

# The UCSD Guardian

University of California, San Diego/Volume 45, Number 19/Monday, March 8, 1982

## Rally draws hundreds to protest cuts

### Speakers denounce Reagan for plans to slice \$3 billion in aid

BY JOHN SCHINNERER

"Higher Education — Who Can Afford It?"

So read one of the signs at the AS-organized rally against the proposed cuts in financial aid. These cuts, proposed by the Reagan administration, would mean an approximate \$3 billion reduction in financial aid by the 1983-84 academic year.

Before the start of the rally, which took place on Revelle Plaza at noon Thursday, signs denouncing the cuts were distributed to students in the slowly growing crowd, which amounted to around 350 people at the height of the rally. Television crews and radio newscasters were on hand to record the event.

The rally consisted primarily of numerous speeches by concerned students. Tom Rutter, Financial Aid Director and the only representative from the administration, started the rally off with a rundown of the basic facts and figures. The one that seemed to strike home the hardest was the increase in the category of "student's personal contribution," which Rutter stated would be in the neighborhood of \$2,000-\$2,500 by 1983-84.

AS president Jules Bagneris, who made some brief introductory comments and acted as a "master of ceremonies," announced Kristin Stelck, a Student Lobby assistant, as the next speaker. Stelck announced that the entire week had been declared "Resistance to Budget Cuts Week,"

and that rallies against the cuts were taking place on all nine UC campuses. Then, sounding like a proponent of proposition 13, she stated "I'm mad as hell," and proceeded to compare the student fight against the budget cuts to the struggles of the oppressed in Poland, Chile, and El Salvador. After Stelck directed insults at the Reagan administration, the previously subdued crowd became more vocal. "I think democratic revolution is still in the air (on college campuses and elsewhere)," she stated at one point during her speech.

Speaking next was Student Regent Linda Sabo. In the middle of her address, a military plane flew overhead. This led to her concluding statement, which was to the effect that "San Diego is a military and 'defense' oriented area. We need to tell these people that bombs, missiles, and other weapons are not where defense is. Education is our best defense."

People trickled in to fill out the crowd all through the first several speakers. After Sabo had finished, there was a brief "commercial break" to announce that tables were set up at the edge of the plaza with petitions on the nuclear weapons freeze, the water resource initiative, and the split-tax initiative. A table was also set up to register voters and to collect letters to be sent to congressmen and representatives, protesting the cuts.

AS vice-president Alma Key delivered a loud and resounding

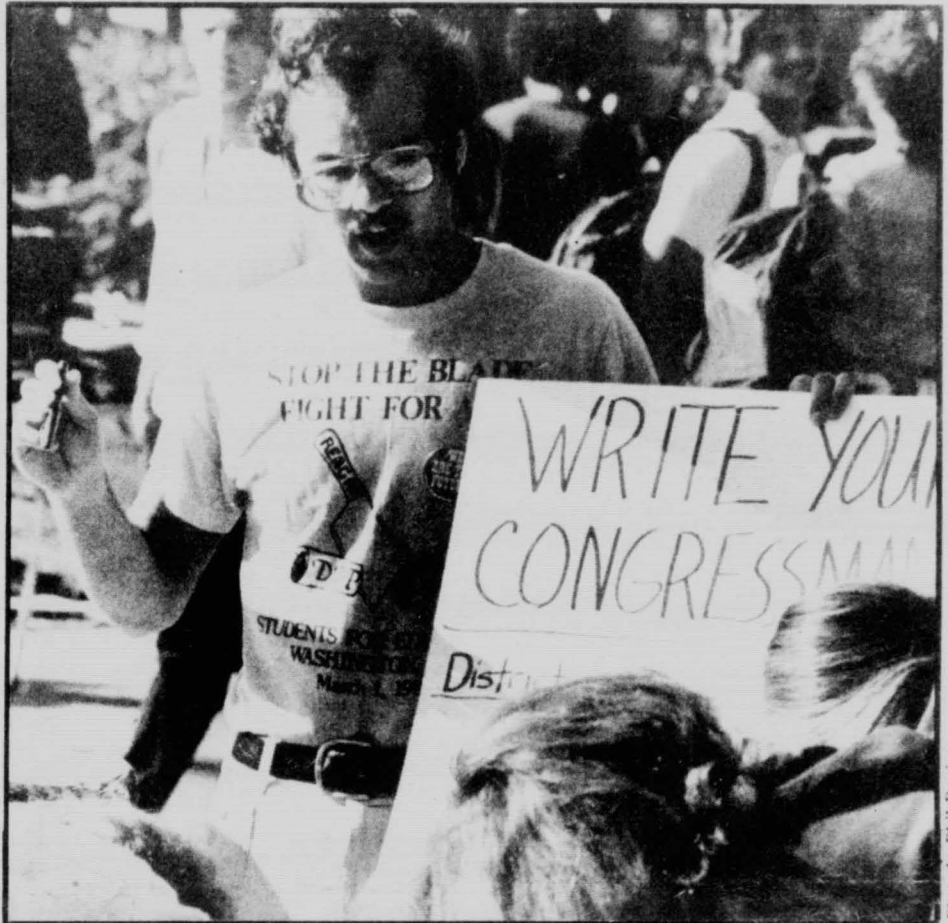


Photo by Phil Davies

speech, urging students to "come together and fight for a common cause," namely stopping the budget cuts. At the conclusion of Key's oration, about one-third of the audience left the plaza, perhaps because it was nearly 1:00 and time to attend classes.

Barry Hyman, representing the Graduate Students' Council, talked about how he thought Reagan was trying to "re-stratify society," dealing specifically with students, in that under the proposed cuts, only the wealthy minority would be able to afford quality higher education, thereby leaving the country with a shortage of qualified and well-trained scientists and engineers. He also pointed out the difficulties of working while going to school, and competing against wealthy students who don't have to give up study time to work for money for their education. "Students," he declared, "should not be ashamed to take money and use it to learn. Learning is work enough, without having to work for money to get the chance to learn. There is no

shame in being a student." Hyman also drew parallels between the organization of labor movements and the similar need for students or organize and unify themselves.

Finally, Dave Sadwick of the UC student lobby talked about the seeming myopia of the Reagan administration's cuts, how they will adversely affect the quality and integrity of the future leaders of the country, and how military build-up is not a solution to the problems we face. "We want money to fund education, not war! We must let our representatives and our congressmen know where we stand on military spending, on the financial aid cuts, and on Reagan," he exhorted.

After Sadwick was finished, Bagneris took the podium again. "Do students really care? I think that the number of people here today indicates that we do care," he stated. Later, Bagneris indicated that he thought there had been a "good turnout," for a "first rally," and that he was "not ashamed," despite the fact that some thought the turnout was poor.

#### UCSD MAJOR SOURCES OF FINANCIAL AID

	81-82	82-83	83-84
NATIONAL DIRECT STUDENT LOANS	\$524,000	\$503,000*	-0-
COLLEGE WORK-STUDY	\$635,000	\$558,000*	\$458,000*
SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT	\$520,000	\$390,000*	-0-
PELL GRANTS	\$2 Million	\$1.9 Million*	\$1.2 Million*
TOTAL	\$3.679 Million	\$3.351 Million	\$1.658 Million
QUARANTEED STUDENT LOANS	\$10 Million	\$6 Million*	\$6 Million
TOTAL	\$13.679 Million	\$9.351 Million	\$7.658 Million

\* Estimates

FPPC says profs must reveal business ties. Page 5.

Kapiloff introduces UCSD law school bill. Page 5.

Swimmers qualify for nationals. Page 13.

# Opinion

The UCSD Guardian encourages letters to the editor and articles for The Bottom Line column. If you would like to submit an article or letter, please type your work on a 72-space line (triple-space between lines) and send to the Opinion/Editorial Editor, the UCSD Guardian, B-016. All submissions must be signed by the author, and must include the author's phone number. The Guardian regrets that it cannot return any submissions.

## Scripps lifeguards

In what was called a "purely budgetary cut," the University has decided to save \$17,000 a year by eliminating the lifeguard service at Scripps Beach.

Is it really a "purely budgetary" cut? Scripps Beach, due to hazardous tidal conditions and high popularity, accounts for over five times as many rescues as the rest of the La Jolla Strand. Last year alone, 111 water rescues were performed.

That translates to about \$153 per rescue, which hardly seems a budget-breaking expense, at least to us.

This year, according to past record, the attendance should rise to 350,000 or more, with a subsequent increase in water rescue situations.

This year however, there will be no lifeguards. Director of Business Services Laura Long, who was directly responsible for allowing the contract to expire, reminds us that the guard service wasn't set up because "we (UCSD) felt any obligation to the community." No, it seems it was a greater problem. "The professors were complaining that people were using the gardens to go to the bathroom," Long says, laughing.

With the guards gone, people will again come back and fertilize the gardens. But they will also come back and drown.

The City of San Diego also refuses to cover the beaches. Mysterious "physical constraints" prevent them from protecting the community. In addition, and more importantly, they feel that Scripps is the

please turn to page 4

## Oliphant



SENOR CASTRO EXPORTS HIS REVOLUTION, AND SENOR REAGAN EXPORTS HIS ECONOMIC THEORIES... WHY IS EVERYBODY INTENT ON DESTROYING US?

## Letter to the Editor

### RCC clarifies boycott position

**Editor:** At the risk of belaboring the point, I would like to clarify, on behalf of RCC, our position concerning boycotts, AS policies, and society in general.

As reported in the article, *RCC Disapproves of Boycotts*, (UCSD Guardian, Mar. 1), the RCC is not in support of the AS sponsored campus boycott of Nestle's products. We have not adopted a stance concerning "infant formula disease" in underdeveloped countries — we, as a college council, are in no position to make such a decision. However, we have expressed to the AS Council our belief that projects such as the boycott of the Nestle Corporation, although well-intentioned, do not address the needs and primary concerns of the majority of UCSD students. We feel strongly that

UCSD students, faced with the prospects of cutbacks in financial aid and campus services, rising housing costs and a stagnating campus social life are much more receptive to AS programs and efforts directed toward their needs as students.

The RCC is not, as Reggie Williams (Commissioner of Student Welfare) charges, underestimating the intelligence of UCSD students. We are fully cognizant of the fact that UCSD students are well-informed and capable of taking rational stands on global issues; the question is whether the AS should attempt to translate students' international views into an active influence on world affairs.

In our opinion, the AS Council should first establish its credibility and record of

effectiveness on campus by addressing issues which directly pertain to UCSD students before attempting to become a political force on the national or international level. If the unfortunate trend of so-called "student apathy" is ever to be reversed, the AS Council will have to concentrate its energy, time, and resources on projects which are of genuine, widespread student interest. We realize that the AS is currently engaged in several such projects and we urge the Council to continue in its student-oriented endeavors. We are advocating not "isolationism" but rather, relevant, meaningful leadership.

Hoyt Yee  
Chair, RCC

## The Bottom Line

### A proposed Institute of Peace Research

By DAVID KUPFER

The purpose of the University of California is constantly evolving. What its founders envisioned some 113 years ago was rather modest, an institution for their own time.

The founders wanted a place where California's youth could find as much book wisdom as their minds could hold and as much civility as they could learn from each other and from the examples of their teachers. They wanted a source of practical information about the crops they planted, the animals they raised, the mines they worked, and the roads and bridges that they constructed.

Fortunately, although the founders' vision did not encompass the functions and potentials recognized today, their wisdom in giving UC flexible foundations, organization, and government have allowed it to change and grow. Because the founders imposed few restrictions, latter-day builders have been able to create one of the most renowned, influential, and complex institutions of higher learning ever devised.

There should be consensus between the nations of the world today that homo sapiens face a long list of interrelated planetary crises of unprecedented magnitude: resource depletion, poverty, famine, and increasing population pressures; ecological destruction, materialism, and the spread of arms and violent revolution; and the increasing chance of nuclear warfare, which on its own could create unfathomable horrors.

Clearly there exists an urgent need for a better understanding of the complex interrelationships between these global problems. Their solutions are dependent on action based upon such an understanding.

The need for a UC Institute for Applied Peace Research has been publicly expressed by those at the very highest levels of University administration: in February 1981, by Regent Willis Harman in proposal

for a Center for Cooperative Global Development; in May 1981, by University President David Saxon in an address to the National Conference on International Security and Arms Control at Lawrence Livermore National Laboratory; and in June 1981, by Governor Edmund G. Brown in a proposal for a Center for Global Security and Cooperation.

The University has been far from accountable in the area of promoting peace, for the UC Regents act as managers of a nearly \$1 billion Department of Energy contract to operate the Lawrence Livermore, Berkeley, and Los Alamos nuclear research labs. More than one-fourth of the labs' work is directed toward research and design of nearly all kinds of nuclear weapons built by the US government.

The University of California needs desperately to take on a catalyst role in the effort to translate the world's current spiral toward nuclear war into a global movement for peace and equitable resource management. Concerned students have been working actively to make this idea a reality for a long while.

On November 12, four out of five voting students at UC Davis endorsed in concept the Peace Institute. Further, they indicated strong support for an objective, comprehensive Institute, developed with broad student participation, and located on a UC Campus with extensions on each of the remaining UC Campuses. They agreed that such an Institute should engage in transdisciplinary, problem-oriented research, as well as public dialog, on cooperation, development, and non-violent, non-military means for attaining global security.

Albert Einstein once said that if you don't change where you're headed, you're likely to get there. The question is, where do we, the inheritors of a troubled world, want to end up. I must agree with what Richard Nixon said in 1978 at Oxford, that "it is a real shame if today's young people don't get involved

in something bigger than themselves."

The UC Academic Council recently appointed a Special Committee on Global Security and Cooperation to consider the establishment of a center to explore new and existing ways to control the development, use and proliferation of nuclear weapons, as well as the ways in which the pressures of Third World development impinge on potential international conflict.

The Committee, made up of members of the systemwide Academic Senate, has begun its deliberations and has invited responses from all interested members of the academic community. They're also soliciting information about ongoing research activities that address these issues. Fifteen copies of statements of interest and ongoing research should be submitted to: Special Committee, Box G, Office of the Vice-President, University Hall, Berkeley, CA 94720. These statements must be received no later than December 15 if they are to be considered by the committee in formulating its recommendations. Proposals that have already been received by the Committee may be reviewed in the Academic Senate Office on every campus. The Student Body Presidents Council has become active on this issue and in order to see a transdisciplinary, non-cooptable institute created, is submitting a proposal of their own. Contact your local SBPC Rep through Student Government.

Peace is a universal issue everyone should be able to relate to. As the world populace trudges down a helter-skelter path, more people, from religious leaders to President's daughters to housewives to University Presidents, are jumping on the peace-mongering bandwagon. My point is there's room for more.

David Kupfer is a junior at UC Davis and works for the UC Appropriate Technology Program as Editor of UCAT's quarterly newsletter.

## Letters to the Editor

## Hubig

### Equal opportunity

**Editor:**

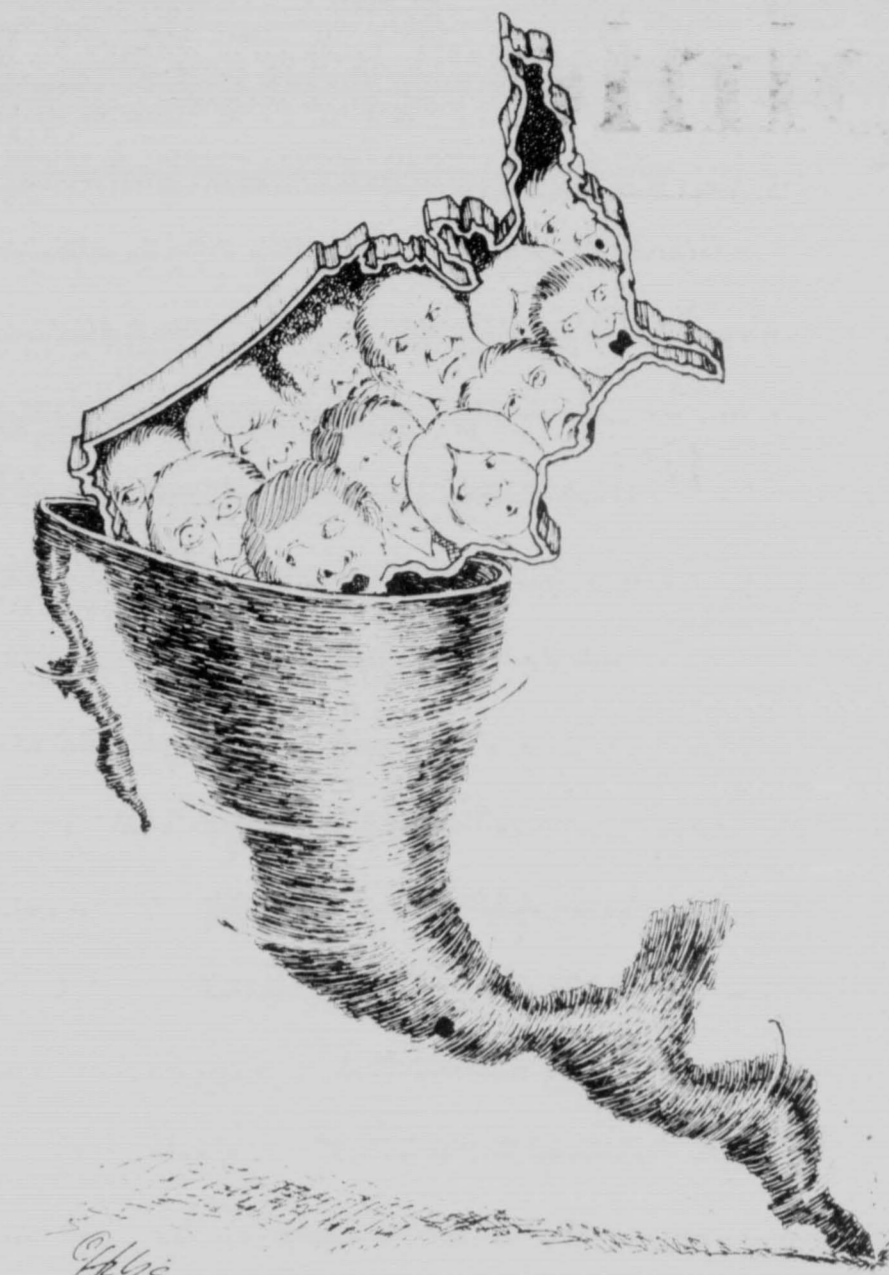
The Declaration of Independence written by our forefathers states that, all men are created equal, that they are endowed by their creator with certain inalienable rights — life, liberty, and the pursuit of happiness. I am sure all "self respecting" Americans are proud to follow these words of wisdom and give everyone an equal opportunity in America. This does not mean that we have to be educated, but rather the right to equal opportunity for all. But, I must remind Robert J. Nagler concerning his letter (UCSD Guardian, Feb. 25), that in a capitalist nation where one has to compete to gain in life, an education is often the key to entering the capitalist competition. In the real world, it is difficult to attain competitive status without a college degree.

I'm sure Mr. Nagler's idealistic Protestant ethic, that people like to earn their pay, is quite true when one is fortunate enough to have a high paying and interesting job (much like his high paying job related to his studies). Unfortunately, I will have to put his facts and statistics in their proper perspective. It is often difficult to find a campus job, much less a stimulant. Previous budget cuts have already limited departmental funding and available student jobs (especially non-work-

study jobs). If one is fortunate enough to find a job, 20 hours a week (19 hours is the campus maximum, by the way) can be an impossible burden to serious students — particularly with difficult majors, or to students who care enough to provide volunteer time to the campus and community. Also, it is difficult to find summer and vacation jobs since UCSD gets out so late in the year and students are available for employment for such a short time (not to mention the importance of summer school to many students). I know it's disillusioning to many college students, but some students do not own cars, stereos, or gold mines to cash in; nor do their parents have an excess \$700 to dish out, a bed to spare, or a vacant condominium in La Jolla to give their children.

I'm sure these realizations are alarming to some. This is the reason many students do not mind the "hassle" of financial aid forms and will greatly be effected by proposed budget cuts. I understand the competition in classes can often get tough at UCSD, but eliminating top scholars because of budget cuts will only lead to lower university standards and overall American standards. To the "well off," the thought of equal opportunity for all means more competition in the job market, and often times a

please turn to page 4



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## Lifeguards

continued from page 2  
"Regents' responsibility." Perhaps it is. The Regents own the land, and as such have a public responsibility to protect its users. But UC systemwide legal advisor David Dorinson doesn't let public responsibility bother him: "How one should feel," he says, "is entirely different from how one is legally obligated to act."  
If the University is not prepared to demonstrate mature management over their community-use private properties, they should not be permitted to own them.

## Equality

continued from page 3  
lower paying job for the lazy and less qualified. In other words, equality for all should not be detrimental to anyone, except the less qualified who fear the advancement of the higher qualified. After all, a competitive society must have fair entry rules for all who want to play.

E.A. Lincoln

## The UCSD Guardian

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## Lifeguards eliminated at Scripps Beach

### Contract expires after 16 years

BY SCOTT YOUNG  
Staff Writer

Last year university-funded lifeguards at Scripps Beach had responsibility for 333,000 people, and made an all-time record 111 water rescues. This year, in what Laura Long, Director of Business Services calls a "purely budgetary cutback" in the wake of "continual funding constraints," the lifeguards' services have been completely eliminated.

On Nov. 1, 1981, the contract UCSD had with the city of San Diego for lifeguard services was allowed to expire, after sixteen years.

Begun in 1964, the contract provided for lifeguards, equipment and a vehicle from May 1 to November 1 of each year.

The services in 1981 cost the University just over \$17,000, for which the city provided two lifeguards per weekday, and three on weekends, a vehicle, public address system, flag warning system, traffic and parking control, crowd control, a resuscitator, emergency first aid services, and according to Sergeant Michael O'Hare, "the entire system of emergency back-up that the city has to offer...that means all emergency services."

Long, who is officially responsible for letting the contract expire, discussed in an interview how the lifeguard service began. "It was more for the convenience of Scripps... the water safety was incidental...professors were complaining that people were going to the bathroom in the gardens." Shaking her head and laughing, Long referred to the initiation of the services. "No, it wasn't done because we had an obligation to the community."

Though Long wasn't aware of it, the University owns the beach as a result of a California legislative grant in 1929. Because of this, Sgt. O'Hare feels "it's the Regents' responsibility to protect the people on that beach...we (the city) are not going to accept responsibility."

O'Hare went on, "most of the rescues performed on that strip, from the Beach and Tennis Club to the pier are on Scripps beach...there have been some real problems in the water up there, even with all the protective measures we've taken...as far as I'm concerned, this decision was totally irresponsible, the most irresponsible action in years..."

Emphasizing the danger, O'Hare continued, "the people

up there are kids from the Shores Hotel, tourists who always thought there were guards before, they go on up and see Scripps, then go swimming...with no guards up there, on a busy day, we could lose four or five people easily."

"I'm sure the people who set the constraints have no idea what it is like to leave a beach like that in the summer...it is catastrophic."

Catastrophic or not, the city shows little inclination to cover the gap the University has created. George Loveland, Deputy Director of the Coastal Division of the City of San Diego wrote, in response to the expiration of the contract, "our physical constraints are such that we will not be able to pick up lifeguard service for this area."

In the face of "budget cuts" to the University and "physical constraints" on the city, the issue of public responsibility has been curiously ignored. Conservatively estimated from past years' figures, beach use could go up to 50,000 or more, with a possibility of 125 or more rescue situations. The nearest lifeguard station is three-quarters of a mile away at La Jolla Shores, indirectly accessible through the telephone.

The University plans to deal with the potentially severe loss of life by putting up signs, in English only, warning people of the lack of lifeguards. The city has agreed to respond to emergency calls, as usual, safely driving their truck over crowded beaches.

As for legal responsibility, "water accident cases are hazy," according to Long, "there is hardly any way to determine who is at fault, no proof." David Dorinson, Associate Counsel for UC Systemwide Administration feels the same way, saying,

"the University is not liable in these cases."

Dorinson went on: "What public responsibility?" he said, "people should just assume the risks of their actions...it's an individual risk-assumable situation...Besides, people rely on lifeguards to save them, they go in the water and act foolishly and the lifeguard saves them. Who's to say they won't go find a lifeguard down the beach and act foolishly down there...there is no proof that leaving the beach unattended will increase please turn to page 12

## Law school proposed

Assemblyman Lawrence Kapoloff (D-San Diego) introduced legislation to establish a public law school in San Diego on March 4.

"There are currently four public law schools in the state," explained Kapoloff. "Three are located in Northern California within a radius of approximately 85 miles (Davis, Berkeley and San Francisco), where one-fourth of the state's population resides, while Southern California, with 75 percent of the state's population, only has one public law school (UCLA)."

"The problem has always been one of priorities and money," stated the Assemblyman. "I am proposing, however, a rather unique method for acquiring a law school without either adding to the total number of law schools in the state or costing the State of California any money."

Kapoloff's bill would permit the Regents of the University of California to acquire by gift the real estate and law library now owned by California Western School of Law, located at 350 Cedar in San Diego. The regents would be authorized to sell this property, which is worth several million dollars, and apply the proceeds toward

constructing a law school facility on the campus of the University of California at San Diego. The facility would then be leased for a nominal sum to the California Western School of Law to be operated as an independent, private law school for ten years.

At the end of the ten-year period, the University of California would assume control of the law school as a part of the UC system and, thus, acquire at no cost whatsoever an ongoing law school with all attendant facilities.

"It is my view," continued Kapoloff, "that people from the San Diego area contribute their fair share of state taxes, a portion of which goes toward supporting the UC system and the four public law schools. Under these circumstances, it seems to me that our youth should have the same opportunity to attend a public law school as someone residing in the San Francisco, Sacramento or Los Angeles area."

After assumption of the law school by UCSD there would be ongoing costs to maintain and operate the school and its faculty.

"Relative to such maintenance, and operational costs," pointed out Kapoloff, "you please turn to page 6

## Interest conflict code adopted

By HENRY SCHULMAN  
Sacramento Correspondent

SACRAMENTO — The state's Fair Political Practices Commission (FPPC) adopted a conflict of interest code for University of California professors, but representatives from both the university and the organization requesting the regulations said they are not satisfied with the final outcome. In a related decision, the commission announced that San Francisco Superior Court Judge Ira Brown ruled Friday that members of the UC Board of Regents are required to disclose outside financial interests.

The commission's decision essentially requires university professors to disclose their personal financial interests when they undertake research funded partially or wholly by non-governmental funds.

This regulation is designed to stop professors from choosing research solely because the results would help corporations in which they have financial investment.

If apparent conflicts of interest exist, a committee within the university will decide whether the professors can continue the research, or be disqualified from the projects.

With the success of high-technology electronics and genetics firms, many UC professors have bought into these companies, and do private research for them.

The university has argued that state conflict of interest regulations are unnecessary since the university has its own conflict of interest code. UC Academic Vice President William Frazer told the commission that new rules would be "onerous and burdensome."

Frazer said the university also opposed the new regulation requiring professors please turn to page 6

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# Funding interests

continued from page 5  
 sors who have no outside financial interests to sign statements to that effect, under the penalty of perjury. Frazer also complained about requirements that the conflict code apply to research done with private, non-corporate gifts to the university.

"Every time we place a new regulation on gifts, it becomes more difficult to tap new sources of income which we depend upon more and more in these difficult times," Frazer told the commission.

In general, Frazer said, the commission's guidelines were too restrictive, but the university could live with them.

Al Meyerhoff, representing the public interest California Rural Legal Assistance, said the commission's code does not go far enough in stopping conflicts of interest.

The CRLA, which petitioned the commission last August to create a conflict code for the university, has requested financial disclosure for professors doing research with public funds as well, which account for the majority of research money.

"We only got half a loaf," Meyerhoff said after the meeting, alluding to the commission's decision. He testified professors could easily help corporations in which they have financial interest by conducting publicly-funded research.

"Even with no private funds," Meyerhoff said, "if a researcher at the university is in a position to decide how public funds are spent — and there's a possibility of intellectual property of the university being transmitted to a private company — the public has a right to know about it."

The commission disagreed on grounds that publicly funded research is not made available exclusively to help private companies, and conflicts of interest would consequently be more difficult to prove.

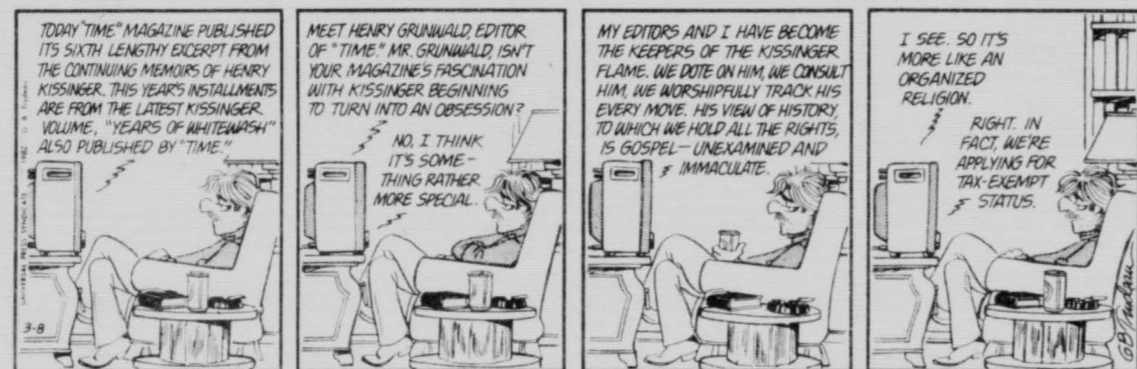
## Kapiloff's proposal

continued from page 5  
 must remember that by 1993 there is no question that we will need at least one additional public law school considering the recent baby boom and projected population increases.

"In light of existing fiscal restraints, which may last for a long time into the future, I feel this acquisition would be in the best interests of taxpayers and future students alike. While the Legislature cannot, under the State Constitution, mandate that the acquisition occur, we can give strong direction to the University by legislative approval of the project.

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by G.B. Trudeau



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The UCSD Guardian  
 Thomas Urbach, Science Editor

# Science

## Lobsters: succulent sea dwelling "bugs"

BY BERT N. KOBAYASHI

"Hey, Bert! Let's go bugging tonight to the Sweet Secret Spot!" That was the greeting that my good diver friends, Wayne Cottle and Mike Sweet, thrust upon me as I walked into my office last Thursday morning. As all of us seafood fanciers know, the California Spiny Lobster is called a "bug" and diving for lobsters is called bugging. Sweet's Secret Spot can not be precisely defined by this writer for fear of getting my air turned off during a dive by my good friends, should I announce that this secret supermarket for lobsters is located in North County. The avid interest in the California Spiny Lobster stems from the succulent and hearty taste of the tail meat — broiled lobster tails, sprinkled liberally with butter and paprika, with a dressing of rice and mushrooms, topped with cheese is a dish that any budding Galloping Gourmet would be proud to serve!

Well, just what is a California Spiny Lobster? Technically, it is a *Decapodan arthropod*, or, as the name signifies, an animal with 10 jointed legs. All of the 8500 species of decapods are similar in design, being generally called shrimps, crabs, or lobsters. The more than 20 species of spiny lobsters belong to the family *Palinuridae*. In North America, there are three species: our Californian species, *Panulirus interruptus*, ranging from Point Conception (around the San Luis Obispo area) southward to Bahia de Magdalena (almost to the tip of Baja California on the Pacific Coast); the Mexican langousta, *Panulirus inflatus*, ranging as far north as San Diego, and southward throughout the Gulf of California — it has an attractive blue-green coloration with white spots, longer appendages, and many more spines (don't try to catch one of these without gloves!) than the California lobster; and the Florida Spiny Lobster, *Panulirus argus*, which ranges throughout the Caribbean, and up the eastern coast of Florida. This eastern lobster is similar in appearance to the Mexican species.

The newcomer to bug hunting will rapidly find out that certain areas are better than others for finding lobsters. Certainly, the sandy bottom is not really a "hot spot"; the rocky bottom needs holes of sufficient size and configuration to contain lobsters measuring more than 11 inches long. A rocky area with lots of sea urchins is not conducive to lobster abundance, even if the holes and forage are ideal. However, prime abalone areas are often good bug sites. Lobsters may be found at all diving depths, including shallow tidepools. Films made by DEEP STAR depict lobsters as deep as 635 feet in Scripps Canyon!

There are certain areas where lobsters are more easily caught during the day — these are spots where the ledges or dens are not interwoven, and only extend back a foot or so. Other

areas in which the dens are densely interwoven or the ledges are deep, become more productive at night, when the nocturnally feeding lobsters are out foraging. Hence, the Sweet Secret Spot is a sure payoff on virtually any non-moonlit night with small surf.

The legal catch size of a California Spiny Lobster is a minimum of three and one quarter inches, measured in a straight line from the rear edge of the eye socket to the rear edge of the carapace, or body shell. This actually represents a lobster of about 10 1/2 inches long, or one slightly less than a pound in weight. This size determination of three and one quarter inches is one that cannot be fudged; you must carry some measuring device that will permit the accurate gauging of the lobster's size. The daily take and/or possession limit of seven lobsters is liberal; even Wayne can't eat seven lobsters at one sitting! Most divers find it impossible to "limit out," and a catch of three to four bugs is considered terrific.

During the day, lobsters are found in holes, with only their antennae projecting beyond the margin of the hole. As the intruder approaches, especially an area in which other intruders have already traversed, the lobster backs into the hole immediately. If not, one has a much better chance to capture it. The pros, such as Mike and Wayne, place one hand on the outside of each antenna as close as possible without alarming the lobster. Then, with a swift and sudden motion, their hands dart in and grab the base of each antenna. The outer, long segment of the antenna is easily broken off, for the lobster backs away and spins at the same instant that contact is established. This is why many first-time lobster divers have been stranded with a bunch of lobster "chopsticks" and nothing to eat. The larger the lobster, the easier it is to catch, but the harder it is to pull out of its hole. A 10-pounder will be quite strong, and it may be a few minutes before one is able to wrestle it out of its den. Once out of the hole, one hand can be used to grasp the lobster firmly at the bases of both antennae, open up the lobster bag, and place the lobster into the bag with the back of the lobster introduced into the bag first and the legs afterward. In this manner, one will avoid the frustrating experience of having the lobster grab the bag and close it for you before it is completely secure in the bag.

Lobsters are nocturnal scavengers, meaning that they leave their dens and hunt for food at night. Shortly after dusk, many of the bugs start charging about in the surf grass, up and down the sides of rocky reefs, up on the palm kelp, or even walk about on the sand. Many divers find this time to be most productive in finding and catching lobsters. The strong beam of an

underwater flashlight transfixes the bug for a few moments, especially if the diver is the first one into the area. As the lobster turns to meet the diver, it is seen to be carrying its antennae over its back, inasmuch as it uses those antennae for warding off a predatory fish.

Because of my many years of experience with lobsters, I am asked several questions repeatedly, which I will now pose and attempt to answer for the reader.

How old is a lobster? Although estimates of age vary widely, it is generally believed that a barely legal lobster is about 7-8 years old. Once hatched from the egg, the lobster goes through at least 12 different larval stages while swimming around in the water column. They are small and transparent during the 6-9 months spent in these stages. The last 1-2 stages are spent on the bottom, among the surf grass in very shallow waters, before transformation into a juvenile lobster. The lobsters are greenish in color then (an effective camouflage mechanism when among surf grass). Within the first year, these sub-adults moult (or cast off their external shells) up to 20 times, each time adding on a little size. During the second year of life, the moulting frequency decreases to 10-12, 3-4 times during the third year, and 1-2 times annually by the

fifth year of life. Thus, a legally-sized lobster only moults once yearly; the much larger ones moult only once every other year or even less frequently. A 10-pound lobster has been estimated to be anywhere from 20-30 years old.

What happens to a lobster when a diver breaks off a leg or antenna and fails to capture it? Given that the lobster is not fatally incapacitated by the loss of such structures, it can regrow the lost leg or antenna. However, it takes a minimum of 3-4 moults to replace a leg or antenna fully.

How does a lobster reproduce? The 5 pairs of walking legs are all similar to each other in the male lobster; in the female, the last pair of legs has an extra claw on the terminal segment. This claw is probably used to assist in the transference of eggs from the ovipositor (egg-depositing opening) at the base of the third pair of walking legs to the swimmerets on the bottom part of the tail. The sperm-depositing opening is located at the base of the 5th pair of legs. The tail has seven abdominal sections, each with a pair of swimmerets on the ventral side. In the male, these swimmerets are small, single-branched, and do not overlap each other. In the female, these swimmerets are double-branched, please turn to page 12

## Appropriate technology grants open to students

Small grant proposals (up to \$4,000, although several exceeding this amount may also be funded) are invited from faculty and students with faculty support. Mini-grant proposals (up to \$1,000), restricted to students with faculty sponsorship, are especially encouraged. Although funding is open for all areas of appropriate technology, the technical, socio-economic, or ecological aspect of the following five areas, preferably applicable to Californian needs, will be given priority: energy production from renewable resources, efficient end uses of energy, climatically responsive architecture, resource conservation and recycling, organic agriculture, and institutional factors affecting appropriate technologies.

Each project is to be of relatively short duration, with quality final reports received on or before September 30, 1983. Memos stating research progress are required every three months. Funds must be expended or encumbered by June 30, 1983. Proposals should be concise (two to three pages). Please do not submit resumes or letters of support. The

- following is the required format.
1. Project Title.
  2. Investigators, their titles and campus.
  3. Project objectives.
  4. Abstract.
  5. Experimental procedures.
  6. Time schedule.
  7. Explicit budget.
  8. Brief literature review and background.
  9. List of present grants in areas of proposed research.
- Abstract is extremely important — single-space type, 150 words or less. Present a clear overview of the proposed project and predicted value or application of results.

UCAT will support some demonstration projects and cite specific studies. The criterion central for such projects is that they produce a written report with results useful to other people. Please mail five copies of proposals to the address below on or before April 16, 1982: David J. Hills, UC Appropriate Technology Program, 2043 Bainer Hall, University of California, Davis, CA 95616.

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# The Weekly Calendar

## entertainment

### MONDAY

**3-6pm** — Women in Science Winter Quarter Reception. Come join us at the International Center. Meet your science faculty. We will be providing good food and childcare, and there will be entertainment by "yourself."

**5-7pm** — Ann Delamo: progressive lyricist accompanied by electric guitar. Dinner at the Che Cafe.

### TUESDAY

**5pm** — The students of UCSD's Intermediate Acting Class will present their recitals. Works include Shakespeare, Jules Feiffer, O'Neill and more. UCSD Theatre, Warren Campus. Free.

**5-7pm** — Nikola Thompson: progressive contemp. pianist. Dinner at the Che Cafe.

**8pm** — UCSD Jazz Ensembles in Concert directed by Jimmy Cheatham. Mandeville Aud. Free.

### WEDNESDAY

**7-9pm** — Celebration of Women's poetry. Sherley Ann Williams, Xelina, Gina Valdes, and Carlota. Dinner at the Che Cafe.

### THURSDAY

**5-7pm** — Annie Lebin: vocals and folk guitar. Dinner at the Che Cafe.

### MONDAY

**4:30-6pm** — TGIF at GroundWork Books in the Student Center. Make this month "March for Marx." Refreshments, lively discussion, all welcome!

**7pm** — "Sacco and Vanzetti" a powerful account of the infamous frame-up and execution of two Italian immigrants in the wave of "anti-Red" hysteria which followed the First World War. 118m. TLH 107. Free.

**8:30pm-12midnight** — Women's Center Dance with Masa-Latin/Salsa. Dinner at Che Cafe. \$2 presale, \$3 at door. Che Cafe.

### SATURDAY

**8:30pm-12midnight** — Che Cafe's Dance Concert w/Trowers, local raggaie. Plus Che Cafe boot with food and drink. Student Center Hump. Free.

### SUNDAY

**8pm** — UCSD Wind Ensembles: clarinet choir directed by William Powell. Mandeville Aud. Free.

## religious

### MONDAY

**5pm** — Catholic Mass held daily, Mon-Fri. Sponsored by the Catholic Community at UCSD. University Lutheran Chapel at La Jolla Shores and Torrey Pines.

**7pm** — Campus Crusade for Christ presents the final Monday Night Meeting of the 1982 Winter quarter — have we got a challenge for you. 2105 Bonner Hall.

**7:30pm** — Bible study on "Romans Chapter 7" in the lounge of University Lutheran Church. Sponsored by the Lutheran Student Movement.

### TUESDAY

**12noon** — Lenten Prayer and praise. Open to all. Come and enjoy some fellowship as we worship our Lord during Lent. Sponsored by Trident Christian Fellowship. Student Center Bldg. B (Back conf. room, behind pub).

**6:30pm** — Episcopal worship service. The Eucharist. Student Center, Bldg. B, 1st floor conference room.

**7:30pm** — Covenant Committee of Lutherans, Catholics and Episcopalians. All are welcome. Pastor Huber's study at University Lutheran Church.

### WEDNESDAY

**8pm** — Lutheran Lenten Fellowship, at a local residence. For directions, transportation or details, call University Lutheran Church. 453-0561.

### THURSDAY

**5:45pm** — Student dinner: join other students for good food and good company every Thursday at 5:45. \$1 donation, at University Lutheran Church. Sponsored by the Catholic Community at UCSD.

### FRIDAY

**6:30pm** — The second UJS Dessert Oneg. Bring your favorite dessert! International Center.

**7pm** — Ecumenical Lenten Supper of soup and bread with a discussion of "Bread for the World" in the Cath. Lounge at University Lutheran Church.

**7:30pm** — Intersivity/Trident Christian Fellowship meeting. What's on your mind as finals approach? Gain a fresh perspective as we worship the Lord in prayer, song, and fellowship. All are welcome. North Conf. Rm.

### SATURDAY

**9am** — Volunteers needed to improve building and grounds of University Lutheran Church. 9595 La Jolla Shores Dr. (across street from Revelle College).

**5pm** — Catholic mass sponsored by the Catholic Community at UCSD. At University Lutheran Church.

### SUNDAY

**8:30am** — Catholic Mass at University Lutheran Church.

**10am** — Lutheran Matins service. University Lutheran Church.

**10am** — Episcopal Eucharist. Transportation provided. Leave from the parking lot of University Lutheran Church at 9:45. Church of the Good Samaritan, 4321 Eastgate Mall.

**10:30am** — Catholic mass at University Lutheran Church.

**11:15am** — College Ave. Baptist Church presents the University worship service, specially geared to the needs of college age adults. Sunday college level Bible seminars at 8:45 and 10 am. 4747 College Ave, near SDSU. Anyone interested and who needs a ride call Matt at 455-1507.

**5pm** — Catholic Mass at University Lutheran Church.

## sports/recreation

### MONDAY-FRIDAY

**7-9am** — UCSD Cycling Team rides, meet at the Bike Shop.

### FRIDAY

**5pm** — Third Annual Coop 10K Run. Predict your time & win a prize. Sponsored by your coops. UCSD. Che Cafe. \$1.

### SATURDAY

**8-10am** — UCSD Cycling Team rides, meet at Bike Shop.

## lectures/discussions

### MONDAY

**12-2pm** — Mexico and the International Energy Market. Miguel Wionczek, Director, Program in Energy Studies, El Colegio de Mexico (Mexico City). Conf. Rm. 111-A. Free.

**4pm** — "Do you know what Rev. Moon teaches?" Very few students have taken the time to find out. We tend to rely on the hearsay of our friends. But none of these have actually heard the teachings of Rev. Moon. We want to present a lecture and then discussion on campus. Is this a man of God or not? Why

are there so many complaints about him? Does he believe in the Bible? Is he a Christian? USB 3050 B.

### TUESDAY

**10am** — Research seminar: "Evolution of the Universe" with Dr. Thiernans. Sign up in community center. Urey Rm.

**5-7pm** — "Marxist: Friend or Foe?" Is it for some, all, or none? Many students are hopeful that Marxism can be and already is a solution to many social problems. We want to research this ideology that controls much of the world. We need to sit down and discuss its roots, and its purposes. All are welcome, bring your ideas for discussion. USB 3050 B.

## services/workshops

### MONDAY-FRIDAY

**8:30-4pm** — How can you cut down on your study time and get more out of your efforts? Schedule an individual conference with the OASIS learning specialists to devise the best reading, learning or thinking strategies for your courses. We'll focus on your needs, including stress, time management, comprehension, memory, concentration, notetaking, and test preparation. Call 452-2284 to make an appt. USB 4010.

**8:30am-4:30pm** — OASIS Writing Center offers free service for all UCSD students who need pre-writing help, conferences on drafts, and editing advice. We engage any kind of writing and any kind of writing problem. By appt only. Call 452-2284 or come by 4010 USB to make an appt. Evening appt available. Available throughout the quarter.

**9am-4pm** — Grammar Moses Hotline — A grammar hotline phone-in service for help with diction, grammar and punctuation problems. To reach Grammar Moses, call 452-2284 between the hours of 9 and 4 pm, Monday - Friday. Sponsored by OASIS Writing Center. Service available throughout the quarter. Free.

### MONDAY

**9-10am** — Revelle Humanities Assignment Brainstorm: Small group class for Revelle students enrolled in Humanities Sequence 10B-20B, Chodorow. Preparation for writing directed at your particular assignment. Class meets in 4070 USB at the same time every week throughout the quarter. Sponsored by the OASIS Writing Center. No appointment necessary, just drop by.

**10-11am** — Revelle Humanities Assignment Brainstorm: Small group class for Revelle students enrolled in Humanities Sequence 11B-21B, Wierschin. Preparation for writing directed at your particular assignment. Class meets in 4070 USB at the same time every week throughout the quarter. Sponsored by the OASIS Writing Center. No appointment necessary, just drop by.

**10-11am** — Career options advising for Humanities and Social Science students. Sign up at Career Planning & Placement for a 15 min. appt. to explore career consequences of your major or particular occupational field. HL 105B.

**12-4pm** — Questions about Law School? Need catalogs, admissions info, or just want to find out what law school is all about? Stop by the Pre-Law Ed. Office. Mon/Wed located upstairs in the Student Center. Call x4687.

### TUESDAY

**10am-3pm** — Thru Thurs. Tax Forms. April 15, 1982 is the deadline for filing your state and federal individual income tax returns. If you are having problems locating the applicable forms, stop by the CalPIRG Office. Room 207, Bldg. A, Student Center.

**10am-3pm** — Thru Thurs. Renter's credit: you are eligible for a \$60 (single person) or \$137 (married couple) refund from the state of California if, on March 1, 1981, you were a California resident, on March 1, 1982, you rented and lived in a California house or dwelling which was your principal residence and was not exempt from property taxes. If you were a renter in previous years, you may be eligible for a renter's credit for those years. For more information, stop by the CalPIRG Office. Rm. 207, Bldg. A, Student Center.

**12-2pm** — Pre-law advising today and Thursday in the Pre-Law Education Ass. (PLEA) office located upstairs in the Student Center. x4687.

**2-2:30pm** — Quick appointments: sign up for a 15 min. appt. with the Humanities and Social Sciences advisor for info on employment opportunities, resume critique, grad school admissions, etc. HL 105B.

**3-4pm** — Informal advising sessions with the coordinators for Biological and Health Sciences Advisory Program. For help in career planning, job hunting and professional school preparation, see Ellen Moran and Beth Gex. No appt. necessary. Student Center Bldg. A, HSAP office.

### WEDNESDAY

**9-10:30am** — MBA & Law School advising drop-in hours: for any questions concerning the application process for law school, see the pre-law/management advisor. No appts. necessary, but call to confirm open hours. HL 105B.

**9-10:30am** — For more individual attention, sign up for a 15 min. appt. with the Humanities and Social Sciences advisor for information on employment opportunities, graduate school admissions, etc. HL 105B.

**10-11am** — Informal advising sessions with the coordinators for Biological and Health Sciences Advisory Program. For help in career planning, job hunting and professional school preparation, see Ellen Moran and Beth Gex. No appt. necessary. HSAP Office, Student Center, Bldg. A.

**10-11am** — Revelle Humanities Assignment Brainstorm: small group class for Revelle students enrolled in Humanities sequence 12B, Arneson. Preparation for writing directed at your particular assignment. Class meets in 4070 USB at the same time every week throughout the quarter. Sponsored by the OASIS Writing Center. No appt. necessary, just drop by.

**1-2pm** — Career options advising for Humanities and Social Science students. Sign up at Career Planning & Placement for a 15 min. appt. to explore career consequences of your major or particular occupational field. HL 105B.

**4-5pm** — Revelle Humanities Assignment Brainstorm: small group class for Revelle students enrolled in Humanities Sequence 12B-22B (Jackson). Preparation for writing directed at your particular assignment. Class meets in 4070 USB at the same time every week throughout the quarter. Sponsored by the OASIS Writing Center. No appt. necessary, just drop by. 4070 USB.

### THURSDAY

**10-11:30am** — Quick appts. for more individual attention, sign up for a 15 min. appt. with the Humanities and Social Sciences advisor for info on employment opportunities, resume critique, grad school admissions, etc. HL 105B.

**10-11:30am** — Sign up for a 15 min. appt. with the pre-law/management advisor for info regarding admissions to law school or MBA programs. They can be scheduled on Wednesdays between 10 and 11:30am. Sign up at Career Planning & Placement. HL 105B.

### FRIDAY

**9-10:30am** — Quick appts. for more individual attention, sign up for a 15 min. appt. with the Humanities and Social Sciences advisor for info on employment opportunities, resume critique, grad school admissions, etc. HL 105B.

**9:30-10:45am** — 15 min. private appts. available with Beth Gex, Health Sciences advisor. Make appts. by phone, x4939, or in person no earlier than one day in advance. Student Center Bldg. A, HSAP office.

**2-3:15pm** — 15 min. private appts. with Ellen Moran, Health Sciences Advisor. Appts. must be made by phone x4939, or in person no earlier than one day in advance. Student Center Bldg. A, HSAP office.

## meetings

### MONDAY

**4pm** — Oppressed Jewry Committee. Muir Apt. Lounge.

**4pm** — There will be no Women in Science meeting this week, but come to our reception today from 3-6pm in the International Center. Free refreshments, childcare, and entertainment by "yourself."

**5pm** — the Student Center for Undergraduate Research and Innovation (SCURI) is holding its General Meeting to discuss the UCSD Undergraduate Journal, the SCURI Spring Symposium and other business. All interested students welcome! Student Center Office 3.

**7pm** — The Christian Science Organization will meet for brief inspirational readings and testimonies of how Christian Science

has helped members. All are warmly invited to attend. Revelle Informal Lounge.

### TUESDAY

**6:30pm** — Model United Nations: mandatory meeting for everyone who's going to Far West. We will arrange duties for the big advertising push for Rocky Horror, and we will meet in delegations. New members welcome. USB 4020A.

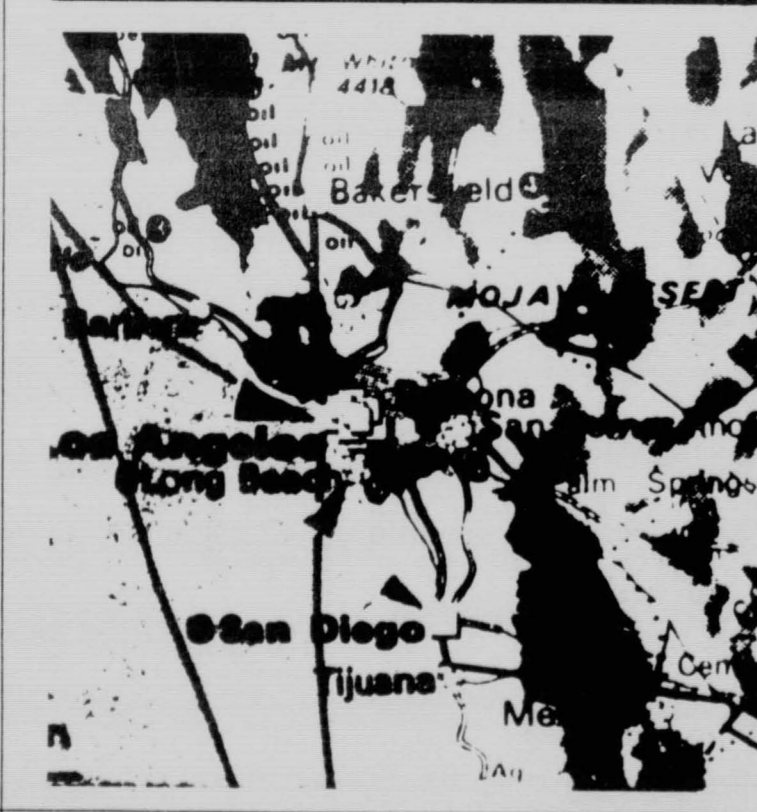
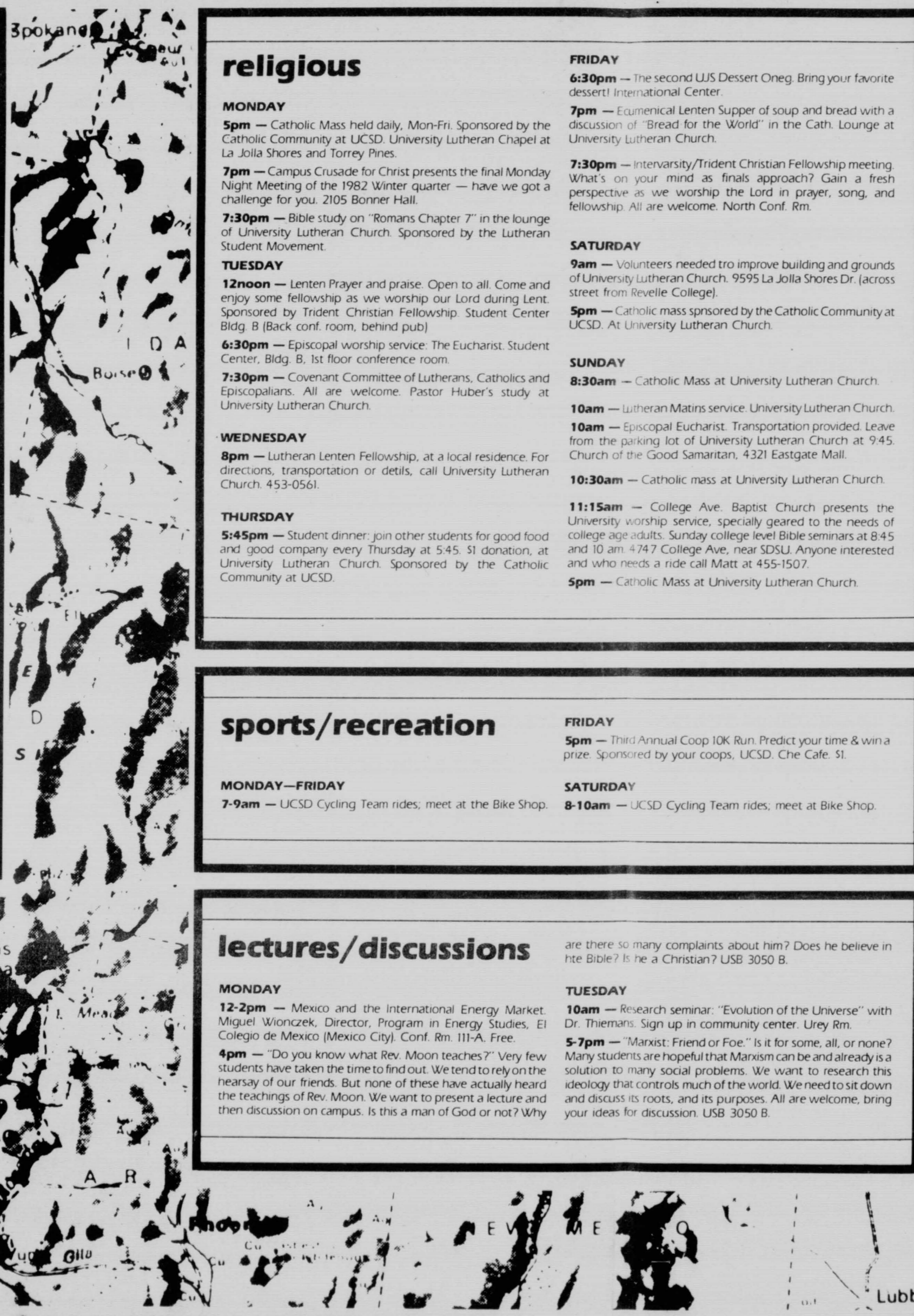
**6:30pm** — UJS organizational meeting. Grad. Student Conf. Rm.

### WEDNESDAY

**6:30pm** — L'Chayim staff meeting. Media Rm. Student Center.

### THURSDAY

**7pm** — Fight the preppie zombie clone menace! Join Darkstar and expand your event horizon! Revelle Informal Lounge.



# Speaker on plasma physics Earthquake research

**BY KEVIN FINE**  
Dr. Marshall Rosenbluth of the University of Texas at Austin gave the Maria Mayer physics colloquium last Wednesday, speaking on some of the problems with containing plasmas for nuclear fusion.

Rosenbluth has worked on the problem of nuclear fusion for many years, and is probably the best known and most often cited plasma physicist alive today. His audience filled USB 2622, and included physicists from nearby universities and local companies.

Under conditions of extremely high temperature and pressure, matter becomes a gaseous mixture of positively and negatively charged particles called a *plasma*. Nuclear fusion is the process in which light atomic nuclei combine under these conditions to form heavier nuclei. This fusion reaction releases energy. An example is the transformation of hydrogen into helium that occurs in the Sun, and which ultimately produces the energy we use on Earth. Nuclear fission, on the other hand, which is presently used in reactors, is the process in which atomic nuclei are split by collisions with energetic particles.

Fusion has already been artificially produced in the hydrogen bomb. However, no one has been able to control fusion to generate electrical power. If controlled fusion

were achieved, fusion advocates believe that man would have a virtually inexhaustible supply of clean energy.

There are a number of approaches to controlling fusion that are being investigated today. Rosenbluth spoke about the approach that many feel is the most promising. This approach uses a machine called the tokamak.

Rosenbluth explained that the heart of the tokamak is a donut-shaped vacuum chamber, several feet across in size. The vacuum chamber is surrounded by magnets that produce a magnetic field that follows the inside of the donut, circling around the donut hole. Hydrogen gas is introduced into the chamber and then heated until the gas becomes a plasma. The particles in the plasma follow the paths of the magnetic field lines. The field is shaped so that none of the particles touch the wall of the vacuum chamber, where they would lose energy.

As the particles circle around the interior of the vacuum chamber, they are heated using various methods. If they become hot enough, then collisions between the particles will produce fusion reactions, which will create energy. To create more energy than is consumed by the tokamak, the hot plasma must be contained for a long enough period of time. The point at

which as much energy is created as is consumed is known as "breakeven."

No one has yet been able to contain the plasma long enough to achieve breakeven. The reason is because of many different kinds of instabilities in the plasma. These instabilities allow the plasma to leak out of the magnetic field to the vacuum chamber wall, like water leaks out of a cupped hand.

The instabilities come about because the plasma produces its own magnetic field, which distorts the magnetic field of the tokamak. Dr. Rosenbluth divided the instabilities into two classes, the large scale or macroscopic instabilities and the small scale.

At the end of the talk, Rosenbluth was asked why fusion research has progressed so slowly, noting that decades have passed without success, and further inquired whether Rosenbluth really believed that fusion would ever produce power for our homes.

Rosenbluth said that he definitely thought that one day we would make an experimental tokamak that would achieve breakeven. He thought, however, that a commercial power plant was considerably more difficult. He said that there is no guarantee that a commercially viable fusion tokamak will ever be built.

**BY JOE FALLETTA**  
Senior Staff Writer  
Earthquake: the earth trembles, the ground beneath the feet heaves and groans while all one can do is stand helplessly vulnerable in a doorway and hope this will not be the big one.

For Californians, this fear is perhaps more common than in other parts of the continental United States, because of the much-publicized San Andreas Fault which begins near San Francisco, and runs south into the Gulf of California. Neither the phenomenon nor the fear is limited solely to California, though.

Prediction of earthquakes with an eye toward lessening their more serious effects, is the task undertaken by a group of researchers at Scripps Institute of Oceanography. As part of a larger program up and down California which studies a number of predictors and better methods of traffic management and hazard reduction, Scripps scientists Dr. Harmon Craig, Dr. Yu-Chia Chung and Sergio Damasceno monitor the levels of gases like radon and helium in deep well and spring water along three fault lines, in an effort to find a link between increases in gas levels and the likelihood of an earthquake.

Craig explains the theory, called the dilatancy theory, saying that rocks deep within the earth's crust contract along one plane and expand along another under pressure,

causing their pores to open. Gases trapped within the rocks are then released through the hot underground water, and eventually find their way to the surface or to monitoring stations at points along the faults.

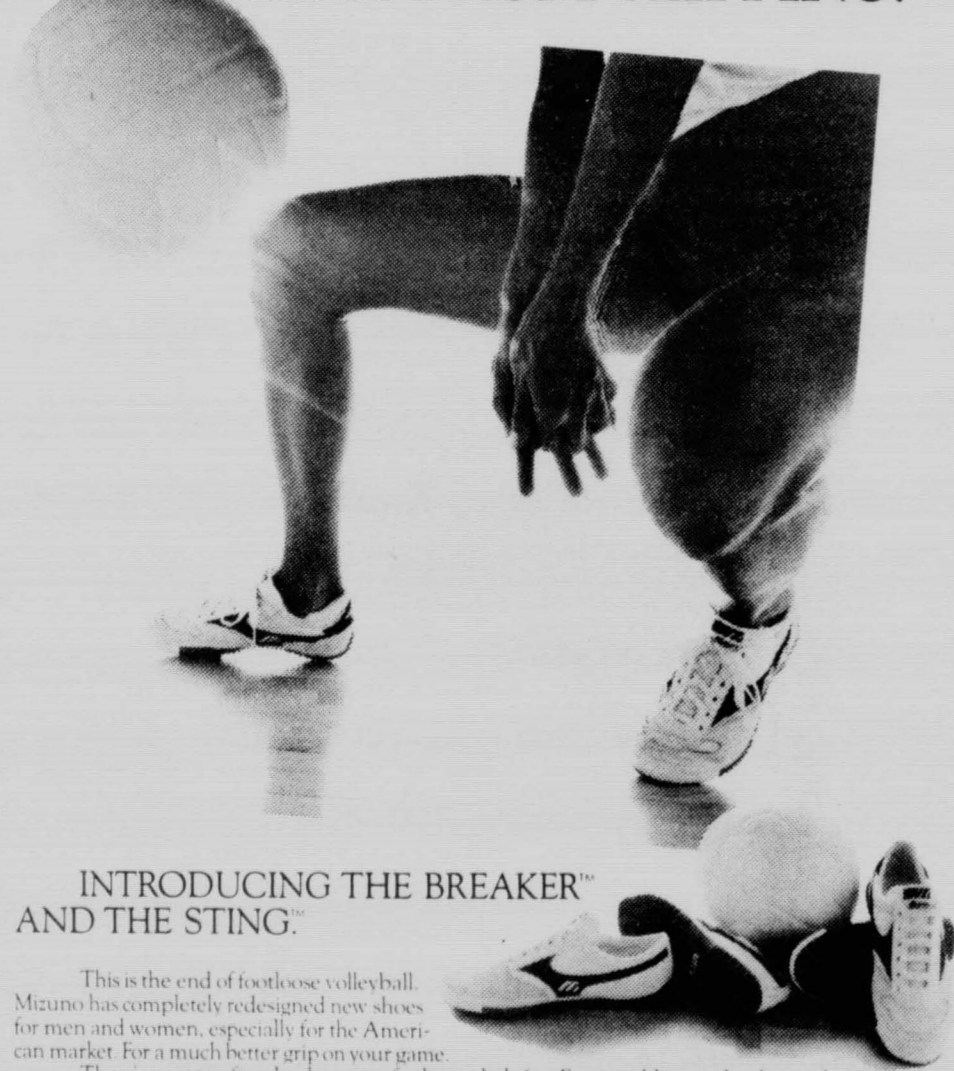
Radon and Helium 4, familiar to us as the gas that fills the blimps and dirigibles, flows from within the earth's crust. However, Helium 3 originates deep within the earth's mantle and has been monitored off the tip of Baja California, up the Gulf of California and as far north inland to the Salton Sea. Traces have also been discovered in Africa where Craig notes the horn of that continent is said to be breaking off similarly to the manner in which California's San Andreas Fault is splitting the state.

Helium 3, discovered by Scripps researchers 10 years ago, was found in the large plumes of black smoke seen off the tip of Baja California late last year, and is released in the geyser at Yellowstone National Park, Craig says.

And while researchers continue to monitor the release of the gas at these points, Craig and Chung note they have not been able to come up with any time-table regarding either the San Andreas Fault or the horn of Africa.

Along with helium and please turn to page 14

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# The Arts

## Performing arts captured in exhibit at Mandeville

'Artists and the Theatre' opens at UCSD on March 20

*Artists and the Theatre*, an exhibit offering a broad chronological survey of the contributions of 28 artists to the theater, will open Saturday, March 20, in Mandeville.

Organized by Beatrice L. Kerman of New York's Museum of Modern Art, the exhibit is a selection of highlights from the museum's Theatre Arts collection.

The exhibition includes 60 works on paper ranging in date from Leon Bakst's and Natalie Gontcharova's designs for the Ballets Russes of the second decade of this century to David Hockney's 1980 stage design for the New York Metropolitan Opera Company's production of Francis Poulenc's *Les Mamelles de Tirésias*.

In this century in which the impetus toward fusion has played a vital role in the transformation of art, it is not surprising that many of our foremost painters and sculptors have been ardent collaborators in the performing arts.

The exhibition takes, as its starting point, designs for Serge Diaghilev's Ballets Russes productions. Drawing together the greatest composers, choreographers, dancers and artists of his day, Diaghilev effectively transformed ballet into a synthesis of the arts.

The visual splendor of the early Ballets Russes productions is suggested by Leon Bakst's opulent and exotic 1913 costume design for the title role in *The Firebird* and Natalie Gontcharova's elaborate and fanciful stage decor conception, *The City Square for Le Coq d'Or* (1914).

Among the many artists who collaborated with Diaghilev are Michale Larinov, represented in the

exhibition by his 1915 Cubist-influenced costume design for the ballet *Chout* and his 1921 Neo-Primitivist stage decor for the ballet-burlesque *Le Renard*; Robert Delaunay, represented by his 1918 stage decor for Michel Fokine's *Cleopatre*; and Pablo Picasso, represented by *Two Dancers*, a pencil study depicting Diaghilev's dancers at rehearsal, later commissioned as the program cover for the company's 1919 London performance of "La Boutique Fantastique."

Documenting the widespread involvement of avant-garde artists in theatrical, cinematographic and ballet production in the 1920s are Sonia Delaunay's inventive costume studies for the Dada evening *Soiree du Coeur a Barbe* performance of Tristan Tzara's play *Le Coeur a Gaz*; Fernand Leger's 1922 designs for the Ballet Suedois' experimental productions *Skating Rink* and *La Creation du Monde*; Alexandra Exter's 1924 Constructivist costume design for Yakov Protazanov's science-fiction film *Aelita*; Laszlo Moholy-Nagy's 1923 decor design for Walter Hasenclever's play *Menschen*; and Oskar Schlemmer's 1916-1919 schematic costume studies for his *Triadic Ballet* and 1922 designs for the mechanical cabaret, *The Figural Cabinet*, performed at the Bauhaus in 1922.

Recent designs for the theatre include Jim Dine's drawings for the San Francisco Actors' Workshop's 1966 iconoclastic production of William Shakespeare's *A Midsummer Night's Dream* and 1967 costume design for an unstaged dramatic adaptation of Oscar Wilde's *The Picture of Dorian Gray*; David Hockney's designs for



Red Grooms "Moon-o-Nauts" is part of the "Artists and the Theatre" exhibits that opens at Mandeville on March 20.



## Jazz sounds at UCSD Tuesday

The UCSD Jazz Ensembles, sought-after participants in every major West Coast jazz festival, will present their Winter concert Tuesday at 8 p.m. in Mandeville.

According to director Jimmy Cheatham, special big shot surprise guest artists will join the UCSD Jazz Ensembles in their interpretation of great jazz works from the repertoires of Duke Ellington, Count Basie, Thad Jones/Mel Lewis, and others.

In addition to original jazz compositions by students, the small jazz combos will feature music composed by Thelonius Monk, Charlie Mingus, Charlie Parker and Miles Davis. Serious and fun door prizes donated by generous local merchants will be auctioned off for the benefit of jazz scholarships.

This concert is free and open to the public. For information call 452-3229.

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## UCSD swimmers earn a 2800 mile trip

BY THOMAS SCHMIDT

On the north wall of the swimming pool complex hung a banner proudly proclaiming, "Virginia or Bust! Qualify and you fly for free!" And in case there was any doubt, there was a banner on the east wall, which read, "Yes Virginia, there are National Qualifiers from UCSD." These two banners summed up the scene at the UCSD natatorium last Friday and Saturday evening.

Ten UCSD men qualified in 17 events for the National Championships at the University of Virginia, while 9 UCSD women qualified in 27 events for the Women's National Championships to be held at the University of Massachusetts. And yes Virginia, they are all flying free!

Overall, this is the best swim team in UCSD history. But as swimming coach Bill Morgan tells it, "This has been the most difficult season I have had as a coach at UCSD. We have had a lot of illnesses and injuries, but we have just about recovered from everything."

One thing the team never did recover from was a lack of divers. No, not a lack of good divers, but a lack of any divers at all. At the beginning of the season, the team had a diver in the person of Derrick Douglas, but when the UCSD Diving Coach quit over Christmas vacation to take the position of diving coach for the New Zealand national team, who could blame Douglas for quitting? This forced the team to automatically give away 16

diving points. Those points would have made the difference between victory and defeat in two dual meets this season, which would have improved the team's record from 2-5 to 4-3.

Nor did Coach Morgan map

out an easy schedule, choosing to swim against San Diego State twice and the University of Nevada at Las Vegas, both Division I schools. The women's team suffered from much the same problem as the men, having only one diver, even though Maureen

Kavanaugh is the best woman diver in UCSD history. Coach Morgan is already hard at work to relieve this diving problem. Morgan is luring swimmers and divers to UCSD with the promise of a new 50 meter pool complete with one- and three-meter diving boards.

## Women dominate weekend

Westmont College falls 7-2 and Cal Lutheran does not win a game as tennis team ups record to 8-4

By PAUL AMBROGIO  
Staff Writer

The women's tennis team defeated Westmont College Friday, and annihilated Cal Lutheran Saturday. Friday's 7-2 victory featured singles triumphs by Vikki Lareau, Laura Saavedra, Jenny Rens, and Lucille Fernandez. All three doubles teams won.

Saturday's match against tiny Cal Lutheran was as lopsided as could be. In fact, in sweeping the six singles matches the most games any Cal player won in a set was two. Neither Saavedra nor Fernandez lost a single game.

The singles action Friday was highlighted by a grueling two hour, 33 set struggle between Lareau and Skye Haskell. Top seeded Lareau took charge early to win the first set 6-0, but Haskell battled back to take the second 6-3. Lareau's concentration and stamina gave her the edge in the third set, for a 6-1 tally and the victory. Impressive newcomer Lucille Fernandez used a strong serve and timely volleys to defeat Allison Snelly 6-0, 6-1.

In doubles competition Friday, good teamwork by Cathy Sturdivant and Fernandez granted them a 2-set victory over Dana Woolbright and Lisa Ahlers. With Sturdivant primarily

playing back, and Fernandez charging the net, they returned almost everything while constantly putting their opponents on the defensive. Strong consistent serving by both girls added to their success.

Nadine Akimoto and Rens played extremely well together. Rens' quick feet

helped her outrun deep lobes and rush the net. The nonchalant Rens also used a powerful serve in attacking her opponents. Akimoto returned some very difficult shots including volleys at her feet, which she somehow scooped over the net. In number one doubles, please turn to page 14

## Canadian's rugby against UCSD

BY TYNA CALLAHAN

"I don't have anything good to say," Assistant Coach Peter Sertic grumbled as the UCSD Rugby team left the field after a 19-3 loss last Thursday.

Penalties weakened the Tritons in their game against Petersboro, Canada, and sloppy play eventually lost the game. "We gave it away, basically," said Sertic.

The team's few good plays, though heavily overshadowed by the bad, were exceptional. Dan Walters scored UCSD's only 3 points on a kick for post at an extremely difficult angle. Beautiful teamwork and wonderful plays came in spurts, but the Tritons simply lacked the consistency to overpower the touring Canadian team.

As the season progresses, quite a few players are being sidelined with injuries. This non-league game was not played with the normal limit of only two substitutions per match. The free substitution policy gave the coach a much needed chance to experiment with players and to evaluate the team's depth.

What the team gained from these experiments could prove very valuable next Saturday, March 13, at the College Playoffs in Long Beach.

## California Spiny Lobster

continued on page 7  
large, and overlap — it is on these organs that the female carries the orange-colored eggs in the spring breeding months.

Mating between fully mature males and females (probably 4-5 year old lobsters) occurs during the winter and early spring months; during this process, the male deposits a sperm-containing packet to the underside of the female, in the area between the bases of her last three pairs of walking legs. This packet contains countless numbers of sperm, and has the consistency of soft putty when first deposited. It is creamy colored at that time. Within a short period of time, this sperm packet hardens and blackens. The female containing this packet is referred to as being "plastered." The spawning, or laying of eggs, by the female actually takes place in the spring and summer months. The bright orange to reddish eggs are laid through the opening at the base of the third pair of legs, picked up and transferred to the fan-shaped swimmerets. Up to 500,000 eggs are laid by a single large female. She then faces upcurrent, rubs the bottom of her body against a rock until the sperm packet breaks open, releasing the sperm, which then drift back to fertilize the eggs. The female, called a "berried" bug now, seeks shelter in isolation in fairly shallow water and remains relatively quiescent until the eggs hatch in a few weeks.

What does a lobster eat? A lobster is known to be an omnivore, in that it eats virtually anything. Its diet has been found to consist of such diverse organisms as worms, other crustaceans or shrimp-like animals, snails and other

soft-bodied animals, sea urchins, virtually any species of fish, kelp, coralline red algae, and even surf grass. Looking at this situation from a totally different perspective, there are several predators that feed actively on lobsters. The chief ones are the octopus and several species of fish, including moray eels, sheephead, and the giant black sea bass.

Do lobsters stay in one hole or do they migrate? All evidence thus far indicates that the California Spiny Lobster engages in both of these types of behavior. A single lobster has been tagged and reobserved in exactly the same den for more than two years in a study undertaken by a group of UCSD undergraduates; in the same study, males were shown to exhibit a stronger tendency to "home," or to stay in one hole, than females. Many veteran divers will reveal the knowledge of the existence of a large bull lobster in their "secret spot" over long periods of time. Whether the bull is the same one or not over the entire period is of little consequence. What is important is to follow this mossback diver to the secret spot, so that you can see for yourself, and make the appropriate conclusions.

Although the evidence thus far does not indicate the presence of mass migrations of the California Spiny Lobster in the manner of the Florida Spiny Lobster, there is nevertheless a general movement of the population offshore during the winter months, and inshore during the summer months. A second group of UCSD undergraduates is currently working on detailing this type of migration.

How does the lobster see? The lobster's eyes, at the end of stalks protected by the large head spines, are made up of many facets and are thus similar to the insect's compound eye. Thus, it is doubtful that the lobster enjoys clear, sharp binocular vision; rather, it sees a mosaic pattern. The lobster, then, is able to perceive quick movements which break up the mosaic, and yet is relatively insensitive to slow movements. This is turned to advantage by professional bug divers, by making their movements slow and deliberate, rather than jerky and rapid, until their hands are close enough to overcome the lobster's getaway velocity.

Oh yeah, one more vital thing to be sure to tell you about lobsters. The next time you have an overabundance of lobsters for dinner, be sure to invite this writer! Hey Wayne and Mike, wait up for me!

## Lifeguard

continued from page 5

drownings." In reference to the placing of signs on the beach, Dorinson says, "people should know if they are warned...assuming that we have to give notice at all, which there is no law that says we do."

Dorinson continued to deny the issue of public responsibility, saying "How one should feel is entirely different from how one is legally obligated to act."

"Face it," he said, "this country doesn't have a legal system based on moral values."

## ucsd science bulletin board

## Biology

- March 8  
4:00 p.m. Dr. Milton Saier: *Allosteric Regulation of the Lactose Permease in E. coli: Biochemical Proof of the Mechanism.*  
1103 Biology Building
- March 10  
4:00 p.m. Dr. Jack Obijeski: *Cloning Studies and Replication Studies of Bunyavirus Genes.*  
2100 Basic Science Building
- March 11  
4:00 p.m. Dr. Nick Hastie: *Developmental and Tissue-specific Expression of Genes in the Mouse.*  
2105 Bonner Hall

## Chemistry

- March 8  
4:00 p.m. Dr. Mark Midland: *Asymmetric Synthesis.*  
2622 Undergraduate Science Building
- March 10  
4:00 p.m. Dr. Wilhelm Guschlbauer: *Experimental Approaches to Understanding the Differences Between DNA and RNA.*  
2102 Urey Hall
- March 11  
4:00 p.m. Dr. Neil Boag: *Reactions of Alkynes with Platinum and Ruthenium.*  
2102 Urey Hall
- March 12  
12:00 noon Dr. Eugene Garfiend: *Can We Identify and Evaluate Significant Scientific and Research Productivity?*  
2100 Basic Science Building

## Physics

- March 10  
4:00 p.m. Dr. Keith A. Brueckner: *Status of Inertial Confinement Fusion.*  
1402 Humanities Library
- March 11  
2:30 p.m. Dr. Fred Driscoll: *Length-Dependent Containment of a Pure Electron Plasma.*  
3405 Mayer Hall

**Che Cafe**



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**International Women's Week**

**Monday, March 8**  
Women in Science Reception at the International Center, 3-6 pm. Dinner & live music at the Che Cafe with Ann Delamo, progressive lyrics & guitar, from 5-7 pm.

**Tuesday, March 9**  
Open House at the Women's Center, 10-2. Come meet the staff, have some cookies. Dinner & live music at the Che Cafe with Nikola Thompson, pianist, from 5-7 pm.

**Wednesday, March 10**  
Celebration of Women's Poetry: Featured Poet: Sherley Ann Williams. Others: Xelina, Gina Valdes, Carlota, from 7-9pm. Dinner & live music at the Che Cafe with Christa Gostenhofer, pianist, from 5-7 pm.

**Thursday, March 11**  
Women on Campus at the International Center, 4:30-6:30. Dinner & live music at the Che Cafe with Annie Levin, contemp. folk, from 5-7 pm.

**Friday, March 12**  
Women's Center Celebration Dance at the Che Cafe, 8-12. Free Beer & alternative refreshments. \$3/Door, \$2/Box Office. Live band, MASA, Latin Salsa.

**Saturday, March 13**  
Che Cafe's Dance Concert featuring TROWSERS (local Reggae band). FREE! 8:30-12:00 at UCSD's Student Center Hump.

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An evening with  
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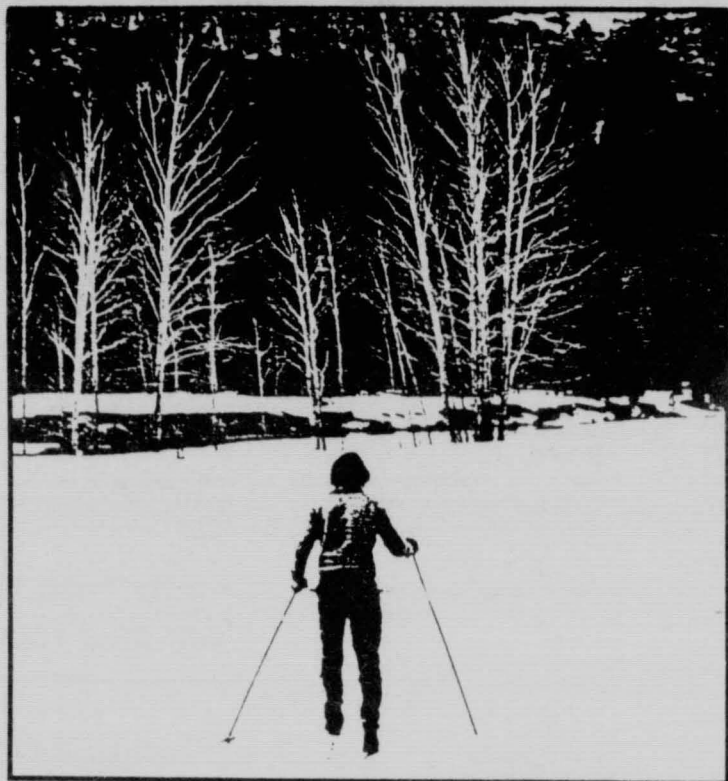




SPRING BREAK

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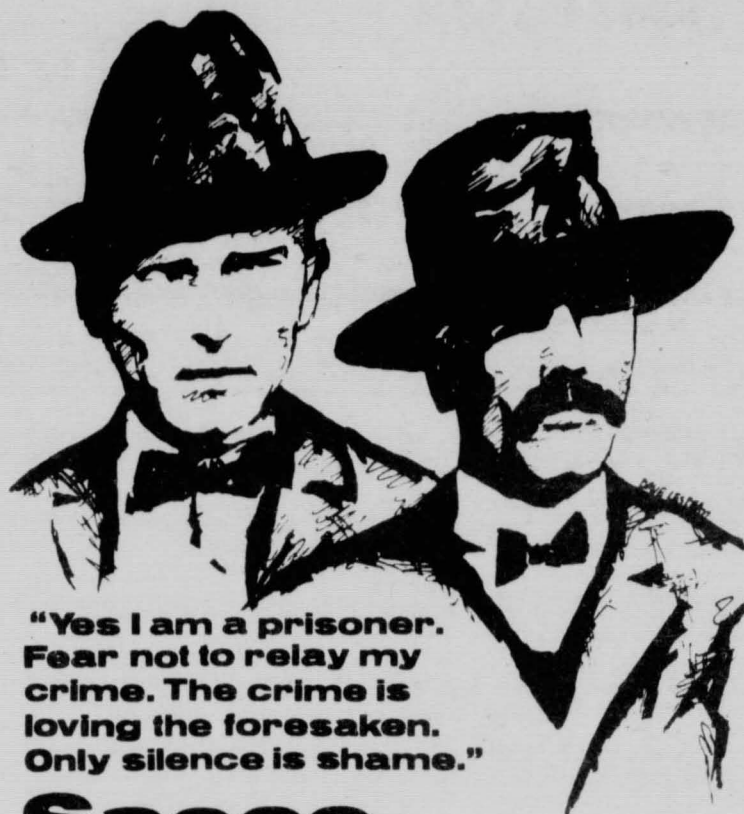
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Fear not to relay my  
crime. The crime is  
loving the forsaken.  
Only silence is shame."

## Sacco- Vanzetti

Nicola Sacco (left) and Bartolomeo Vanzetti (right) quoted above. Anarchists and immigrants, murdered by the State August 23, 1927.

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