier for the children to learn to speak from hand signals rather than from hearing sounds. "Right now, we know we can teach them to talk to some extent," he says," but we want to find out why a child may be able to learn, say, a 2,000 word vocabulary in a fairly short time, and then not be able to increase it, even after 10 more years of therapy."

Most of these experiments are what's known as "within subject" studies. This means that a child might come into the Speech and Hearing lab on campus from 1 to 3 times a week for about an hour each time over a period of months or years and the researchers collect a great deal of information on that one child.

From these experiments, (Please turn to p.5, col.1)

General Plan For County Hits Delays

The Santa Barbara County General Plan, which was supposed to have been submitted to public hearings in January, has been delayed for at least a year. According to County planners, the Planning Department is going to present a paper to the Board of Supervisors in March explaining the delay.

Reasons given by the planning department for the delay mostly center around integrating new material into the plan submitted by Livingston and Associates, the private consultants hired by the County, last year. It was also noted that local advisory boards have changed in membership, and have made new recommendations.

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Meanwhile, the State legislature approved a Coastal Protection Act, whose provisions must now be adopted into the County plan.

After reviewing the revised plan with the local commissions, and putting their recommendations into the plan, environmental impact and public hearings will be held. However, County planners are as yet unsure when that will happen, or how long the process will take to complete.

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Biochemist Finds Clue to Reproduction Through Work With Abalone, Peroxide

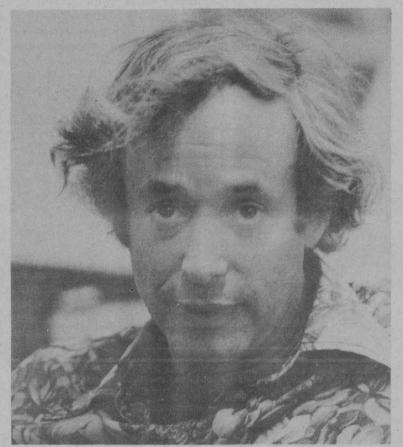
By Sean Murphy

The abalone tentatively investigates the piece of kelp, its miriad of atennae waving gently from the edges of its massive shell. As the fleshy body slowly engulfs its prize, Dan Morse leans back from the edge of the circular concrete tank.

"These were all just caught by Marine Institute divers. After we use them for breeding, we release them again." Breeding abalones is an important part of Morse's research at the marine institute. A discovery made by Morse's research team has removed one of the principle obstacles to the commercial mariculture of abalones and other marine

In a study funded by the UCSB Marine Institute and the Sea Grant program, and followed closely by the California Fish and Game Department, Morse and fellow researchers have discovered a substance which is non-toxic and non-polluting and which induces immediate and simultaneous spawning in abalone. This substance is, surprisingly enough, Hydrogen

"One of the major obstacles to commercial abalone hatcheries has been the inability to control their reproductive behavior," says



PROFESSOR DANIEL MORSE has found that the answer to abolone fertility would turn your hair white.

inexpensive and safe, decomposing rapidly after use to water and oxygen. Its use could greatly increase the efficiency

Morse. "Hydrogen Peroxide is and commercial feasability of mariculture efforts."

Morse's methods have been used with considerable success in California abalone hatcheries, and

in oyster and mussel hatcheries in other parts of the world.

Hydrogen peroxide activates an enzyme in reproductive tissues which synthesizes the hormone prostaglandin, which controls reproductive processes in invertebrates and higher animals. Having learned to control production of this hormone in order to regulate breeding behavior in shellfish, Morse is now involved in research to determine whether his results are applicable to mammals and humans.

Morse's work may prove to have important applications in the fields of human and veterinary medicine and animal husbandry. Prostaglandin controls ovulation, fertilization, pregnancy, and birth in humans and other animals. This hormone also controls such bodily functions as cardiovascular and respiratory functions, fear, pain, inflammation, and clotting of the blood. Control of prostagladin release through the use of Hydrogen Peroxide could lead to greater control of these processes in animals and people. Applications could involve reducing or increasing fertility, hastening or delaying the onset of labor, regulation or acceleration of embryonic development and inducing therapeutic abortions, among others.

wooden, and glass buckets and Vitalis.

enclosures filled with abalones of various sizes all on top of a huge wooden table and surrounded by different sizes of pipes and tubing carrying water and air to the cultured shellfish. This is where Morse's research team, consisting of research associates Helen Duncan, Neal Hooker, Morse's wife Aileen, and graduate student Lloyd Jensen do much of their work. Further research is carried on in another laboratory in the Biology building.

Manipulation of prostaglandin through the use of Hydrogen Peroxide may, according to Morse, "be a handle in figuring out the poorly understood molecular events in fertilization and development, as well as the sequence of events controlling gene expression and differentiation."

In conjunction with the California Fish and Game Department, Morse's group is trying to develop a program which would increase the practicality of "reseeding" marine abalone populations with hatchery spawned individuals. According to Morse, "80 percent of the commercial California abalone catch comes from the Santa Barbara area, but the catch has been reduced drastically in recent years." Abalones grow very slowly and mortality is high in the free-swimming planktonic larval stage, so a reseeding program with hatchery-raised individuals could be instrumental in the rebuilding of local abalone populations.

Hydrogen Peroxide - from Morse's laboratory at the hair bleaching agent to abalone Marine Science Institute is a aphrodisiac. One wonders what cluttered room filled with plastic, UC researchers could do with

Autism Effects and Possible Cures

(Continued from p.4)

Koegel helped to develop an experimental classroom on the UCSB west campus in 1971. Of the 16 severely psychotic children who participated in this classroom, 10 were discharged within 18 months and went on to regular or special education classes in public schools. This

classroom model was copied in schools throughout California, and internationally.

The work Koegel does with the autistic children and their parents is given free of charge. Koegel's own research is funded by the National Institute of Mental Health and the US Office of Education. "Fifteen years ago, only one percent of autistic children would make it all the way to become normal," Koegel says. "Now, because of our own and others' research, we can help nearly 50 percent become completely normal." Perhaps it is still possible to get something good for free.

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VIEWPOINT

DAILY NEXUS

FRIDAY, FEBRUARY 25, 1977

PAGE 6

-LETTERS

Does All that Salt Water Make You Thirsty?

Editor, Daily Nexus:

Certainly for the last five years, and perhaps for the last ten, there has existed a mature water-desalinization technology which, if it had been funded, built and put into operation in the state of California — as it certainly could have in the last few years — would have prevented the current drought disaster which California (as well as the nation, which depends on California in great part to provide its produce) is now facing. Why weren't such plants built? Why was funding for such a project not forthcoming?

We need water, and we need it now. Without it California faces catastrophe. Further, the nation as a whole faces a crisis in the form of probable crop-failure in California due to lack of water.

Yet we've got all the water we need, right out there, lapping at the coastline at our very doorstep! Why has it not been made available to us?

I just sent off four telegrams, one each to Governor Brown, State Senator Omer Rains, U.S. Senator Cranston and U.S. Congressman Robert Lagomarsino, with the identical message in all cases:

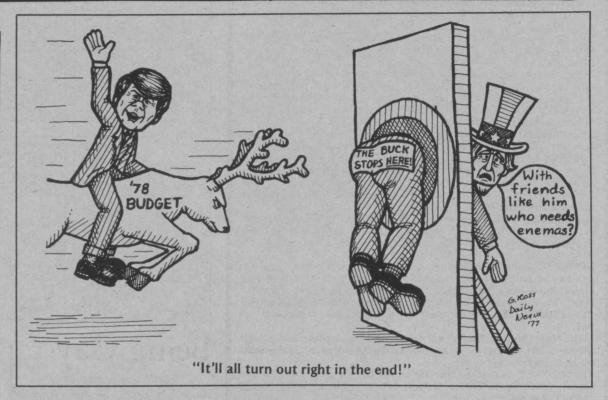
We desperately need numerous water-desalinization facilities. I, a native and life-long resident of California, beg you to initiate a program of development, construction and implementation of such plants now. California is on the verge of disaster from lack of water — yet, save for the salt, we have all the water we need off our coast. Please enable California to make use of it — whatever it costs us in taxes, it is eminently worth it to all of us as individuals, to California and to the nation.

We must have water. Yet we cannot go on draining half the West of its water and tearing up the fragile, sensitive aquifier and underground-water systems of California and other Western states to get it. Western water-resources are already dangerously low, and the hydrological components of Western U.S./Canada ecological systems have already been egregiously traumatized by just that sort of careless and wasteful exploitation of our

But we don't need to do these things to get water; we've got all the water we need, right out there in the Pacific, and the means to get it. Further, those means in large part do not now necessarily mean use of atomic energy and the possibility of nuclear accident and contamination of California, though at first some use of atomic energy would be needed to power water-desalinization plants. Already a mature methane-technology (processing methane from city sewage—exists, and solar-power technology is rapidly becoming feasible and very useful for just this sort of technological implementation. Why, then, do we not have water desalinization plants?

Can you spare \$2.75 for a telegram like mine — or 13 cents for a stamp for a letter — and the very small amount of time to tell your Congressmen, Senators, State Senators and Assemblymen what I have told mine? If you, too, are worried about the situation California and, indirectly, the nation is now facing because of the lack of water in California, I urge you to write those politicians directly and indirectly concerned with this matter; tell them basically what I have outlined here; and demand to know why California hasn't seen fit to install water-desalinization plants and put them into use long before this. Your welfare as well as anyone else's will be affected by this, very strongly. It is in your best interest to do so.

(Please turn to p. 7, col.3)



Gays Deserve the Dignity and Respect Due All Human Beings

Editor, Daily Nexus:

As a UCSB staff member (lobby checker in Ortega Dining Commons) I'd like to respond to the rumors circulating thru the dorms about myself. Yes, I am gay. If I were trying to hide it, I wouldn't have participated in a discussion homosexuality in San Miguel dorm a few weeks back, much less write this. Let me also say that I'm not the type of person who likes to draw attention to myself. So why am I putting myself up front on an issue as senstitive as homosexuality? The reason is, simply, that it is an issue which must be brought to the attention of the public now.

We gays have been oppressed far too long. The time has come for us to leave our closets with the expectation of receiving what is ours by right — the dignity, respect and equal treatment which should be given to all human beings.

I assume that most of you don't care who I go to bed with. That is how it should be. But to those of you who are upset over homosexuality let me offer this advice. Without meaning to be sarcastic, I say you had better get used to it. Perhaps you don't realize it, but you come into contact with us every day i.e. your friends, faculty and staff members. I encourage you to

The Nexus welcomes letters from its readers. If you wish to comment on any matter of interest, write a letter-to-the-editor and bring it to the editorial offices of Nexus beneath Storke Tower. Please type your letters using a 55-space line, and use non-erasable paper. All letters are subject to condensation.

break with the conditioning you were brought up under, that of straight is good and gay is bad. You are mature enough to make judgements for yourself now. Homosexuality does not threaten anyone. It is your bigotry that is the real sickness in society.

A personal note to my gay brothers and sisters, particularly those of you in the dorms. I understand the hell many of you are going thru. You know that you are gay, or you think you might be gay, but you have that

fear which prevents you from searching out to find the answers you need and want to know.

My advice is to come out a little bit. You don't have to start by telling your parents and friends. Often it helps just to have another gay person to talk to. It's awfully difficult to walk into the Gay People's Union office for the first time, but you don't have to do that if it's too uncomfortable. You can call the campus Information Center and get the

(Please turn to p. 7, col.3)

Banking on America?

Editor, Daily Nexus:

Sean Murphy's article of Feb. 18th gives what I feel is a slight misrepresentation of the facts by saying that all defendants in the 1970 trial for burning the I.V. Bank of America were acquitted. It implies that all of us who went on trial came away un-punished. Not so. It is accurate to say that none of us was convicted of the felony charge of arson (the jury was hung in several cases).

Nevertheless, four of us were convicted of misdemeanors like rioting and all were given maximum sentence of one year in the county jail. I chose to do the time; three others didn't. Richard Fisk, Bill Hoiland, and Chris Sherman are still at large on this seventh anniversary of the bank burning.

John Wilkens

Bob Langfelder

DAILY



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Opinions expressed are the individual writer's and do not necessarily represent those of the Daily Nexus, UCSB Associated Students, or the UC Regents. Cartoons represent the opinion of the individuals whose names appear thereon. Editorials represent a consensus viewpoint of the Daily Nexus Editorial Board. All items submitted for publication become the property of the Daily Nexus. We welcome contributions from alternative viewpoints.

KCSB: "There Where the Bank Burned" - a ten year retrospective look at Isla Vista will be aired at 12:15 p.m. and at 8 p.m. (Monday) on 91.5 FM. GAUCHO CHRISTIAN FELLOWSHIP: Intensive study of six Biblical texts will take place from 7 p.m. Friday to 9 p.m. Saturday in Phelps Hall

HILLEL: Shabbat services and discussion - "The Kibbutz, an alternative Society" led by Rose and Harry Pierce will be held at 6:30 p.m. at the

KCSB: Tonight at 11 p.m., the Undercurrents re-create an authentic simulation of the Burning of the Bank. You'll be saying, "Why, it seems like only yesterday!" when you hear Dylan, Barry McGuire, Buffalo Springfield, and others featured in our 7-year anniversary special entitled 'Golden Protest" 91.5 FM.

I.V. COMMUNITY VIDEO: Free movie, "Don't Bank on Amerika" by Peter Beskin will be shown at St. Mark's Church at 7, 8 and 10 p.m.

COLLEGE OF LETTERS AND SCIENCE: Deadline to drop a course or change your grading option is today at 5 p.m. in the Registrar's office. GERMAN CLUB: There will be a Faschings Party at 8 p.m. with

refreshments, Bowle, dancing, etc. \$1/members and \$2/non-members. Sign up in the German Dept.

SOCIOLOGY DEPT: Symposium on "Salt of the Earth," featuring the author Michael Wilson, the organizer Clinton Jencks, and Deborah Rosenfelt, will be held in Physics 1610 at 6 p.m. (film) and 8 p.m. (discussion).

KCSB: "No Brains Radio" features a live interview with Bruce Campbell, producer of Dalton Trumbo's film "Johnny Got His Gun," followed by some fine folk music fun. All with Tom Brown at 1 p.m. on 91.5 FM.

IVCC: We hereby invite all Isla Vistans to celebrate the christening of "Town Hall" formerly the I.V. Planning office, after dark, at 966 Emb. del

IRO: Abbe Kingston, lawyer, will be discussing laws concerning foreign citizens in the U.S., such as immigration, labor certification, employment. Noon, UCen Program Lounge

TRI-COUNTIES BLOOD BANK: The blood bank has opened a new donor center at Fairview Elementary School, 401 N. Fairview, in Goleta. The center is open Fridays 4-6 p.m.

TOMORROW

WOMEN'S CENTER: Workshop - Beyond male and female roles, exploring new ways of relating. Format of the workshop will center around group discussions, films, and multi-media presentations. Call to sign up at the Women's Center between 9:30 and 4 p.m.

UCSB BIKE CLUB: This Saturday, the ride will go to Westmont College. This has a few hills and total mileage of 25 miles. The ride will leave at 8:45 a.m. from the A.S. Bikeshop.

COALITION AGAINST OIL POLLUTION: An oil scrape will be held on Saturday at 1 p.m. for 1 hour. Meet at the top of the stairs at Camino del Sur and Del Playa. For more info, call 968-2415

HILLEL: Shabbat morning minyan at 10 a.m., URC.

CAFE INTERIM: Salsa music with Pinche Pete and his band at 9 p.m. in bldg. 434. \$1 donation.

"THE PRODUCERS": Mel Brooks' academy award-winning film about a neurotic accountant (Gene Wilder) and a has-been producer (Zero Mostel) who scheme to produce the worst Broadway musical ever; 7, 8:45, 10:30 p.m., Chem 1179.

MERHABA FOLK DANCE CLUB: The fourth annual Milan Obradovic Folk Dance Festival sponsored by Merhaba will be in the Old Gym. The first class in Balkan dances will be at 11 a.m. and the second class in Romanian dances will be at 2 p.m. There will be exhibitions at 7 p.m. \$2

DAS ORGANIZATION: Lilith Theatre, an all women's theatre group from the Bay Area will be doing a workshop performance at Das Institut, 795 Emb. del Norte in I.V. at 8 p.m. There will also be an open workshop in Madrid Park at 1:30 p.m.

ANNOUNCEMENTS

WOMYNRHYTHMS COLLECTIVE: There will be a Womynrhythms Workshop on Sunday, Feb. 27 at 11 a.m. for womyn only. If you are interested in exploring your creative, emotional, physiological cycles, and developing your skill join us - 764 D Birch Walk, New Married Student

LUTHERAN STUDENT MOVEMENT: Lutheran worship will be held at 9 a.m. at St. Michael's Church, Camino Pescadero and Picasso, Sunday, Feb.

DOONESBURY

















Being Gay

(Continued from p.6)

phone number of the Gay People's Union. Call during the evening and tell the person who answers that you'd like to talk. There is no reason to be afraid or embarrassed. We know where you are at, and we'd like to hear from

Dorm living can really repress a gay lifestyle, so you might consider moving into I.V. to take some of the pressure off. The GPU usually has names of other gay persons who are looking for roommates.

Remember, you are not alone. But you've got to make an effort to find the rest of us. Good luck.

Tom Guelcher Gay People's Union

Salt Water

(Continued from p.6)

And write to the editors of the large California papers, to farming associations and to anyone else who might be concerned with this and who carry some political weight in California and the nation.

Jaqueline L. Heinlein

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Cocktails



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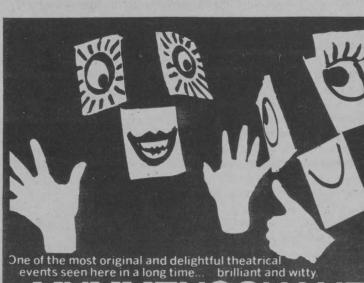
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Yugoslavian Troupe Strengthens and Expands Folk Dance Heritage

By Robert Fleischer

On the evening of President's Day, the National Folk Ballet of Yugoslavia performed before a sellout crowd at Campbell Hall. The Folk Ballet is internationally acclaimed as one of the finest ethnic dance troupes in existence, but it wasn't until this year that they made their first United States tour. Whatever reasons behind the delay, myself and the people that filled Campbell Hall were excited and pleased that they had arrived.

The performance was a strong mixture of beautiful strains of music, colorful costumery and intricately staged dances, all in the style of the varied cultures of Yugoslavia. The knowledgeable Branko Markovich is the director and prime choreographer, and it is because of his choreography (and also the dancers' skill and enthusiasm) that so many simple "people's dances" are combined into appealing, invigorating and powerful suites. Often it seems that many ethnic dance troupes will color or even drown out the authenticity of the folk message through over-choreography or by implementing a flashier ballet style over the "less exciting" folk style. By contrast the choreogrpahy of Branko Markovich seems to strengthen and expand on the folk heritage. Although the suites and routines were staged, the steps, styles and characteristics were accurate and only rarely overplayed.

Brankovo Kolo (or Branko's Dance) opened the performance with a nicely done medley of song, dance and costume from nearly all the different regions of Yugoslavia. An aspect well liked by the audience was a human cylinder from Crnogora made up of two layers of five men, the upper standing atop the lowers' shoulders. The men on bottom danced a slow oro, exhibiting nicely the strength and balance of the male dancers.

Following this was a suite of seldom seen Albanian dances, which included a nice little three-step couple dance (with whirling variations) that was nastily interrupted by a fight over the girl. The swordwork and acrobatics were essentially ballet and added a touch of drama that was perhaps unneeded. At any rate, it made for entertainment.

From Dalmatia comes a dance of halting steps and whipped spins called Lindzvo (pronounced Lin-jo). The couples revolve around a central musician and a caller who maintains the beat by

either dancing or stamping on the ground. In the most amazing sequence the man, while holding both the woman's hands (her being next to him), will whip her around to his other side, twisting her with a force that seem likely to break her arms, her skirt flaring and her feet not missing a beat. This dance, with its irregular rhythm and grinding music, made for one of the high points of the evening.

To end the first part, the folkdances of Macedonia were depicted, and began with several beautiful, pulsating women's dances. The small tight movement of the women was well contrasted with the open and strong, yet precise leg lifts of the men dancing the Lesnoto. The Lesnoto was accompanied in an irregular rhythm by a large base drum known as a tupan. A gaida (bagpipe) would have aided the effect immensely.

Opening the second part was a nice, clean suite of Serbian dances. It began with some quick stepping U-sest variations from Western Serbia then migrated east to the shepherd dances of Eastern Serbia. These dances are characterized by high bounding steps and kicks, some seemingly in mimicry of the actions of herding the sheep. Eastern Serbia's dances contain many styles and steps reminiscent of neighboring Bulgaria, particularly in such precision footworked dances as the Chopsko. The simple beauty of these dances and the clean movement and costumery of the dancers in this suite brought exceptional visual pleasure.

The suite from Vranje is a fitting end to the program involving a village dance in southeastern Serbia, it contrasts nicely the structured Turkic influence on the villagers against the romantic free style of the gypsies. One group of men in the suite, all wearing red fez, danced a strong lifting dance. The slow fall to the knees and subsequent rise, along with the painful knee drops show greatly the Oriental influence so prevalent in this area. The gypsy style "belly dancer" was a seductive flash of color and motion, and her style contrasted with the stiffer villager style, and played greatly on the theme of the extreme cultural variation in dance in just one small area of Yugoslavia. The color and excitement of this full-troupe suite was a fine finale to this long awaited evening of ethnic dance.

Butley

a play by Simon Gray

8:00 PM, Monday, February 28 Main Theatre, UCSB

General Admission \$4, UCSB Faculty and Staff \$3, Student \$2
Tickets on sale at UCSB Arts and Lectures Box Office;
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Presented by the UCSB Committee on Arts and Lectures, Winter-1977 and the UC Intercampus Cultural Exchange



Play of Robin and Marion

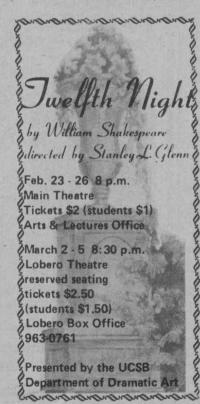
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MAR. 4 - 8 pm Campbell Hall, UCSB

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FRIDAY, FEBRUARY 25, 1977

PAGE 9

'Thieves': Bittersweet Comedy **Expresses Urban Isolation**

It is a strange by-product of our urban society that an individual can be surrounded by humanity and yet remain seperate and isolated.

Even stranger, many have come to prefer or to glorify this situation by, under the emotionless guise of survival, claiming responsibility only for themselves, their families, and perhaps a few friends - severing any ties with human society as a

"Thieves," currently showing at the Magic Lantern, is an expression of urban isolation; it evokes the imagery of this isolation and the ways in which different individuals survive within its concrete jaws.

If the film were to be placed in a specific genre it might be called a bitter-sweet, social commentary, comedy romance. One could call "Thieves" a modern fairy tale where, instead of boy meets girl, fall in love and ride off to a castle, boy and girl suffer from a identity crises creating an inability to communicate, boy and girl have

grown apart without noticing. They are both teachers: he at an exclusive private school, and she at a ghetto public school. He represents an upward mobile conservative trying to forget youthful idealism, while she plays the liberal clinging to her youthful idealism, and they have both just moved into a new security highrise with all the other moles.

If some blatant paralleling seems to be afoot, don't worry, it is. But that is the major reason for its success as a comedy; stretching reality to its absurd extreme, like violence in slapstick come dy, is what makes it fun.

What little verisimilitude the film has is the depiction of the world surrounding the couple; the indistinguishable difference between the abnormal behavior of the apartment dwellers and the furtive people of the streets. The winos and weirdos seem real, the businessmen seem real, we have seen their faces before.

Irwin Cory does an excellent job as a vital, but aged, taxi driver

The actors performances were

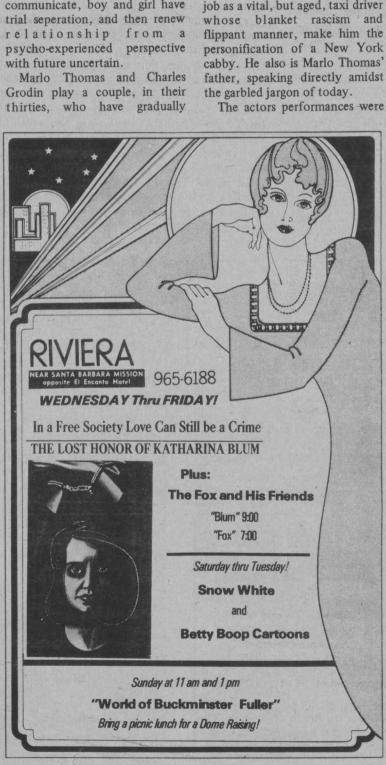
good overall. Marlo Thomas occassionly slipped into "That Girl", but her frenetic personality in the film is somewhat similar to her role as "That Girl," so this isn't necessarily against her.

Cinematography was excellent, opening with a "Taxi Driver" sequence of city lights reflecting off wet asphalt, then moving into several rapid film and sound cuts disjointed cacaphony of a highrise apartment and the surrounding city. Throughout "Thieves" the cinematography reflected and supported the themes of the film.

The film's title works on several levels. There are socially defined thieves who steal

belongings in general; there are corporate thieves, men with business suits and briefcase who create the socially defined theives; there are thefts committed upon the self, those of self-denial; then there is time, the finest thief of all, who robs us of our youth and dreams, unless







Planning Office Seeks Funds to Renovate Isla Vista Bus Stops

By Bill Denahy

Isla Vista's aging bus stops will soon be getting a major facelift, according to the Isla Vista Planning Office, which is requesting \$9,000 in federal revenue sharing funds from the county to help finance the improvements.

Îsla Vista Designer Jeffrey Gross said the refurbishing includes lighting and the posting of schedules at each location. He also called for the upgrading or addition of benches and shelters at most of the stops.

The Metropolitan Transit District (MTD) recently upgraded the bus stop at the corner of Camino Pescadero and El Colegio, as part of a program to improve stops throughout their

The I.V. improvements, however, will be designed to retain the "character" of the original stops, Gross said. Many tilework, along with unusual bench and shelter designs.

Gross said that the basic goals of the program are to improve benches and shelters at each of the stops, but to use the old facilities where possible. In addition, the stops will be landscaped and watering systems may be added. The lighting will be routed underground to add to the aesthetics.

Schedules with route and time information will also be posted at each stop. And Gross said that arrangements are being made with MTD to provide scheduling information to bus riders.

Gross also called for the introduction of uniform paving at all of the stops. He hopes that by using a standard tile pattern or other material, it will be easier for riders to recognize the bus stops. Gross said that the night lights and posted schedules

of the stops have sculpture and should encourage the use of MTD routes in I.V.

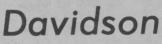
Although many stops over the years have deteriorated due to weather and vandalism, Gross said that the upgrading will leave most of the stops in their original style. He explained that only structures which are beyond practical repair and cannot be fitted to the new plans will be removed.

The program is slated to begin in mid-summer, pending the June approval of the \$9,000 in revenue sharing by the County Board of

A Hot Night for the **Bank of America**

Seven years ago today, in the late night hours, the Isla Vista branch of the Bank of America was burned to the ground. A retrospective report in the Nexus five years later described the

"By 6:30 the night of February 25, 1970, windows in realty companies were being smashed. A fire was set in a trash bin at the Bank of America. As 150 policemen swept the crowd to disperse it they were barraged with rocks and retreated; a patrol car was overturned and set on fire. Gas was used on the crowd. Meanwhile the fire enlarged, and fire equipment was not able to make it through the crowd." That's the way is was...



(Continued from p.3)

role of agencies and committees is not really self-evident. We had to work it out carefully."

In conclusion, he says that "the easy thing for a government to do when confronted with a new problem is to create a new agency or committee. We must guard against this tendency. For our government to function properly, there is a need for readjustment and constant evaluation of its structure and function."

AWAITING FACELIFT - Many of Isla Vista's deteriorating

bus stops will be renovated soon, according to the I.V. Planning Office. Changes will include lighting and posted schedules.

Photo by Eric Woodbury

Press to Roll

Print Shop Granted Temporary Reprieve

By Terry Fahy

Council voted 9-6 Wednesday night in favor of keeping open the A.S. Print Shop and withholding any layoffs or firings until March 10. They also formed a committee to "provide Council before next Wednesday with a break-even budget (for the shop) if possible, for the remainder of the year."

The first proposal passed after 90 minutes of discussion, argument, and accusations between Leg Council and Print Shop employees and their supporters. The Shop's backers packed the meeting room to protest the Council's February 16 decision to close the shop on March 3 because of it's "financial insolvency."

An audit of the shop by Bartlett, Pringle, and Wolf, showed a \$9,954 deficit fro the June 1974 to June 1976. The debt for the first half of this fiscal year is \$6,332, according to a summary statement prepared by the University accounting department.

Perry Landsberg, speaking for A.S. Printing, objected to the February 16 decision because he believed that the information

used by Council to make it's decision was inaccurate. He said Ad ministrative that A.S. Assistant Carolyn Buford's recommendation to the Council that the shop's financial situation "is only getting worse" was based

on innacurate information.

Landsberg presented council with A.S. Printing's financial projections for the remainder of this fiscal year which showed, he said, that with the removal of a three-fourths time staff person (\$500 a month), the change from a Xerox to an IBM copy machine (saving \$791.58 a month), and the increase of printing prices by 10 percent (increasing profits \$81.03 a month) the shop should "about break even."

Landsberg added that two of these measures, laying off the staff person and increasing printing prices were enacted early this month.

Skip Shands, president of the American Federation of State, and Municipal County, Employees (AFSCME) local 673 (which represents 14 A.S. Print Shop employees), opposed Leg Council's February 16 decision and the first proposal passed Wednesday night. He plans to get a court injunction which would keep the shop open for 90 days, when an "unbiased" committee could investigate the causes and legality of Leg Council's action of February 16.

Landsberg said that the committee which Leg Council formed on Wednesday night to provide a break-even budget for the shop was "stacked", because only one council member who voted to rescind the February 16 decision is on it. He also said both Buford and UCen Director Bob Lorden are on the committee according to Print Shop Director Mike Bartfeld, they were initially responsible for closing the shop.

'Oil Scrape' Today

The Coalition Against Oil Pollution will be holding an "Oil Scrape" today at 1 p.m. at the Camino Del Sur/Del Playa steps.

A career in lawwithout law school.

This Weekend's Special Is Entitled:

"Golden Protest"

An Undercurrents Tribute

To The 7 Year Anniversary

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If you are interested in decisions affecting your education, you are encouraged to seek one year appointments, beginning September 1, 1977 and ending August 31, 1978.

Nominations for the student members on these committees are made by the student Body Presidents' Council (SBPC), and appointments are made by the University President. Committees will meet three to six times a year, usually on the Berkeley campus, and transportation expenses will be paid by the University.

For application and further information contact the Associated Students office (961-2566) or the Student Lobby Annex (961-2139), both located on 3rd floor UCen, or the Graduate Student Association office (961-3824), located in South Hall.

DEADLINE: MARCH 1



Photo: Jac Nickoloff

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In checking our records we find we can still sell a limited number of '77 La Cumbre yearbooks at their regular price.

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Get yours now for \$12 before they are all gone. They are available at the Nexus Classified Ad Office, Storke Bldg. Rm. 1053 or at the A.S. Cashiers (3rd floor UCen).

NOTE: TODAY at 5 pm is the last day persons may submit their photo for inclusion in the class section.

Three Assembly Bills Aim at Reducing Number of Abortions

By Hugh McIntosh Sacramento Correspondent

SACRAMENTO - Three bills aimed at reducing the number of abortions in California were introduced in the assembly Tuesday.

The bills, (AB 595, 596, 597) were introduced by assembly member Alister McAlister (D-San Jose). Two of the bills are designed to discourage abortion and a third is to encourage adoption as an alternative to abortion.

"I consider abortion to be one of the most serious social ills of our society," McAlister said.

AB 595 would prohibit the abortion of a viable fetus "except when necessary to preserve the life or health of the mother." According to a Health Department official, a U.S. Supreme Court ruling in 1973 stated that only a physician can

determine the age in which a fetus becomes viable. This ruling has invalidated the California Health and Safety Code section which says that a fetus becomes viable after 20 weeks.

A physician violating this law could be suspended or his/her license to practice could be revoked.

"Although the United States Supreme Court has generally legalized abortion and has invalidated general statutory prohibitions of abortion, the court has indicated that a state may still prohibit an abortion of a viable fetus, except when necessary to preserve the mother's life or health," McAlister said.

AB 596 would require a minor to consult her parents or guardian before getting an abortion. If they do not consent, she may get a court order authorizing the

According to the Department of Health, more than 135,000 abortions were performed in California in 1974. About 34 percent of those who had abortions were under the age of

"There are too many minors getting abortions without their parents knowing about it," McAlister said. "Whether a law such as AB 596 is constitutional is still an open question with the United States Supreme Court."

AB 597 is designed to encourage adoption. The bill would permit a state income tax deduction of all adoption expenses up to the current legal maximum of \$1,000. Under present law, only those adoption expenses which exceed three percent of the taxpayer's total adjusted gross income can be deducted.

Campus Pool to Remain Warm

The California Public Utilities Commission (PUC) has eased its order restricting the use of natural gas to heat swimming pools. But most of the 250,000 pools in the State are going to remain

The change yesterday from the February 1 order allows these exceptions to the ban against heating with natural gas:

Pools used "primarily for educational swimming instruction, competitive swimming events, or training associated with such competitive events."

In order to comply with the PUC order, heating was ordered shut off at several campus pools, and was lowered to 78 degrees in the main campus pool.

UC President David Saxon had ordered the shut-off of natural gas heating in all campus pools before the modification of the

Now, according to Stephen Goodspeed, vice chancellor for administration, "we'll leave the faculty club non-heated, we won't turn heat on at San Rafael, and we'll leave the heat at 78 degrees in the main pool in the Old Gym."

"You just can't have classes in a pool which is outside with a temperature less than 78 degrees," Goodspeed said.

Other exceptions include:

Pools used for maintenance or restoration of health pursuant to an organized or medically directed health oriented swimming program, including senior citizens or retirement community swimming programs."

Pools using solar heaters as the primary source of heat with a standby natural gas heater.

Classified Ads

Lost & Found

Cash reward—no questions asked—for info leading to recovery of Azuki 10-speed taken from 6661 Berkshire, No. 3, Fri. nite, Feb. 18. Call 968-349.

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Personals

Boke-on-toosh on your birthday and make it PHENOMENAL. We miss your hugs and smile. HB

Deb & Molly

Cindy-Here's looking at you kid. not to limit yourself though.

Oscar—Boke-on0Toosh, you're 22. Have a phenomenal time. You can bet will be high, cuz that is an undeniable fact on the face of it. If conditions ok, let's ski Sat.—the O&O

Little Blonde Pecker: Happy Birthday (a little late). I love You—Sweaty Ple.

SEAN: Really enjoyed the tapes. Guess delay in return qualifies me as a full fledged procrastinator! THANK YOU MUCH!

WANTED: One Wily, neurotic, insane ex-Nazi to direct overgrown moron strung out on LSD in the Broadway flop of the year. "The Producers," tomorrow night, Chem 1179, 7, 8:45, & 10:30.

See Gene Wilder get hysterical & Zero Mostel seduce little old ladies in Mel Brooks' "The Producers," Sat., Feb. 26, 7, 8:45, 10:30, Chem 1179,

 $AD\pi$ —Come to Ye Olde Malt Shoppe tonight for the best 50's dance ever! Psyche up for a live D.J., contests & a bitchin' time.

No, silly, magnetic tape does not wipe off. Mashu

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Female roommate needed for 2 bdrm apt in I.V. Available immed. Non-Smoker, Call 968-3033.

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yard, \$117/mo. 685-2573. needed to share rm in duplx w/2

floors for Spr Qtr. 6653 Tarde, No. A, 685-3230. Jan. Own rm, and bath in quiet Gol. Condo \$162.50 mo. 685-3507

FEMALE roommate needed to share three bed house in Goleta. Call 968-6249

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RICHARD LEAKEY, son of the late Dr. LSB and Mary Leakey, lectures tonight in Campbell Hall at 8 p.m. on "Exciting New Early Man Discoveries in East Africa." Mr. Leakey is pictured above at East Lake Turkana, Kenya. The lecture this evening will be illustrated by a recent film taken on location in Africa, with live narration by Dr. Leakey. Tickets are available at the Arts and Lecture Ticket Office, as well as at the door.

Renaissance Studies Enjoy Renaissance Among Students

Talk about inventions! These people invented our civilization.

They are the men and women of the Renaissance: Shakespeare, Michelangelo, Erasmus, Galileo, Luther, Medici, Queen Elizabeth, da Vinci and many others.

No wonder that university faculty and students are attracted to this period, says Dr. Richard Helgerson of UC Santa Barbara, chairman of one of the few programs in the nation offering a major in renaissance studies.

Scholars representing eight different fields attract students to 70 courses dealing with this heady period when men gained a radically new sense of themselves and their surroundings.

"The people of the Renaissance explored and conquered the New World," he says. "They plotted the movement of the heavens and discovered the circulation of the blood. They restored the arts and learning of antiquity and forged the great vernacular literature of Europe.

"They gave us oil paint, printing and artillery. They reformed religion, revived skepticism, developed our sense of the past, and paid more attention to the individual and his unique destiny than had every before been done."

Among the eight students choosing to major in this exotic field is Melissa Bruml, a senior. She finds the Renaissance program not only intellectually and artistically exciting but practical.

Practical? Yes, she says, explaining that she is gaining the strong preparation needed for admission to UCLA's graduatearts management program. And that, in turn will prepare her for a job in museum administration.

Another senior, Teresa Frary, has a double major in English and Renaissance Studies and is planning to do graduate work in English. She is enthusiastic about the Medici Florence seminar offered this quarter.

Florence was a particularly exciting city during the 15th and 16th centuries. Under the Medicis it attracted the best minds of the time in the arts and sciences, she

Taught by Dr. Abraham Friesen of the history department, the seminar course will add another dimension to her knowledge of English literature by learning about the historical, social and artistic trends parallelling literature written at that time.

Another student with a double major, junior Kevin Stevens, thinks the Renaissance studies program offers intellectually stimulating courses which will improve his chances for acceptance to the graduate school history program.

Most Renaissance Studies students have double majors, comments Dr. Helgerson. The Renaissance studies major added to a major in one of the standard disciplines makes these students quite attractive to graduate school he says.

How about those lovers of the Renaissance who do not find it practical to enroll in the program - what can they do?

They can take just a few courses of particular interest to them or participate informally by joining the Renaissance Club, says Dr. Helgerson. Or they can take a six-week summer course offered by the Renaissance Academy in conjunction with the Shakespearean Festival in Ashland, Oregon.

Writing AEC History Is Subject of Talk

Dr. Richard G. Hewlett, chief historian of the Energy Research and Development Administration, will give a free public lecture on "Adventures in Writing the History of the AEC" Wednesday at 7:30 p.m. in the UCSB Physics Bldg., Rm. 1015.

Dr. Hewlett had served as chief historian of the Atomic Energy Commission (AEC). His talk is sponsored by the UCSB history department, the Quantum Institute and the Science and Society Forum.

'Quiet Resignation'

National Study of Housework Conducted by 2 Sociologists

castle, but it doesn't make the housework any more glamorous for his wife.

Her daily duties and attitudes toward them are the subject of a nationwide, random-sample research project entitled "Urban Household Work and Mental Health" by sociologists Richard Berk and Sarah Berk of the Social Process Research Institute at UC Santa Barbara.

They are interviewing 800 married women and 400 of their husbands on nearly all aspects of household work: number and types of tasks; attitudes toward them; time required; division of family labor; effect on family size and spacing; use of alcohol and drugs; effect on occupational or professional aspirations of the

To encourage unsolicited information not likley to be gained through the questionnaire and interview, the women participants (and some of the men) have been asked to make notations or diaries of their hourly activities.

The study is financed by the National Institute of Mental Health and is limited to intact married households. Its results

TO STUDENTS

LETTERS AND SCIENCE

DEADLINES - Undergraduate

students in the College of Letters

and Science who wish to

withdraw from a course or

change a grading option for this

quarter must turn in a petition by

COURSE WITHDRAWAL

1) Petitions are available in the

2) The instructor's

endorsement is required before

3) A \$3 fee is assessed and

must be paid before submitting

the petition. (CASHIER'S

OFFICE CLOSES AT 4 p.m. and

a depository box is located

outside the office for sealed

4) DEADLINE: Petitions must

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Office or in to the Cashier's

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(See the Schedule of Classes and

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If you have any questions or

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Office at 961-3109.

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is required on the petition.

1) Be certain the course is

today, February 25.

Registrar's Office.

submitting the petition.

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General Catalog.)

Registrar's Office.

February 25.

A man's home may be his are expected to aid researchers, analysts and government workers concerned with population trends and availability of women in the work force. Divorce lawyers, also, may draw upon the findings in determining the monetary "worth of a wife."

"Just as the work environment in factories, businesses and other places where people normally are paid for their efforts effect employee mental and physical health, the household work environment has important implications for the individuals who labor there," the researchers

Yet there has been little study done by the two researchers and Catherine Berheide of Indiana University Southeast of suburban housewives in Evanston, Ill., produced findings which will supplement those of the current, larger study. Among these are:

- In the vast majority of families, women still do the bulk of the household work, even when the wife holds down an outside job. And they do it with 'quiet resignation."

Many women find that it is less trouble to do their husband's and children's share of the chores that it is "to get after them."

- A high percentage of women are doing traditional "men's work," such as mowing the lawn, taking out the garbage, keeping the family accounts and even shoveling the snow from the walkway.

- Contrary to popular conceptions, standards for

British Film Critic to Talk

British film critic John Russell Taylor will discuss "Dreams of Reason - a View of Science Fiction" at 3 p.m. on Tuesday in South Hall 1004 on the UCSB

Taylor, who is currently commuting between England and Los Angeles as professor film at USC, began his career as a sub-editor for "The Times Educational Supplement", moving to film critic for "The Times" in 1962. His articles appear regularly in "Sight and Sound," "American Film" and other film journals.

In addition to his critical writing, he has served on film juries for festivals at Berlin, Teheran and has been critic-in-residence at the Stratford International Festival.

He is the author of "Cinema Eye, Cinema Ear," "The Hollywood Musical," "The Second Wave: British Dramatists for the Seventies," and his newest work, the official biography of Alfred Hitchcock, comes out this year both in England and America. He has also begun to work on the authorized biography of George Cukor.

This public service page is provided by the UCSB Public Information Office.

grandma's day. And some "labor-saving devices" created different duties and demands.

"A modern porcelin stove must be kept sparkling," the researchers note. "Who bothered to clean a black woodburner? And with a washer-dryer, we expect a clean shirt daily. When washing was done on a scrub board, dried on the line and ironed, we wore the same shirt a number of times."

One aspect of household work which the Berks hope their one-year study will shed light on deals with the "trivialization" of such duties.

"Home-making is certainly easier with vacuum cleaners, prepared foods and readywear clothes. But have we taken the meaning out of it?" they ask. "After all, making bread an mending clothes were once a matter of survival. Now it's a matter of deciding which brand to choose from the store shelf."

From the Evanston study the two sociologists observe that even though increasing numbers of men and women are hearing and agreeing with the message of the women's liberation movement, it has yet to be transformed into everyday practices and thought.

Lecture Set on **Medieval Art**

A free public lecture entitled "The Five Senses in Medieval Art" will be held on Tuesday at 5 p.m. in the Arts Bldg., Rm. 1426. Speaking will be Dr. Carl Nordenfalk, Director Emeritus of National Museum in Stockholm.

Dr. Nordenfalk has lectured widely in the United States on medieval and modern art. He is a former member of the Institute for Advanced Study, Princeton, and Slade Professor at the University of Cambridge. He also held the Kress Professorship at the National Gallery of Art in Washington.

His lecture is being sponsored by the Art Department.

Digs in China To Be Discussed

A free public lecture entitled "Recent Excavation and Archaeological Research in the People's Republic of China" will be given Monday at 8 p.m. in UCSB's Ellison Hall, Rm. 1940. The lecture, which will be illustrated with slides, will be given by Prof. Anneliesse Gutkind Bulling from the department of art history and archaeology at Columbia University.

The lecture is jointly sponsored by the UCSB classics department and the Archaeological Institute of America.

Netters Struggle Through Trip Now Playing San Diego Match

By Laura Fredericks

matches in four days...surely a difficult task for any team, and the Gaucho tennis players buckled under the strain.

The Men's team was on the road last weekend for what seemed to be a marathon tournament schedule. They played six individual schools, losing four and winning two of the matches.

Playing their strongest on Saturday against UC San Diego, the Gaucho squad came away with a 6-3 win. Key singles matches were won by Jim Thompson, Ken Koch, Scott Bedolla, and Dave De L'Arbre.

Sunday's match against Cal State Dominguez Hills brought the second victory. UCSB

Losses over the long weekend came against the University of San Diego, San Diego State, University of Redlands and Fulerton.

Besides the emotional strain of a long road trip, especially a disappointing one, Coach Greg Patton blamed the losses on the doubles teams.

His singles players were strong throughout the weekend, but most of the matches were decided in doubles competition. In Patton's words, "doubles are our downfall, we just can't count on them; and the men are not playing smart doubles."

Jim Thompson, the number one player on the team, typifies Gauchos' discrepancy between singles and doubles while in doubles he is 0 and 6.

Thompson was praised along with Ted Filley, Ken Kock and Dave De L'Arbre for his excellent playing during the triple. Thompson won 5 out of 6 matches. "He is definitely one of the best singles players around," said Patton. His only loss came in the last match of the trip at Fullerton.

Overall the coach felt that the team was playing even with all the other schools but just not getting, or taking advantage of the breaks.

This weekend the team will travel to the San Diego Invitational Tennis Tournament. Fifteen schools will participate in the three day event, including four of the nation's top ranked

Rough Ruggers



PHIL BUGAY and Gaucho team mates will battle against Stanford and UCLA on Sunday.

By Ken Kauftheil

With an 8 and 2 record for the season, things are looking pretty good for the UCSB Rugby Team as they approach the coming weekend. Or are they?

Although the team is playing the best Rugby they've ever played, they are missing a few vital individuals. Most important among these is player-coach Mel Gregory. Gregory was injured two weeks ago and will be out for the rest of the year with knee complications.

This could hurt the Gauchos when they meet Stanford in the Stadium tonight at 7:30 p.m., and again when they face arch rival UCLA here at 1 p.m. on Sunday.

Playing these two top notch teams in a three day span could either prove disasterous for the Gauchos or give the team the lift they need for the rest of the season.

The Rugby team's troubles began a few weeks ago at San Diego in a game that was predicted to be a cake walk. UCSB not only lost the game in that surprising confrontation, they also lost

The Gauchos bounced back from their SDS defeat the next weekend however, pulling off an upset of their own against Long

As one of the best Southern California teams around, Long Beach outweighed Santa Barbara 20 pounds per man. The Gauchos were able to move the ball well despite the size disadvantage. Their victory was led by Phil Bugay and Rob

This past weekend the rugby team saw plenty of action again hosting Cal Berkeley on Saturday and Northridge on Monday. Saturday was the big game, and the Gauchos lost a difficult

On Monday UCSB defeated Northridge, running its record up to 8 and 2. The final score was 9-0. Andres Mahamud scored the only goal in the game while Phil Bugay kicked in the other five points. Coach Gregory was pleased both with the way the scrums handled themselves, and how they moved the ball.

With the stage thus set, this weekend's competition should proved exciting. Stanford is a top notch team and UCSB barely beat them last year with a blocked kick in the final seconds of the games.

talent. Thompson's record in teams: USC, UCLA, Irvine and completely swept the singles singles competition is 5 and 1, Arizona State. SUNDAY SPACEDIN) 12121313

This Sunday night from 5 to 8 you can enjoy our Spaghetti Dinner more than ever. Because you get all the Spaghetti 'N Sauce that you want. And included with your dinner is a serving of green salad and garlic bread. Spaghetti lovers, dig in!



910 EMBAR. DEL NORTE

Tracksters Running Today

The UCSB Women's Track team is hosting an allcomers league meet today. Competition will begin at 11 a.m. and continue through the afternoon.

All of the League teams will be competing in today's meet. These include Northridge, Cal Poly San Luis Obispo, Irvine, and Cal State

This is the last "tune-up" meet before real league competition begins next Friday, also at UCSB. Next Friday's meet will be a squad competing against CSLA is no charge.

while Northridge takes on Cal Poly San Luis.

Coach Laurel Treon considers today's meet "an excellent opportunity to see where we stand." The team will be able to plan how to set up their races as well as get a good view of the competition.

"We have the potential to do really well," said Treon. She encouraged all spectators to come double dual with the Gaucho out to the meet, for which there

Women Cagers Score on CSULA

Play Pomona Tonight

By Robin Updike

It was the battle of the "Kamikaze Kids" versus the "Giants" Thursday night when the Cal State Los Angeles Women's basketball team hit town. The average height of the Diablos' starting five was around 5'2" and they ran circles around the Gauchos the entire first half. UCSB changed its strategy after half time however, and eventually downed CSULA 6348.

"The Diablos are a very quick team," said UCSB coach Bobbi Bonace. "They intimidated us in the first half with their speed and aggressiveness. It was frustrating because we're a much better team. We have at least a 4 inch

height advantage and we dominated the boards."

UCSB made the first two points of the game, but the Diablos led by five points for the remainder of the first half. The Gauchos ran a zone defense which allowed CSULA to take advantage of their excellent passing and outside shooting.

Down 33-28 in the beginning of the second half, UCSB went to a person to person defense which slowed down the Diablos considerably. The second half was characterized by lots of fouling and jump balls.

High scorers for the Gauchos were Leslie Ford, 24 points and 18 rebounds and Mary Ann McLaughlin, 14 and 8.

Wednesday the Gauchos traveled to USC and aced out the Trojans 62-61. Coach Bonace was "extremely pleased" with Wednesday's game since USC is not in UCSB's conference. Also, UCSB came back from an 11 point disadvantage after the first half which, Bonace said, "shows that we are no longer a first half team. Earlier this season we looked as though we couldn't win a game in the second half. Now I know we can."

Tonight the Gauchos face Cal Poly Pomona in Rob Gym at 5:45 p.m. The last time the Gauchos met Pomona, Pomona intimidated UCSB with its height and aggressive style of play

The women are now 13-12



UCSB'S Leslie Ford (6'1") and Mary Ann McLauglin (6'1") easily out sized the CSULA team in Wednesday night's game.

Photo by Matt Pfeffer

Cagers Down Fresno, 70-61

winning streak to two, the UCSB basketball squad beat host Fresno State Wednesday night, 70-61, in a PCAA match-up.

In the first half both teams struggled to a tie score at mid-point. Then Dave Brown and Tex Walker put in a few quick baskets and UCSB pulled away to a 36-30 half time advantage. Turnovers were a key factor in the closeness of the first half;

Extending their modest UCSB had 12 to Fresno's 8 but the Gauchos held a 21-10 rebounding edge which helped them considerably.

> Walker and Brown each put in 22 points, while Oliveira scored 12. Wayne Stevensin continued his great defense and Richard Ridgway played a good floor game for the Gauchos.

> The win left the Gaucho record at 3-8 in conference play and 8-16 overall.

Women's Tennis Team Hosts UCI

Two weeks ago the women's tennis team trounced Cal Poly Pomona and Cal State Los Angeles 9-0, 9-0. The netters lost only one set the entire weekend.

Last Friday the team traveled to Cal Poly San Luis Obispo and wiped out the Mustangs 9-0.

UCSB is just too good for its competition.

The problem is that like most UCSB teams, the women's tennis team cannot really be competitive against the big league schools like UCLA, Stanford and USC who give full scholarships to team members, yet the Gauchos far outclass the caliber of teams like Pomona and San Luis

The only team that will be difficult for the Gauchos to beat in the Southern California Athletic Association Conference will be UCI. The Anteaters will be at UCSB this Friday for a match that will be held on the West courts at 2 p.m.

"UCI is really tough," said UCSB coach Lin Loring, "They're among the top four teams in the nation. They just won a big tournament in Arizona and they won our tournament earlier in the season. We have a chance to beat them Friday, but we'll have to play really well."



SCOTT CARLSON, diving Gary Sato, left, and Bill Richardson will lead the Gauchos into action tonight against Pepperdine. The match Photo by Cam Lorentz

Spikers Host Pepperdine

Tonight the UCSB men's volleyball team is scheduled for its second home match of the season, hosting Pepperdine in Rob Gym at 8 p.m. Pepperdine was the only team that the Gauchos couldn't beat last year and they are currently ranked second in the nation.

The Waves will be led by

outside hitter Mark Rigg (6'5"), and Setter Jay Anderson. Their other setter is US National Team member Ron Wilde and John Zabriskie is the team's bit hitter. The Waves are always a very tall, very good team.

Pepperdine recently creamed UCI and Loyola 3-0, 3-0, but those two teams are never strong and the wins are not good indicators of Pepperdine's power this season. UCSB is coming off its 8-15, 15-3, 15-10, 15-8 win against Long Beach State last weekend.

Weekend Sports

Women's Tennis v Irvine	1:00 p.m.	West Courts
Volleyball v Pepperdine	8:00 p.m.	Rob Gym
Women's Basketball v Pomona	8:00 p.m.	
Men's Rugby v Stanford	7:30 p.m.	Stadium
Women's Track All Comers	all day	UCSB Track
Baseball v UCLA	2:30 p.m.	UCSB Field
Women's Swimming; Stanford Invit.	all day	Palo Alto
Tennis v San Diego Invit.	all day	San Diego
Tennis v San Diego Invit.	all day	San Diego

SATURI	DAY	
Women's Tennis v CSULA	10:00 a.m.	West Courts
Swimming v Alumni	1:00 p.m.	Campus Pool
Wrestling v PCAA		Rob Gym
Track v Westmont	1:00 p.m.	UCSB Track
W. Swimming; Stanford Invit.	all day v	Palo Alto
Tennis v San Diego Invit.	all day	San Diego
Volleyball v Loyola	7:30 p.m.	L.A.
Baseball v USC (2)	noon	L.A.

SUNDAY

1:00 p.m. Stadium Rugby v UCLA

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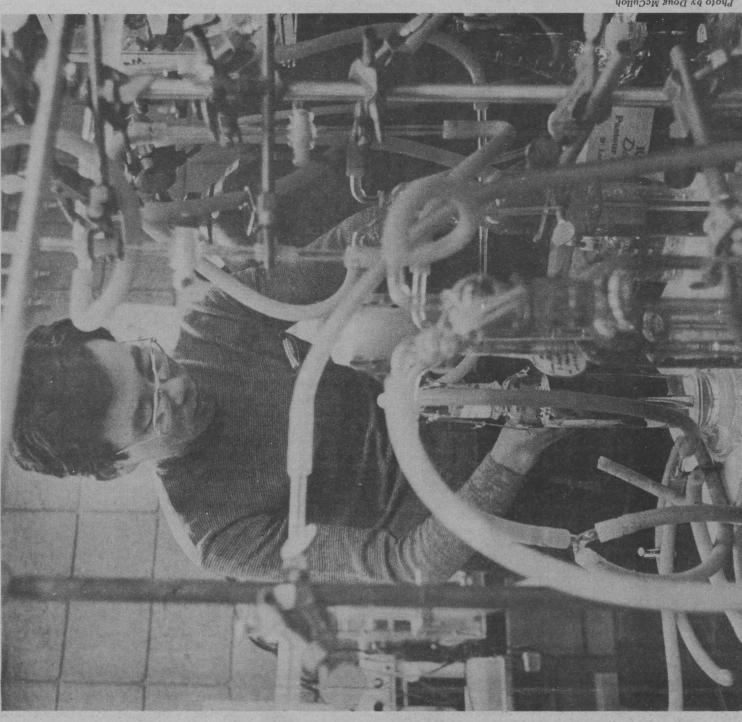
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