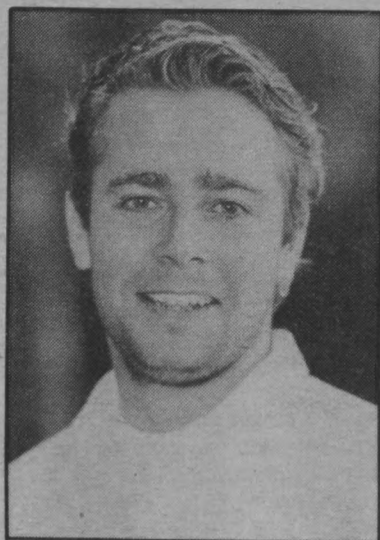


Acton and Robinson to Face in A.S. Runoff



Jaime Acton

Fuller - Pozzi, Jimenez - Garrett in Second Vote

By Doug Arellanes
Campus Editor

Marked by very close voting, the executive positions of Associated Students will undergo three separate runoffs. The runoff will occur Tuesday and Wednesday next week.

For A.S. president, Jaime Acton and Curtis Robinson will enter the runoff.

With a 23 percent undergraduate turnout, Acton received 945 votes, while Robinson received 851 votes.

"I think we're going to pull the whole slate in," Acton said. "At this point, people really need to look at the policies and not the personalities."

The Daily Nexus was unable to

reach Robinson for comment after the release of election results.

Presidential candidate Michael Coyle finished third with 561 votes, Marc Evans received 423 votes and Greg Brubaker garnered 338 votes, which placed him fifth.

Glenn Fuller will face Emilio Pozzi in a runoff for internal vice president. Fuller received 1151 votes, while Pozzi received 1018. Vincent Holmes finished third with 734 votes.

Fuller did not wish to comment on the results, but Pozzi said he was glad to see the Democratic Student Union sweep Legislative Council.

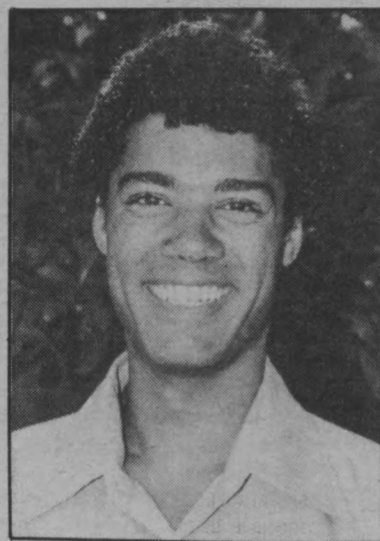
"We've proven to be a pretty united group," Pozzi said. "I feel that I've been working hard for this and I can definitely say that

I'm happy. I'm looking forward to having a more personal challenge for the runoff," he said.

Carla Jimenez will face Omar Garrett in a runoff for external vice president after an extremely close ballot. Jimenez earned 934 votes, while Garrett received 926 votes. Write-in candidate Christina Porter finished third with 416 votes and Patrick Stewart received 412 votes.

"I feel tired. I'm really surprised," Jimenez said. "I didn't think there were going to be this many runoffs. I thought what was going to happen would happen," she said. "I was ready for what would happen either way."

"I know a lot of votes me and Patrick split. I feel good about our (See RESULTS, p.5)



Curtis Robinson

sports

UCSB Volleyball's 'Klubber' Kosty

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opinion

Predicting the Impact of Human Activity on the Environment

page 7

inside

No Election Results Enclosed

page 1A

Daily Nexus

Vol. 67, No. 120

Thursday, April 23, 1987

University of California, Santa Barbara

Two Sections, 20 Pages

Earth Day Speakers Place Emphasis on Earth Preservation

By Tonya Graham
News Editor

People everywhere must commit themselves to preserving the Earth and to caring for each other if civilization is to survive, environmentalists David Brower and Dave Foreman told students during yesterday's Earth Day celebration.

Brower, former executive director of the Sierra Club and founder of Friends of the Earth, spoke to more than 250 students at noon in Storke Plaza. Foreman appeared at 7:30 p.m. on the UCen lawn, when approximately 100 people gathered under the stars to hear what the co-founder of Earth First! had to say.

Both Brower and Foreman

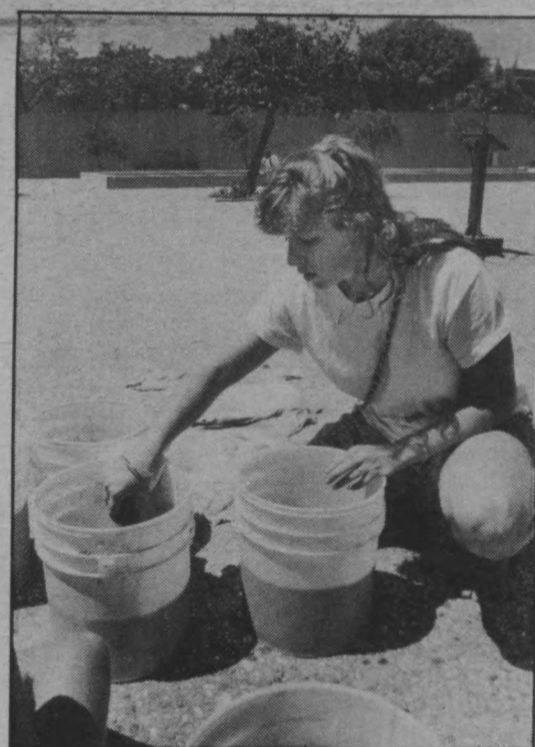
agreed with the need to act immediately to halt the destruction of the environment. "We're already fighting World War III and we're winning," Brower said. "It's a war against the Earth. It leads to war against other countries ... and will end in nuclear war if things don't change soon."

"Life has been on this planet for three-and-a-half billion years and during that time there has not been a biological crisis like today at any time," Foreman contended. "Within 20 years, up to one-third of the species on this Earth may be extinct. In 20 years, the only mammals who will be here will be here because we choose for them to be here.... We are destroying the life on this planet."

In the 1800s, Henry David (See EARTH, p.3)



Marc McGinnes, left, walks tall during the Earth Day festivities with the help of a pair of stilts, capturing a unique overview of the day's events. Wendy Fuchs, right, uses the opportunity to create some original tie-dye designs.



TOM REZJEK/Nexus

Meeting Focuses on Halting Locker Voyeurs

By Randolph Klein
Staff Writer

An alleged April 15 incident of voyeurism in the Old Gym has resulted in an order for emergency phones to be placed outside the gym and an increase in security around the area.

The incident was reported by Catherine Barber and Anne Garner in a letter printed in the April 22 Daily Nexus. "At about 7:30 p.m., we were graced by the presence of a voyeur in the locker room," the letter stated.

The man was chased, but "unfortunately, he got away ... and the police were of no help," the women said.

The letter also outlined a list of safety measures that Barber and Garner wanted implemented for safety around the locker

room, including emergency telephones, an on-duty lifeguard in the equipment issue room after 5 p.m. and the maintenance of a fire exit "as an exit only."

Assistant Vice Chancellor for Student and Community Affairs Harleen McAda met

"It's a dark entryway and a lot of guys hang out around there ... trying to look through the windows."

—Christine Hilken

with Barber, Garner and Associated Students Legislative Council member Christine Hilken yesterday to discuss the incident. McAda agreed to install special phones, which need only be knocked off the hook for the police to be alerted, on the north and south walls of the women's locker room.

Since no more phones of that specific type remain on campus, they have to be ordered

and will not be installed for three to four weeks, McAda said. In the interim, the emergency exit will be locked to the outside and an extra lifeguard will be posted from 5 p.m. to 7:30 p.m. on weekdays, McAda said. The Old Gym will also be included on the

evening route of the equipment room supervisors, she added.

According to McAda, the voyeurism incident is similar to one that took place Fall Quarter in Robertson Gym. Two emergency phones were installed in the women's locker room at the gym within one week, McAda explained.

"During the discussions about Rob Gym,

people missed the opportunity to suggest other places to put (the phones)," she said.

According to Physical Activities and Recreation Director Jon Spaventa, patrols by staff members "put us in a peculiar position," because they are "not in the business of policing."

Spaventa recalled an incident in which he apprehended a voyeur who later turned out to be a child molester wanted by the police. Despite being uncomfortable with using staff members to patrol the area, he said that "steps are being taken. The last thing we want is for people to be frightened."

At the meeting, Hilken also suggested that the university install additional lighting at the outside entrance of the Old Gym. "It's a dark entryway and a lot of guys hang out around there ... trying to look through the windows," she said.

(See PHONES, p.3)

Headliners

World

Bus Station Explosion Leaves Up to 150 Dead in Sri Lanka

COLOMBO, Sri Lanka — A car bomb exploded at Colombo's main bus terminal at rush hour Tuesday, killing up to 150 people and raising the death toll from terrorist attacks to nearly 300 in five days, officials reported.

A Health Ministry official said about 200 people were wounded in the afternoon bomb blast and some were in critical condition with burns and other wounds.

Scores of victims were trapped in six buses and burned to death or died of smoke inhalation, police said. Others were crushed in the scramble by thousands of commuters trying to escape the flames and smoke.



The bombing was the third attack since Friday on this lush island just south of India, where Tamil insurgents have waged a four-year war against the majority Sinhalese for an independent nation. Tamils killed at least 142 people in northeastern Sri Lanka Friday and Monday.

Rescue work was hampered by heavy rain, and police commandeered private cars and trucks to take the victims to hospitals.

Most of the victims were Sinhalese.

After the bombing, Sinhalese gangs began roaming the streets, attacking Tamils, and the government imposed a curfew in the capital.

The government issued a statement blaming the car bombing on two Tamil separatist groups, the Liberation Tigers of Tamil Eelam and the Eelam Revolutionary Organization of Students.

In the southern Indian city of Madras, where the Tamil groups have exile headquarters, a spokesman for the Eelam Revolutionary Organization of Students denied that its members were involved.

Peaceful, Six-hour Rebellion Held by 250 Argentine Troops

BUENOS AIRES, Argentina — About 250 soldiers rebelled Tuesday in the northern city of Salta and hundreds of civilians gathered outside the base to protest the uprising, officials reported.

It was the third army revolt in a week. The restive soldiers oppose the army's leadership and demand amnesty for officers accused of torture and killing during the "dirty war" against leftists conducted by military governments in the late 1970s.

The government said Tuesday that 19 top officers had quit or been fired since revolts at the two other army camps, but President Raul Alfonsin denied the purge was part of a deal with the rebels.

Gov. Roberto Romero of Salta province told the Rivadavia radio network 250 officers and men of engineer company C5 were "in rebellion" over the amnesty issue and the civilian president's choice of Gen. Jose Dante Caridi as new army commander.

He said about 600 people were outside the base gates, but no incidents had been reported. Romero said rebel officers remained in their quarters and "I'm confident this will all be solved without repercussions."

Japanese Cannot Understand Why U.S. Imposed Sanctions

TOKYO — A new paperback book titled "Japan in Danger" has hit the stands and attempts to explain to Japanese the trade dispute with the United States.

The theme of the book, by Hideo Itomawa, echoes Japanese fears that their nation is being made to pay the price for America's economic woes.

The book has already sold about 140,000 copies since it was published on April 10, according to its publisher, Kodansha Ltd. Kodansha's advertisement says the book is a warning that the world is moving from "an era of free trade to an era of catastrophe for Japan."

Hishio Hidekazui, a spokesman for the publisher, says, "Against the current backdrop of trade friction, the book is bound to make the nation's bestseller list."

Nation

Federal Agents Seize LaRouche Headquarters in Surprise Raid

LEESBURG, Va. — Federal agents, acting under orders of a federal bankruptcy judge, seized the headquarters of political extremist Lyndon H. LaRouche on Tuesday and took control of three companies tied to him.

U.S. marshals and FBI agents also seized control of many of the LaRouche companies' offices around the country, including those in Houston; Quincy, Mass.; Washington, D.C., and Palisades Park, N.J., U.S. Attorney Henry Hudson said at a news conference.



A rare maneuver under federal involuntary bankruptcy laws, the move was aimed at collecting part of the more than \$21 million in contempt-of-court fines levied against LaRouche-related groups by a federal judge in Boston.

Questioned about whether action would be taken against LaRouche himself, Hudson replied: "I'm going to decline to comment on that at this time." LaRouche left the country last December, and investigators say they believe he is in West Germany.

The government filed petitions seeking to place the companies in involuntary bankruptcy under Chapter 7 of the federal bankruptcy code. The companies publish and distribute material for the LaRouche organization and conduct fund-raising activities.

A U.S. bankruptcy judge in Alexandria, Va., signed an order under seal after a closed hearing on Monday that directed the seizure of assets and property.

U.S. Approves Computer Sale to Iranians, Despite Objection

WASHINGTON — President Reagan's National Security Council has approved the sale of a \$900,000 computer system to Iran, industry and administration officials said Tuesday.

The approval represents the first major U.S. transaction involving Iran since disclosures in late 1986 that the administration had been secretly selling arms to Iran.

Analysts suggested the move underscored a growing sensitivity on the part of the Reagan administration to problems faced by U.S. manufacturers of high-technology goods as they seek to compete in overseas markets.

The NSC had been asked to referee a high-level dispute within the administration over the sale.

Administration officials said the council ruled late last week in favor of Commerce Secretary Malcolm Baldrige and Secretary of State George P. Shultz — and against Defense Secretary Caspar Weinberger.

Approval of the sale of the computers, described as relatively unsophisticated devices to be used in an electric power grid, had been opposed by Weinberger on grounds the United States should not be providing any aid to the Iranian regime.

Reagan Optimistic About New European Missile Agreement

WASHINGTON — President Reagan said Tuesday the Soviet Union is giving "every appearance of wanting to move ahead" on an agreement eliminating medium-range missiles in Europe, but congressional leaders urged the administration to proceed cautiously.

Senate Majority Leader Robert Byrd, D-W.Va., warned that Soviet Leader Mikhail Gorbachev's latest proposal "is cosmetically attractive but, at bottom works against the cohesion and steadfastness of the Atlantic alliance."

Republican leaders of the House and Senate were summoned to the White House and joined Reagan in the Cabinet Room, where Secretary of State George P. Shultz talked for nearly an hour about his arms discussions in Moscow last week.

Senate Minority Leader Bob Dole, R-Kan., said it was too early to tell if there was broad-based support for Gorbachev's proposal, which calls for eliminating shorter-range nuclear missiles as well as medium-range weapons in Europe.

State

Animal Activists Oppose Fire Totalling \$3.5 Million at Davis

SAN FRANCISCO — Animal rights activists disavowed an arson fire at a UC Davis veterinary laboratory during a news conference called to denounce the use of animals in psychological research.

"We are disturbed by the lack of concern by the scientific community for animals," said a statement released at the news conference on Tuesday. "Nonetheless, we still believe nonviolence is the appropriate approach. We neither encourage nor condone (violence)."



Los Angeles psychologist Michael Giannelli said the suffering of animals is "much greater than you have been led to believe, and the level of practical benefit is much less."

The statement against violence was issued by Giannelli, New York eye doctor Stephen Kaufman, Santa Clara psychologist Robert Bayard and veterinarian Brandon Reines.

The activists called on the state to deny the University of California at Berkeley \$14 million to build a new animal research facility.

At Davis on Tuesday, investigators said last week's fire resulted from Animal Liberation Front arson.

University officials said insurance inspectors had raised the damage estimate from \$2.5 million to \$3.5 million.

Cheerleader Fighting Hodgkins Disease Receives Transfusion

DUARTE — Doctors tried to save a cancer-stricken cheerleader Tuesday with a transfusion of three-fourths of a quart of marrow extracted from her brother's hip bone during a delicate, painful process.

John Pida, 22, underwent surgery Tuesday morning. His bone marrow was fed like a blood transfusion into the veins of his 19-year-old sister, Valeria Pida of the University of Nevada, Las Vegas, Dr. Stephen Forman said.

The marrow feeding, which lasted about 90 minutes, took place in the girl's isolation room at City of Hope Hospital, 20 miles east of Los Angeles.

It was hoped the transfusion would reverse the spread of Hodgkins disease, a form of cancer that has threatened her life for six years, Forman said.

If a patient survives two years after the transplant, there is a good chance for a full and complete life, the doctor said, refusing to discuss Valerie's case directly. "The first two years are critical," he said.

Earlier, Forman said the transplant gives Miss Pida a 20 to 30 percent chance of survival. There was no chance of survival without it because chemotherapy wasn't working.

"The doctor said he wouldn't say anything until she was discharged in approximately five weeks," hospital spokeswoman Lucie Lowery said when asked if daily condition updates would be available.

Valerie entered City of Hope two weeks ago and has undergone extensive chemotherapy and radiation treatment.

Weather

Light breezes today with the usual sunshine. Highs in the 70s, lows in the 40s.

April	TIDES	
	Hightide	Lowtide
23	7:01 a.m. 4.6	
23	8:11 p.m. 4.7	1:40 p.m. -0.4
24	7:56 a.m. 4.7	2:07 a.m. 0.9
24	8:37 p.m. 5.1	2:15 p.m. -1.0

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Rally Pushes Awareness of Sexual Violence

By Todd Davidson
Reporter

The Santa Barbara Rape Crisis Center and the UCSB Associated Students Commission on the Status of Women are sponsoring two separate annual "Take Back the Night" marches in the near future to raise public awareness of sexual violence against women.

On April 30, in De La Guerra Plaza, men and women from the area will march to symbolically reclaim the right for women to walk free through the streets at night, in the seventh annual Santa Barbara event.

UCSB's third annual version of the rally will begin May 21 in Storke Plaza.

The Santa Barbara march begins at a 7 p.m. rally with a speech by special guest Gloria

Allred, noted feminist and president of the Women's Equal Rights Legal Defense and Education Fund.

The marchers, who will be carrying candles, banners and signs, will proceed from De La Guerra Plaza down lower State Street, where they hope to attract attention to their cause.

Marsha Bailey of the S.B. Rape Crisis Center believes the event is positive not only for education of the public, but specifically for easing the fears of women who walk at night. "It offers women an opportunity for empowerment. We can exercise, symbolically, the freedom to walk freely and safely at night. Fear keeps women from taking night class, from getting jobs, from going out. It's a chance for women to show their concern," she said.

Isla Vista's version of "Take

Back the Night," which will be held three weeks after the Santa Barbara event, will begin with a rally in Storke Plaza. Women's Center coordinator Cheri Gurse will moderate the rally, which will be followed by a march through the town and a dance with live music back at Storke Plaza.

Gurse, who also coordinates the university Police Department's Rape Prevention Education Program, sees the event as a chance for concerned citizens to come together.

"It provides women and men with a time and a place to see how many other people are supportive and care about the same concerns," she said. "It gives a time and a place to celebrate women's strength — that we aren't going to be victims forever."

Santa Barbara Police Department crime prevention Officer

Rick Abney believes women are as safe as they make themselves. "Generally, women are safe if they use common sense," Abney said. "Anyone in a metropolitan area at night could be victimized in a dark alley, but anyone can be safe if they use common sense. We're safer statewide than other jurisdictions our size, but that doesn't mean women are always safe."

UCSB Police Lt. Bob Hart said safety is never guaranteed. "Women are safer in this community than in most, but there's no guarantee of safety in almost any place."

Gurse argued it takes more than common sense to be out of danger. "Women are as safe as they are aware, alert and assertive," she said. "The more aware and alert of surroundings I am and the more assertive I am about taking care of

myself, the safer I am."

"Women need to be aware that it can happen to them and be ready to defend, confront a harasser, to call for help or to fight," Gurse added. "That's the reality. I'm not safe in I.V. or on campus if there's a man who is intent upon attacking me. We can make women safer, but we cannot guarantee safety."

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Unocal Drilling Platform Begins Operation with Minimal Conflict

By Tom Burkett
Reporter

Described by one county official as an "ideal project," Unocal started operation of its new \$135 million offshore oil-drilling platform and processing facility in north Santa Barbara County last week.

Situated 4.5 miles west of Point Pedernales outside state waters, Platform Irene will pump up to 20,000 barrels of oil a day to a new processing plant in Santa Maria and a dehydration plant north of Lompoc, according to Darwin Sainz, senior engineer for Unocal Joint Ventures.

Unocal officials worked with county administrators and communities affected by the platform to avoid the type of conflicts and public protests that have plagued the Exxon Company's offshore oil development plans, Sainz said. The company was able to use currently existing oil facilities for the project and needed to construct only one new plant, which they located in Santa Maria. This could account for lack of opposition to the project, he suggested.

"We took it to the public and had a forum describing the project," Sainz explained. "We let the citizens suggest which spot, from the land we own, to build the processing plant on, and we ended up using their choice."

The operation's permit for Platform Irene passed quickly through the County Board of Supervisors with minimal opposition, Supervisor Toru Miyoshi said. Unocal acknowledged a need for air quality control and other environmental factors and abided by the Board of Supervisors' specifications.

"The key agreement was agreeing to our air quality specifications. This contradicts the Exxon situation because they would only agree to follow the recommendations of their own staff, not ours," Miyoshi said.

Irene is the sixth Unocal platform built off the Santa Barbara County coast and one of the few oil development facilities to go unopposed. The project, according to Miyoshi, will bring tax incentives and additional employment to the north county.

"For us, it was an ideal project," he said. "As far as public impact, it's off the coast at Vandenburg (Air Force base), which is inaccessible to the public, so there's no visual impact. For environmental impact, the air quality meets our standards and it uses already existing oil facilities."

Although officials consider Irene the ideal offshore oil project, some offshore development critics view even the "ideal" project as too much. They contend that, although one project does not appear detrimental, all individual developments combined can devastate the environment.

"They look at only a tiny bit, not the whole picture, which would show eventual environmental degradation," Associated Students Representative-at-large Marc Evans said. "If you go back 100 years, the people would see all these platforms and say 'this is awful'. One project may not look bad, but when they add up, the situation shows how the environment has been harmed."

"The problem is that people have limited life spans and limited memories, and forget what the environment was like before the development," he added.

The lack of organized opposition to Platform Irene cannot be attributed to complete public acceptance. Some anti-oil-development organizations were unaware of the project, or had focused their attention on what they considered more pertinent issues.

"They did it so quietly and so quickly that we were unaware of it," CalPIRG local board chair Scott Gordon said. "We have been focusing our attention in protesting against Platform Heron, since it is close to and will have a prominent effect on UCSB and Isla Vista," he explained.

"Since it (Irene) is outside of state waters, that's probably why we received no information about it. It doesn't have to go through the state lands commission or the state coastal commission," Gordon added.

Unocal has no current plans to extend its offshore development, but expansion is possible, according to Sainz. "After time passes we'll see if it's feasible and possible to drill in other areas. Right now, Irene can drill A-number-1 wells," he said.

The only form of government currently working in a "sustaining manner," Brower said, "is that found in primitive societies. Of the 4.5 billion years this planet has been in existence, human life has occupied only a minute fraction," he emphasized.

"For 2 million years, humans didn't do much damage to the Earth," but rather lived as hunters and gatherers, using only those resources they needed for survival, he said. However, with the onset of the industrial revolution and the production of new sources

of energy, he believes all this changed. "At that time, we began to fashion things that could really rip Mother Earth apart.... Now we're doing that to an even greater extent."

While children today may inherit advances in medicine, transportation and communication, Brower believes he inherited more "freedom" than his children and his grandchildren can ever know. "I inherited a much bigger bay.... You could see through the air ... and there was no need for

(See EARTH, p.5)

EARTH

(Continued from front page)

Thoreau asked, "What's the use of a house if you haven't got a tolerable planet to put it on?" Brower said. This concern still remains today, he emphasized. If California's population continues to grow, its density will someday equal that of Japan. "I'm not sure if we should allow the developers to determine the future of the planet," he said.

PHONES

(Continued from front page)

Barber and Garner were critical of how the police behaved in their situation. According to Barber, the police told her to go through the men's locker room to see if the voyeur was hiding there. "There were men still dressing in there and I felt very uncomfortable," she said.

Barber also said the police did not record their description of the voyeur. The police also advised them that if such an incident occurred again, they should hide and have one stay behind to follow the perpetrator while the other should go outside to call the police, she said. Barber could not picture herself

"running outside in my birthday suit to call the police."

According to Lt. Robert Hart of the UCSB Police Department, a description of the suspect is entered on the log of the day in question. He said the advice given to the women was "probably not proper," but he wanted a chance to talk with both the officers and the women before making a final decision. He explained that the night of the incident was the night off for the woman officer who regularly patrols the locker room five days a week.

Barber, Garner and Hilken said that they were pleased with the outcome of the meeting. "We're satisfied with the results so far as words go ... as long as we see (the safety measures) installed," Hilken said.

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Walkers to Raise Money for March of Dimes

By Sheryl Nelson
Assistant County Editor

Santa Barbara residents are digging out their old sneakers in preparation for the March of Dimes 22nd annual WalkAmerica walk-a-thon this Saturday.

Participants in the 10-mile trek will leave Leadbetter Beach at 8 a.m. and finish in the same spot, walking to raise money for the fight against birth defects, March of Dimes publicity coordinator Jennie Fox said.

Walkers receive pledges from sponsors, collecting a certain sum of money for every mile completed. "Many cities all over the nation will be walking... Community effort reaches more people, so more can get involved in the cause," Fox said.

UCSB students annually participate in the event and their involvement has increased this year, Fox said. "We're having the best UCSB turnout. So far, 20 students will walk," because "they are realizing there is more to life than school and partying," she said.

The Associated Students Community Affairs Board and the religious studies department are two university groups participating in the event, Santa Barbara March of Dimes director Michael Aquino said. "We've never had this (such a strong university turnout) before and they (the university participants) are expected to raise a lot of money."

"This (walk) is the March of Dimes' biggest fundraiser," Fox said. "Last year, we raised \$30,000 in Santa Barbara," and this year organizers expect between 700 and 800 people to walk in the event, bringing in approximately \$70,000 to \$80,000, she forecasted.

Money raised during the walk, through private donations and other fund-raisers, will be used in the community for research and prevention of birth defects, Fox explained. "We want to stop (the defects) before they start."

One of every 12 American babies is born with a serious birth defect, according to Fox. However, she is optimistic that the money raised will help research cut this statistic in half.

Walkers will not only contribute to society, but can win prizes at the same time, Fox said. A variety of awards,

ranging from T-shirts to video cassette recorders, is available, dependent upon the amount of money raised.

Community leaders are enthusiastic about the walk and many plan to join in the procession. Second District Supervisor Tom Rogers has participated in the walk for the past four years, because "it's a good cause ... and good exercise," he said. "I enjoy meeting people. Everyone has something in common."

In addition, "by having an elected official (participating), it helps get more people interested," he said.

Students registered for the 10-mile walk expressed their concern about birth defects and their support for the March of Dimes' research. "I'm involved because it's a fantastic cause," CAB Co-chair Curtis Robinson said. "Students need to be aware of the diseases in society. This will be a statement of the problem and shows student awareness."

CAB office coordinator Claudia Alphin said she was "walking because it's a great program. The research that is done is extremely important. The more money that is (raised), the quicker the problem will be solved."

GLSU Offers UCSB Students Many Services

By Matthew Lord
Reporter

Every year the Gay and Lesbian Student Union sponsors Gay and Lesbian Jeans Day, an event that never ceases to spark controversy.

"It's the best way (for students) to find out GLSU exists," GLSU Co-director Jamey Frank said.

Long after the hoopla dies down, however, the GLSU still provides services to gay and non-gay communities.

Although GLSU's main purpose is to coordinate social functions for its members, the group also offers educational workshops and peer counseling for all UCSB students.

"We're here for anyone, not just gays and lesbians," said Roger, GLSU's other co-director, who wanted to use his first name only.

A large number of those who seek peer counseling are "straight people with a

problem," such as dealing with a roommate who is gay, he said.

Some of the services the organization provides with its \$2,200 budget includes information on AIDS, roommate referrals, weekly meetings and social nights.

Meetings are held Tuesday and about 30 to 50 students usually attend.

fers Lesbian Rap Group discussions Monday nights and Gay and Lesbian Rap/Support Group talks Thursday nights.

Strict confidentiality is stressed at all meetings, Frank said, to make people feel they have a "safe, comfortable place to go without worry about their reputation being tarnished."

Close to 40 speakers lectured on topics such as gay rights, AIDS, lesbian and gay press, the role of gay elected officials, racism and stress.

Although the conference was "largely political," GLSU is basically an apolitical organization because it is funded by the Associated Students, Frank said.

The group has recently spent an increasing amount of time dealing with the AIDS issue. The escalation of the epidemic has greatly affected GLSU, Frank said. AIDS education and safe sex fliers are handed out at meetings, and books on the subject are available at the GLSU office.

"It has caused a lot more monogamy," Frank said. "People are a lot more careful, as they should be." Those who do not take precautions, Frank warned, are "just kidding themselves."

To increase knowledge about the epidemic, the UCSB AIDS Task Force is sponsoring "AIDS Awareness Week", to take place May 4-8.

"We're here for anyone, not just gays and lesbians."

—Roger

Movies, pizza nights, ice cream socials, and Trivial Pursuit are common activities at these meetings, and guest speakers are sometimes brought in too, Roger said. The organization also sponsors occasional trips to off-campus spots like Disneyland.

Besides the weekly meetings, GLSU of-

The group's biggest event of the year was the Fifth Annual Western States Lesbian and Gay Students United Conference, which they hosted at UCSB in mid-February. More than 150 students representing 20 college campuses from Arizona, Nevada and all over California attended the four-day event.

UCSB Bookstore's

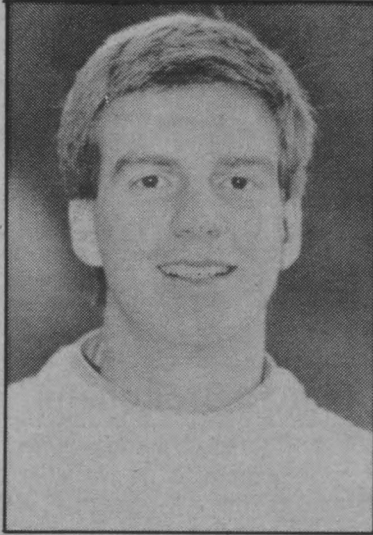
MOONLIGHT
MADNESS

★ Thurs. April 23rd, 7pm - 10pm

Wear pajamas, get a ★ 20% discount

Come as you are, get a ★ 10% discount
discounts exclude textbooks & computers

PRIZE DRAWINGS
\$50, \$25, \$10 (2)
GIFT CERTIFICATES



Emilio Pozzi



Glenn Fuller

RESULTS

(Continued from front page)

platform," Garrett said. "It's almost incredible. She (Jimenez) was the last person I expected to runoff with."

Races for representative positions on Legislative Council were extremely close. The Democratic Student Union fared very strongly, with every candidate on the slate being elected.

Representatives at large, in order of votes received, were: Hurshel Williams (1,177), Dan Zumwinkle (1,045), Markeysha Lawrence (978), Michael Henderson (890), Dave Karoly (883).

Off-campus representatives were: Dana Rucker (1,075), Monica Pool (1,005), Todd Gooch (968), Dan Birdsall (935), Robert Walton (897), Elsie Velasco (887), Julie Butchko (866), Julie Brown (849), Darcy Linder (781), Mike Lupro (768).

On-campus representatives were: Carol Zaro (255), Dave Lehr (254), Kara Evers (237).

Ballot measures did as follows:
The restructuring proposal

received 1,133 yes votes and 910 no votes, falling short of the needed two-thirds majority.

A proposal to fund a \$2,500 study of Associated Students incorporation also did not tally a two-thirds majority. 1,442 voted no on the proposal, while 759 voted yes.

A.S. fees will stay at current levels, following the failure of every increase measure and the approval of all constitutional lock-in fees. The \$3.00 fee for the UCSB Tutorial Center received 1,423 yes votes and 1,039 no votes. A \$1.20 increase to the A.S. Program Board received 758 yes votes and 1,531 no votes. A \$.34 communications personnel cost-of-living increase received 875 yes votes and 1,490 no votes.

Results of a plebiscite to gather student support for a comprehensive nuclear test ban treaty, as well as votes for professor of the year will be counted by Students and Engineers for Responsible Technology, and Mortar Board, respectively.

EARTH

(Continued from p.3)

concern about nuclear waste," Brower said.

He also cited the decreased numbers of wild animals, fish, trees and other forms of wildlife that children today inherit. "We are stealing from our children's future and I don't know if that's a moral thing to do."

Foreman re-emphasized this thought. "We have no right to take more than our vital needs from this planet," he charged. If humans continue to exploit the wilderness for their own gain, they are practicing biocentrism, he said. "These things (all wildlife) have value in and of themselves."

The time for confrontational action has come, according to Foreman. "We are playing with the very building blocks of life," he shouted. "We should be angry, we should be passionate and we should be emotional.... We need to use the right hemispheres of our brains," he urged. "Let's think with the whole world and let's connect with all life."

"If we can have that vision, if we can have that dream ... then the next step is courage," Foreman continued. "You've got to put your body on the line ... and it takes courage to put your body between the machine and the wilderness."

The exponential population growth rate, as well as the race of the gross national product, both began after World War II, Brower said. "There is probably a better race to run, a better purpose ... and that purpose is to make a better reality."

"The miracle of life," Brower continued, is something each person possesses and something that has continued for millions of years. "Life started in the wilderness by the trial and error system. Unless we get too proud ... everything living can make the same claim," he said. The more

than 10 million species currently in existence deserve to live as much as humans do, he urged.

Brower emphasized the need to care for both people and the environment. "There are two important things we need to do," he suggested. "We need to know more about the carrying capacity of the earth ... and we need to improve the caring capacity of people for each other."

Both Brower and Foreman received standing ovations, and Foreman had his late-night audience howling like wolves to show their unity with the environment following his presentation.

A host of other speakers also made an appearance for Earth Day. Environmental studies Professor Rod Nash discussed the alleged misperception many people have of the conservation movement. "There is the idea that somehow, people concerned with the earth are radicals," he said.

"I take a little different look. If you look at the history of American liberation ... there is a progression in this country on the meaning of liberation," said Nash, citing the movements of women, Afro-Americans, Native Americans, gays and lesbians as examples of extended liberties.

He believes it is time for "the extension of natural rights to the rights of nature." This, according to Nash, should not be considered a radical point of view, but rather a conservative point of view, because it is concerned with "life, liberty and the pursuit of happiness for other than human beings.... We need to give rights to the earth."

Capt. Paul Watson of the Sea Shepherds, which he described as a "terra-ristic" organization, made an unexpected appearance following Foreman's evening presentation. Watson and other members of the Sea Shepherds have been responsible for the sinking of seven whaling ships

since 1979, in their effort to halt the whaling industry.

Though many environmental groups write off the Sea Shepherd's methods as too radical, and instead turn to promoting education and awareness of relevant issues, Watson contends that confrontational actions are needed if any results are to be seen. "By the time we get around to educating the masses, there won't be any animals left to protect," he charged.

He also refuted allegations that the group uses violent methods. Instead, he called its actions "aggressive non-violence," designed to prevent violence to living creatures.

According to Watson, "Japan is the number-one enemy as far as wildlife is concerned," since most of the whaling industry is perpetuated by Japanese fleets in order to obtain whale meat. However, the Sea Shepherds are planning to take action later this year against Japanese whaling fleets, he said. "We want to make an international issue out of this."

Students expressed mixed reactions to the Earth Day presentations. "I believe in what he (Brower) said about protecting the environment, but I also have problems with some of what he said," senior Robert Margolis said.

The quality of life has improved considerably since the industrial revolution, Margolis said, so the "problem is how to keep some shape of the good quality of life while protecting the environment."

Members of the campus group Students Investigating the Validity of Animal Research also participated in the day's activities. "Earth Day is a time to become aware of Man's atrocities to Mother Earth and the exploitation of the Earth in general, and we think that includes the Earth and other species," said SIVAR member Mike Weise, who also serves on A.S. Leg Council.

This space contributed
as a public service.

**"YES, THERE IS
LIFE AFTER
BREAST CANCER.
AND THAT'S THE
WHOLE POINT."**

—Ann Jillian

A lot of women are so afraid of breast cancer they don't want to hear about it.

And that's what frightens me. Because those women won't practice breast self-examination regularly.

Those women, particularly those over 35, won't ask their doctor about a mammogram.

Yet that's what's required for breast cancer to be detected early. When the cure rate is 90%. And when there's a good chance it won't involve the loss of a breast.

But no matter what it involves, take it from someone who's been through it all.

Life is just too wonderful to give up on. And, as I found out, you don't have to give up on any of it. Not work, not play, not even romance.

Oh, there is one thing, though. You do have to give up being afraid to take care of yourself.

**AMERICAN
CANCER
SOCIETY**

Get a checkup. Life is worth it.

The best lock is the one you use.

Call the Rape Prevention Education Program for more safety tips.
961-3778

**EQUALITY AND THE EQUAL PROTECTION
CLAUSE OF THE FOURTEENTH AMENDMENT**

Lecture by **Walter F. Murphy**
McCormick Professor of Jurisprudence, Princeton University

Thursday, April 23, 1987 — 8:00 p.m.

* * *

Dialogue led by **Professor Murphy**

Friday, April 24, 1987

10:00-12 noon / 1:30-3:30 p.m.

Lecture and Dialogue free and open to the public
at the Hutchins Center, Building 446, UCSB campus
Call 961-2611 for reservations

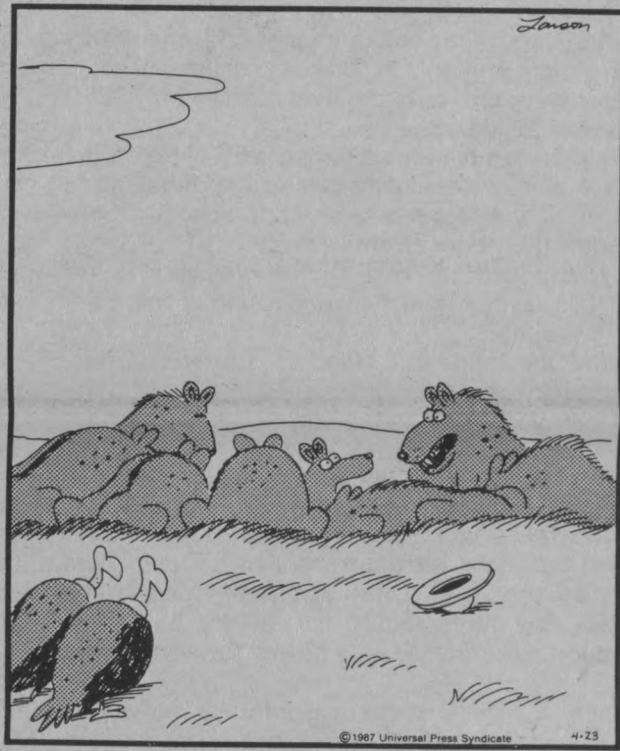
These meetings are part of a bicentennial series on Liberty and Equality sponsored by The Center for the Study of Democratic Institutions and funded, in part, by the NATIONAL ENDOWMENT FOR THE HUMANITIES.

WOODSTOCK'S PIZZA

PRESENTS...

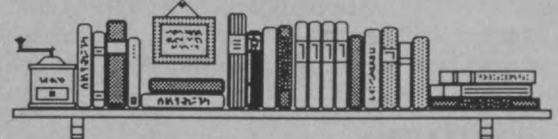
THE FAR SIDE

By GARY LARSON



"You eat what's there, Mitchell. ... I know you're just spreading it around."

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PUBLISHING IN YOUR FIELD: A Symposium for Graduate Students

Saturday, April 25, 1987

Buchanan 1910

8:30 a.m.-12:45 p.m.

Speakers:

Lynne E. Withey, Assistant Director,
University of California Press

David A. Sprecher, Provost
College of Letters & Science

Discussion groups for:

Arts and Humanities

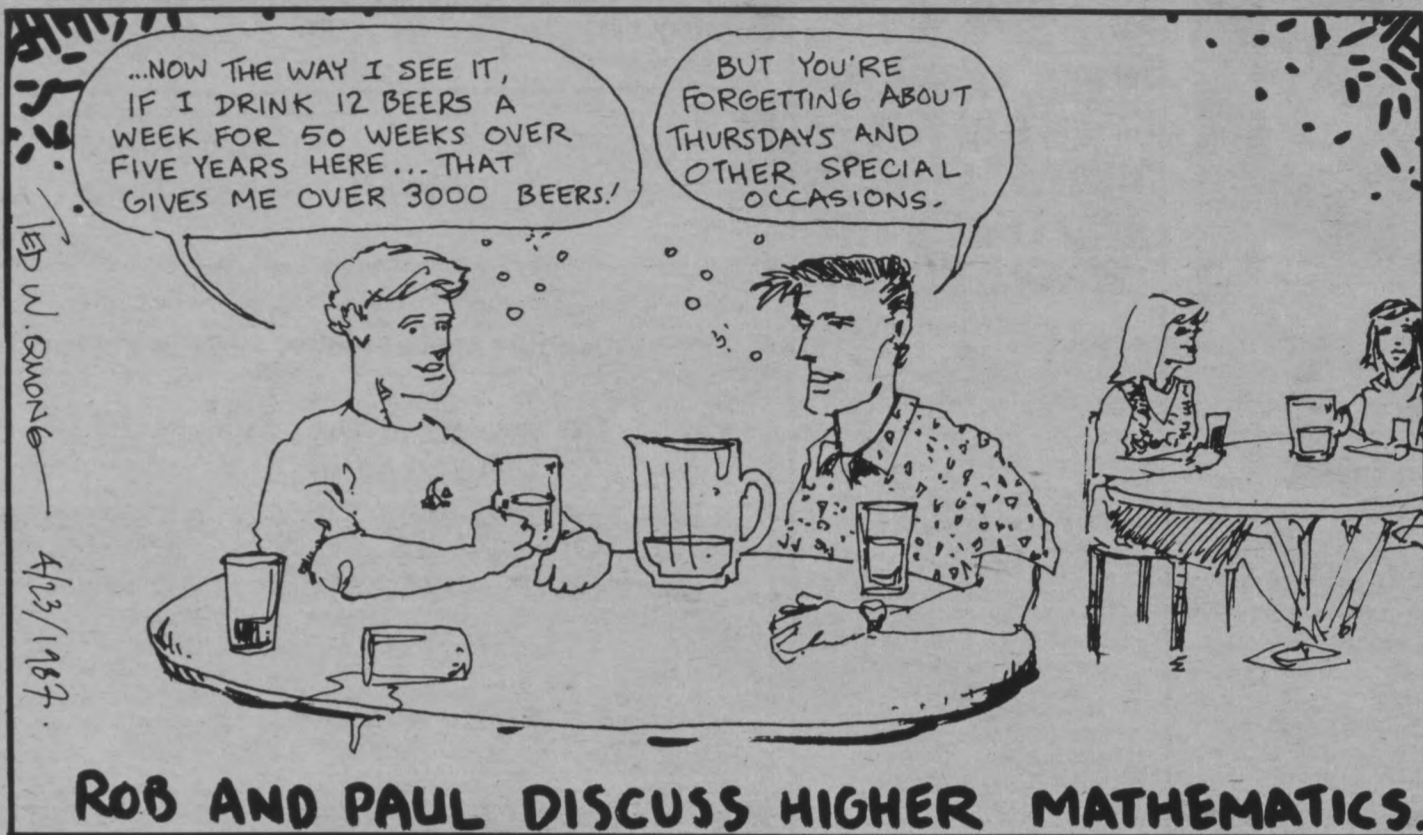
Social Sciences and Education

Physical, Biological, Behavioral
Sciences

Sponsored by: Graduate Division,
Counseling and Career Services,
Graduate Students Association

Register in Graduate Division, Cheadle 3117

Opinion



ROB AND PAUL DISCUSS HIGHER MATHEMATICS.

Preventative Medicine

Editorial

We thought people cared more than this. But, unfortunately, what began as a strong attempt by campus officials and students to combat problems of rape, sexual harassment and other violent crimes at UCSB seems to have sputtered out. Brought to light through an incident of voyeurism at the Old Gym last week, administrators are still taking a reactionary, and therefore weak, approach to these problems, rather than a preventative one. Apparently, two women were in the women's locker room of the Old Gym when a man decided to take advantage of the situation. They spotted the man, but failed to apprehend him, since an emergency phone is not installed in the Old Gym. The nearest one is located at the North Hall bus circle, which is definitely not an alternative in such a situation. The man escaped, and although campus police have a description on file, he is still at large. Furthermore, the women have said the police officers who arrived at the scene were unresponsive. The officers said one woman should hide and accurately identify the intruder, while the other should run to the bus circle phone and report the crime. Handy advice for women in a locker room. Though some may think a voyeur is a joke out of a low-budget film, it is a serious problem that can easily escalate into a rape or sexual assault. Not to mention the degradation and stress for the women during and after the fearful incident. But, what is most disappointing is that there is a group on campus that has taken the preventative role needed. At its first meeting last fall, members of Red Alert brought up

the issue of functioning emergency phones in high-risk areas. They were assured by Dean of Students Leslie Lawson that the administration would take steps to rectify the situation. But, when a voyeur incident occurred in Rob's Gym in February, there was still no phone there. One was installed in the locker room two days later, but it is difficult to understand why the absence of a similar phone in Old Gym was not corrected. Now, it will take four weeks to place a phone in this area. The root of these crimes and others lies in societal attitudes that are difficult to remove, but some solutions are simply reached.

Unfortunately, it's too late to help those women in the Old Gym, or those who suffered in Rob Gym or during Halloween. What can be done is to prevent it from happening again. The Committee for Public Safety, Red Alert and the campus Police should meet and identify other places on campus that are isolated and require emergency phones. The lagoon area, which could use a number of these safety devices, is just one example. The remote parking lots and other outlying areas of the campus should also receive attention. Since the Old Gym incident, police officers have increased their patrols of that area. This is an encouraging sign, yet still a reactionary one. Administrators need to follow through with their commitment and turn their sympathy for the people who have been injured into action that will prevent such things from occurring again. Giving a priority rating to protection before a crime occurs should be taken for granted, given the problems that have plagued this campus, but so far that doesn't appear to have been the case.

How Much Industrial Nations Compound Woes

David Brokensha

The Third World faces a staggering array of environmental problems, with fragile soils being eroded and washed away, tropical forests being cut down at an alarming rate, fauna and flora threatened, pollution widespread in cities and industrial sites, to mention a few. The causes are complex, and include physical, socio-economic and political conditions, as well as a rapidly rising population; part of the problem also lies with us, with the United States and other industrialized societies.

A few examples: each year more forests in Central and South America are cut down, and the area converted to cattle pasture, because of the "hamburger connection" — the huge demand for meat from North American consumers. This, and many other projects, have minimal benefits (a few jobs), and huge costs for poor people in the Third World. Hardwood trees are also cut down in threatened tropical forests, to meet our demand for high quality timber.

Despite protests over many years, France continues with its nuclear tests in the Pacific, regardless of the danger of radioactive contamination to local people.

Multinational pharmaceutical companies are involved in "The Drugging of the Third World," which includes the selling of both unnecessary and also dangerous drugs, some of which are banned in the U.S. because of their toxic side effects. In similar fashion, multinational pesticide manufacturers distribute products that are known to cause illness or even death to farm workers, in Mexico, Sri Lanka and other Third World countries.

Spring Mobilization

Doug Seaton

A coalition of unprecedented breadth, composed of labor, religious, civil rights, anti-apartheid, peace and anti-intervention groups is calling for a mobilization for peace, jobs and justice to take place simultaneously in Washington, D.C. and San Francisco on Saturday, April 25. In San Francisco, participants from throughout the western states, some from as far as Seattle and Hawaii, will gather at 11 a.m. at Justin Herman Plaza at the foot of Market Street near the ferry terminal and the Embarcadero BART station. The march will proceed up Market Street to the Civic Center, where a rally will begin at 1 p.m.

This mobilization, due to be the largest since 1980, demands an end to U.S. intervention in Central America, an end to U.S. support for the apartheid regime of South Africa, a freeze and reversal of the nuclear arms race, and a redirection of our economy away from increasing militarization toward the fulfillment of human needs.

The Spring Mobilization is a strategic opportunity to press these demands. Already, the U.S. government's offensive against popular aspirations both at home and abroad, carried out to a grotesque extreme in the Reagan era, has stalled and is even showing signs of receding. The century-old policy of intervention in Central America and the Caribbean is threatened by the Iran-contra scandal. The divestment movement is whittling away at the economic ties between the U.S. and South African governments. The foreign policy crisis is forcing Reagan, despite his stubborn insistence on U.S. nuclear superiority, to at least come to an agreement with the Soviet Union concerning intermediate-range nuclear weapons in Europe. Congress is finally addressing the issue of homelessness. Family farmers are organizing to keep their land and combat the banks and agribusiness. In actions such as the march on Sacramento last April 6, students are demanding their right to an education. And, after retreating under an overwhelming onslaught of union-busting, labor is fighting back with increasing militancy in such struggles as those of the meat packers of Local P-9 in Austin, Minn., the cannery workers in Watsonville and the United

Doonesbury



BY GARRY TRUDEAU

BLOOM COUNTY



by Berke Breathed

Correction

An announcement today. The panel disc error.

Which Earth Will Be Left to the Children?

The world's population of leopard — and other great cats — has been reduced in part because of the demand for fur coats by women of fashion, especially in Japan and Western Europe. And each year, millions of tropical birds, animals, fish and butterflies perish in the illegal trade to industrialized countries. In all cases, the impoverished peasant, who originally traps or collects the specimen, receives a small fraction of its ultimate value. Rich gourmets also cause the deaths of many creatures, often at high cost to the developing countries. In parts of India the frog population has been drastically reduced, to meet the demand for frogs' legs, and the crop-eating insects have increased correspondingly, as frogs used to keep these in check. Similarly, loggerhead and other turtles are threatened in the Caribbean, because turtle soup is reckoned a delicacy by some. Another example of threats to Third World animals — India recently banned the export of Rhesus monkeys for "science," as thousands of these creatures were being sold to the U.S. each year.

A final example comes from the hordes of European, North American and Japanese tourists who visit the Third World resorts, often causing severe environmental and social disruption — one of the few relict tropical forests on the East African coast was almost eliminated to make a highway to tourist hotels, for example. And saturation of some game parks has seriously affected animal behavior and breeding.

I do not suggest that "we" are the only villains — there are always eager and greedy collaborators in the Third World — but we are certainly part of the problem.

To learn about these, and other environmental problems, participate in the events of this Environmental Awareness Week — or call in to see the faculty or peer advisors at Environmental Studies, in the 3200 block of Phelps Hall (northeast corner). Environmental Studies offers a course on "Third World Environmental: Problems and Prospects" in the fall and winter quarters.

David Brokensha is the chairperson of the Environmental Studies Program.

Viewing the Need for Global Ecology

Dr. Daniel B. Botkin

In the last few decades, Spaceship Earth's intelligent passengers — people — began a series of unprecedented experiments with the biosphere. Magnified by modern technology, the actions of teeming humanity are affecting the environment on a global scale.

The effects include a potential climate-warming caused by carbon dioxide gas building up in the atmosphere, acid rain, prolonged drought and desert expansions, and the increasing rate of species going extinct.

Taken together, these inadvertent "experiments" have created a tremendous need — the need for a large-scale, integrated approach to ecology that would constitute a new science of the biosphere — global ecology.

Until now, ecologists focused on the small scale. Realizing the complexity of the environment, naturalists limited themselves to unraveling the relationship of organisms in an individual pond, or to studying the dynamics of a single species.

This approach, however, will not meet today's challenges. We must learn to predict the cumulative impacts of humanity's wide-ranging activities.

All the tools for doing this are in hand. While nearly all discussion of the relationship between technology and the environment has centered on technology's destructiveness, new and powerful instruments hold the key to understanding, and thus controlling, the side effects of our actions. Satellite remote sensing. Analytic chemistry. Increasingly powerful computers.

As the old saying goes, "It is easy to miss the forest

for the trees." Similarly, it is hard to unravel the complexities of the biosphere when viewing it from Earth's surface. When seen from space, however, the big picture is easier to grasp.

Instruments can now chop light reflected from the mountains, plains and oceans into narrow color bands ranging from violet to infrared. From the varying degrees of intensity of light from each of these bands, surface temperatures of the ocean are measured and currents are mapped, acreages of crops are tabulated, areas of blight or drought are detected, and the amount of lumber in a forest is estimated.

Some of the latest remote sensing techniques, which might be available routinely from aircraft or satellite in the future, should allow us to do a great deal of Earth chemistry — such as the tracking of acid rain — from orbit.

Twenty years ago, simply processing the amount of raw data required to study the biosphere as a whole would have been unthinkable. But the tremendous increase in power and sophistication of computer technology has made it not only thinkable but clearly doable.

While such tools as computers and remote sensing satellites exist, the science and the programs required to apply them to a global ecology do not. Those are what we must now develop.

Last fall the International Council of Scientific Unions endorsed a new international geosphere/biosphere program.

New knowledge and technology have created the need and the wherewithal of a new science designed to address some of our most pressing problems.

Scientific understanding alone will not solve our environmental woes — political will is required as well — but it is essential, if the solutions governments adopt are to be effective. For this reason, global ecology would help all humanity prosper and live in harmony in its natural environment.

Daniel Botkin is professor of biology and environmental studies at UCSB.

Education for Peace, Jobs and Justice

Farmworkers in both the fields at Egg City. These developments should make us hopeful, but they should not make us complacent. We must widen that hairline crack in the teflon. Although the Iran-*contra* dilemma is threatening to delay the next *contra* aid package and the *contra* leadership is disintegrating, our government continues to spend more than a million dollars a day to fund the government of El Salvador in its war against its own people. Our taxes continue to fund the Guatemalan military that is responsible

public from his policy failures, just as he called for the invasion of Grenada after the Marines were bombed in Beirut and the air raid on Libya after the U.S. became a debtor nation.

The struggle against apartheid is also far from over. The South African government, which recently made it a crime to call for the release of political prisoners, still enjoys U.S. support, because our hard-won sanctions policy is riddled with major loopholes. Our government continues to collaborate with the apartheid regime by supplying intelligence information to South African military and security forces, allying itself with South Africa in its war against Angola and refusing to pressure South Africa to end its illegal occupation of Namibia.

Although Reagan has recently become less rigid in arms control negotiations with the Soviet Union, it is obvious that he is only relenting to public opinion in an attempt to bolster his rapidly eroding popularity. To see the real intent of Reagan's policy, one need only remember his violation of the Salt II agreement and his "re-interpretation" of the Anti-Ballistic Missile Treaty in his fetish-like insistence on building the most costly, absurd and destabilizing military porkbarrel in history: the Strategic Defense Initiative.

Perhaps the fight for economic justice is our most difficult task. Because the U.S. government has always prioritized military domination and corporation profits over the rights of its citizens to food, shelter, education, health care, safe working conditions and power to take part in decisions that affect their lives, the most wealthy nation in the world has thrown away millions of lives. These throwaways — the homeless, the unemployed, the elderly, the veterans, the politically disenfranchised, the one-third of the American youth failing to graduate from high school — remind us of the appalling social cost of a war economy.

I urge all who can possibly make it to join us in San Francisco this Saturday. Although it is getting toward the last minute, bus tickets are still available for \$25 at the Central America Response Network table in front of the UCen from noon to 1 p.m. For more information, call COMPA at 962-0254 or the Central America Response Network at 685-1283 or CISPES at 963-2962.



for the disappearances of community leaders and the genocide of indigenous peoples. Honduras is still a virtual military base where in May 50,000 U.S. troops will take part in "Operation Solid Shield," a military maneuver larger than the previous Big Pine operations, scheduled to coincide with a major *contra* offensive, making the situation ripe for a Gulf of Tonkin-like pretext for a direct U.S. invasion of Nicaragua. Indeed, it is not far-fetched to fear that Reagan may embark on a military adventure in Central America or the Middle East in a desperate attempt to distract the

The Reader's Voice

Look at the Courses

Editor, Daily Nexus:

Two years ago, I took a Chicano studies class. It was the first and last ethnic studies class I ever took because I was so disgusted and disappointed in the course. Now, don't get me wrong. I'm all in favor of learning about the different ethnic cultures in our society — I think it is interesting and informative. However, the class that I took was neither. It was, I think, supposed to be about the Chicano community. I say "I think" because I never learned much about the Chicano community. It seemed that no matter what the syllabus said, the class discussion always turned to discrimination. Okay, discrimination is one aspect of the formation of the Chicano community, but it's not the only thing. Every class period would turn into a debate about how the "bad" white people have oppressed the "poor, underprivileged" minorities. I know that this happens, but not everybody does it! Just because a person is white does not mean that he or she automatically hates blacks and Chicanos. Insulting the white race, as was done in class, is not going to change anything. Two wrongs don't make a right. I don't know if all ethnic studies classes are like this. I certainly hope not. But if you ask me, one class like this is too many. Before ethnic and gender studies are made a requirement, a good look should be taken at the courses to make sure that they are unbiased and as objective

as possible. Otherwise, they will not only be a waste of four units, but they will also fail to accomplish the goal of cross-cultural education that people are trying so hard to achieve.

JULIA LOMBARDI

Heckling Candidates

Editor, Daily Nexus:

I would like to take EXTREME exception to Chuck Desmarais's letter (Nexus, April 20) that suggested Michael Coyle's alleged sexism was the only reason boos and hisses were leveled at A.S. candidates. I am a candidate and I was booed, in particular by one DSU candidate, not over any charge of sexism, but because I hold a different view towards A.S. than most of the incumbents or DSU members. This kind of heckling is sick and any slate that proposes to open up A.S. to the students while engaging in this potentially intimidating behavior is either unaware of their own contradictions or is bullshitting you the students.

I would also like to point out the kind of language used by Mr. Desmarais in his letter; "reactionary" "politics," "sexist pig" these are not the phrases used by concerned students to characterize one another — I'll leave it to your imagination as to who brandishes words like these. As to those who hide in a crowd and attempt to chant down those with views different from your own — stand by yourself and your beliefs sometime and find out what it feels like.

GREG BRUBAKER

ment from the A.S. Committee on the Status of Women run in yesterday's Nexus was meant for publication. Panel discussion on cross cultural feminism will be held today in UCen II at 4 p.m. The Nexus regrets this

Features

Man vs. Machine

A Journey Through the Minds and Works of Mechanical Engineering



Senior Scott Schroeder, left, demonstrates how to ride the Combat Tuna II, which he and three other senior mechanical engineering majors designed for their senior project. The vehicle is an "optimized" version of the original Combat Tuna, constructed two years ago by mechanical engineering students.

The new remodelled version will be put to the test today when the annual human-powered vehicle competition gets underway in Reno, Nevada. Schroeder will compete in Saturday's 22-mile road race, one of three parts in the competition.

Above, Senior Mike Scanlon works on a shroud for the Combat Tuna II. The shroud will be placed over the vehicle to make it more aerodynamic, thereby decreasing wind resistance, during the race.

By Tonya Graham

Far on the east side of campus, where most students rarely venture, a group of mechanical engineering majors are hard at work conceptualizing and constructing what they hope will be worthwhile senior projects.

Some of the projects have been designed to reap competitive rewards. Some may have redeeming economic value. Others are meant to serve as an educational tool for social awareness. But, all of the projects have one thing in common: Each has required months of thought, determination and commitment on the part of the students involved.

Seniors Jeff Briggs, Mike Scanlon, Steve Ijams and Scott Schroeder are working together on their senior project: the Combat Tuna II. The unique name is especially suited for the special human-powered vehicle the four have constructed in preparation for the annual HPV race, which gets underway today in Reno, Nev. The race draws contestants from a number of college campuses, testing their engineering skills by attempting to put together the fastest, most effective vehicles possible, using a cycle frame.

According to Briggs, the vehicles can have two, three or four wheels, but his group decided to go with a two-wheeled model because "with fewer tires, there is less rolling friction to cause resistance ... and it has better turning ability." There is also decreased "road effect and air friction" caused by the huge shroud which covers the vehicles, Briggs explained. With a three-wheeled vehicle, the shroud has a wide bottom, allowing air to sweep into the interior, causing air friction. However, with a bicycle, it is possible to curve the shroud close to the wheels and the air passes underneath without creating further resistance, he said.

The vehicles' shroud is designed to make the vehicle more aerodynamic, thereby cutting down on wind resistance and allowing it to "get up to speed on the sprints," Scanlon explained.

Though a two-wheeled model does not have as much stability as a tricycle and therefore the rider cannot sit as low to the ground, a three-wheeled vehicle "is limited because it can't turn," and this slows the rider down, Briggs added.

Two UCSB vehicles were entered in last year's HPV race — one trike and one bike — both in a recumbent, or sitting, position. Briggs and his partners decided to stick with the recumbent position because they say it is both safer and more comfortable than the prone position, where the rider's face is near the ground.

After reaching these initial decisions, the group set to work on making their vision a reality. "Originally, we were just going to build a shroud ... and take one of the existing bikes (from past competitions)," Briggs explained. The group "ended up not liking the bike (from last year's competition) at all," so instead found an old frame used in a race two years ago — the Combat Tuna — and decided to "optimize this bike," with hopes that it might be further refined next year by seniors working on HPV projects. "It would be good to get a really good bike and keep refining it," he suggested.

The group learned from the mistakes of the first Combat Tuna and has worked to eliminate the problems it faced in the race two years ago. "It was a really competitive bike," Briggs said, but it ran into problems because the chain kept coming off, a tire popped, steering problems surfaced and it kept blowing over. "We've reworked the steering, put on a new chain, lowered the seat, put a smaller wheel in back, and

decreased the frontal and sail area (of the shroud) to combat these problems," he explained.

The four men have spent nearly all their waking hours this past week working to complete a shroud to fit over the bike. Constructed of aluminum channel ribbing and longitudinal strips of thin pine, and sheathed in shrink-to-fit monocoat mylar, the shroud is painted with metallic reflective, so it will "look like a big silver fish," Briggs said.

The four men will have the opportunity to test their 50-pound vehicle today, when the HPV competition gets underway. UCSB students have historically fared well in the contest and three years ago walked away as the overall winners. Two years ago, UCSB captured first place in the road race, one of three areas of the competition. In addition to the 22-mile road race, vehicles also compete in "static judging, which is based on a report," and a "speed run," where the object is to reach the top speed, Briggs said.

The Combat Tuna II is designed to reach a speed of 54 miles per hour. However, speed is not necessarily the most important factor in the competition. "For the road race, the biggest strength is turning capability," Briggs said. With the two-wheeled vehicle design, "we can pedal around corners and accelerate out of the turns with the light weight.... This is one of the lightest (vehicles) to come out of here."

"We've got a good chance this year," Briggs predicted, "but unfortunately we don't have a (practiced) rider." Much of the competition is based on the strength and ability of the rider, he explained. Through a process of elimination, the group decided to have Briggs compete in the speed run and Schroeder in the road race.

Even if the group does not ride away with an award, Briggs believes one of the greatest benefits

of working on his senior project has been working with a group. "You have to learn to compromise and get over personality conflicts," he said. "It's good pre-professional preparation.... In the real world, you have to learn to get along with people." However, one of the drawbacks has been the time commitment involved, he said. "You have to put in a lot of time. Every little thing you do takes 10 times as long as you thought."

Mechanical engineering Professor Grant Johnson, who directs students doing senior projects, encourages students to work in groups for the specific purpose of interaction. He believes, as Briggs stated, that working in groups better prepares students for careers after college in which they must work with other people.

However, according to Johnson, the projects are also an important part of each student's education. "We try to make the projects finalize the cumulative activities of all their (the students) previous years ... one practical project that will draw on as many disciplinary fields as possible," he explained.

Johnson has seen a marked improvement in the quality of senior mechanical engineering projects in the last two years. This may be attributed, he suggested, to the fact that senior projects are no longer required for graduation due to time, space and budget limitations. "We try to encourage students to pursue this activity only if they are exceptionally enthused," he said.

Only 15 projects are currently being worked on and these represent the best of a number of proposals introduced by students. Three years ago, 30 projects were constructed, but the emphasis is now on quality over quantity, Johnson said.

Senior T. Hardy Jackson decided to work alone on his project: the development of an "electro-mechanical press." The idea for

the project came as a result of an announcement by Johnson, who received a request from the Hewlett Packard Corporation. The company, which manufactures civilian computing equipment, asked for help in solving two problems it was experiencing. Johnson relayed this request to his students, and Jackson took on the challenge.

The problem he decided to tackle concerned mounting plastic extractor handles onto printed circuit boards. These handles are used to extract the circuit boards from the input/output bus into which they are plugged, he explained. The company currently utilizes one of two methods to mount the handles, but these methods are inefficient, he said.

In the first method, "the operator tries to push the metal pin into the handle by hand with pliers," Jackson explained. For the second, a special device is used to speed the process, but this device can only be used to fit one circuit board and there are 20 to 30 different types of boards, he said. "The hope was to see something fast and universal, that could be used for different boards."

After deciding to work with this problem, Jackson contacted Hewlett Packard and asked the company a number of questions. "They said if they approved the design, they would finance it."

Jackson then set to work developing a small prototype to test his concepts. Hewlett Packard approved of his initial problem-solving design, so he quickly began work on the second phase of his project: developing a semi-automatic machine utilizing a "shishkabob" concept. The idea, he explained, is "to have skinny pins go through both the handle and the board at the same time."

In this process, the operator lines up the handle and the circuit board, then inserts them into the machine. With the pull of a lever, an automatically inserted pin joins the handle and circuit board. Magnets aid in holding the pin until it is inserted, Jackson explained. With insertion complete, another magnet is used "to pop the part out ... then it's ready to go again," he

said. This last reset operation was one of the more difficult mechanical problems to work out, he said. Though this model still requires some manual operation, if effective, it would be both faster and universal to all circuit boards, he predicted.

When this second phase is complete, which Jackson hopes will be soon, he will demonstrate the final product for Hewlett Packard officials, "and if it works, they'll use it," he said. Then the third phase of the project would begin — construction of an automatic mechanism — which Jackson may or may not be involved in.

Thus far, the project has cost approximately \$1,000. "Everybody's really thrilled and interested, including Hewlett Packard," Jackson said. If the project proves useful, he will "definitely want it patented.... It would make assembly more reliable, take up less space and make the process a little faster."

However, even if it does not work, Jackson said he has learned a lot from the experience of constructing a senior project, a task he believes serves as "a practical compliment" to often theoretical class material. Students also benefit, he believes, by being forced to deal with sales people and learn what products are on the market when purchasing what they need for their projects.

Seniors Ted Miller and Eric Coatney decided to take an entirely different approach with their project. The duo set out to build a machine that would have some educational and motivational value, and came up with the idea of constructing "The Human Generator — an engineering solution to social apathy and overconsumption."

Calling the United States both overconsumptive and wasteful, Miller pointed to the fact that the U.S. has 6 percent of the world's population, yet uses 35 percent of the energy. "When I look at American society, I see a history of wastefulness and excessive land use," he said, pointing to "manifest destiny and the shooting of buffalo from trains" to illustrate wasteful attitudes in American

history. He also cited the present dumping of nuclear waste in the ocean and the failure of many people to recycle aluminum and other goods as examples of Americans' lack of appreciation for their resources.

"If we continue at the current rate in our use of fossil fuels, we'll run out of natural gas in 30 years, oil in 50 years and coals in 150 years," Miller forecasted. For this reason, he believes the conservation movement must move forward and become a part of each person's lifestyle. However, the idea of conservation to some people is abstract, according to Miller, while others do not believe one individual can make a difference. "A state of non-affinity exists in American society where people feel like not working together ... and don't help each other out."

Miller contends that both conservation and the individual are important. "We need to work together.... Thoughtful society has to have thoughtful individuals," he charged. "That's what the human generator is about.... The concept was to develop a device that's human-powered that will generate some form of useful energy. We wanted something dramatic — not practical — something to educate people."

The human generator utilizes a rowing mechanism and a flywheel to "simulate the resistance encountered while rowing," Miller explained. With this machine, it is possible to convert human energy into kinetic energy, he said. The problem that he and Coatney encountered, however, surrounded the question of how to convert kinetic energy into electric energy. "The biggest concern was cost and usefulness."

With this objective, Miller and Coatney, with the help of computer science major Jack Greenbaum, created a design utilizing an induction generator. "We will hook the induction generator into a circuit similar to those used to feed power back to utility companies in small-scale wind energy production," Miller said. The average person will be able to feed about 200 watts of power back to the power company for ap-

proximately six minutes, using the Human Generator.

The rowing mechanism spins the flywheel, which stores energy and keeps the generator turning, Greenbaum explained. The flywheel is necessary to keep the generator spinning during the rowing machine's backstroke. The induction generator can either put power back into the wall or run it through an appliance. The power generated — which is more than enough to power a color television — can be measured with a watt meter, similar to that found on the side of a house, he said.

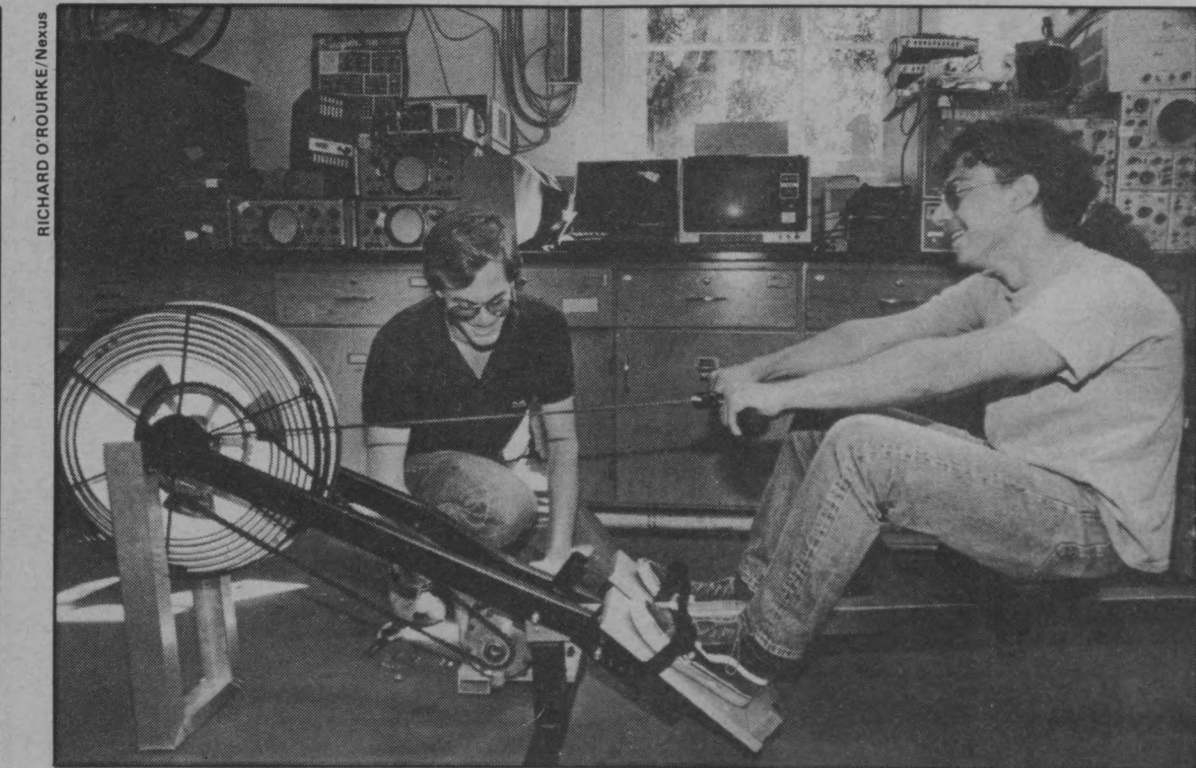
"It (the Human Generator) can give you an idea of how much energy is used," Coatney added.

"After sweating out a few kilowatt hours, people will think twice before they turn on the light switch or flip on the TV," Miller predicted.

While some may question the practicality of the device, Miller emphasized that practicality is not the purpose of the project. "The real idea is to have the machine as a public display for education," he explained. However, he did suggest that the machine could prove useful in health clubs or remote societies that do not have access to modern energy sources.

Johnson also sees some possible applications for the Human Generator. "I think the project has the greatest potential as a human power source for Third World country development," he said, suggesting that the machine might prove useful in such countries for irrigation, refrigeration, telephone communication and the development of electric power. Third World countries use "arm power and leg power, but don't utilize the full body" to generate power, and this is something the Human Generator, with its rowing mechanism, does, he said.

Miller and Coatney, as well as all other mechanical engineering seniors, will have the opportunity to show off their projects May 2, when incoming freshmen, parents and UCSB students crowd the campus for "Super Saturday." Anyone interested in examining the achievements of these seniors should watch for their display in the Engineering II courtyard.



Senior Ted Miller, left, assembles the chain connecting the fly wheel to the generator of the project he and his partners are constructing — the Human Generator. The machine utilizes a rowing mechanism and a fly wheel to transform human energy into kinetic energy, then uses a generator to change the kinetic energy into electric energy. This power, equal to approximately 200 watts, can be returned to the electric company or sent through an appliance.

Above, Miller's partners, Seniors Eric Coatney and Jack Greenbaum, demonstrate how the machine works. While Coatney adjusts the generator, Greenbaum utilizes the rowing mechanism to turn the fly wheel. The turning motion continues through the user's backstroke, allowing a continuous flow of energy to the generator.

Sports

UCSB Spikers Stand Strong Behind Lead Of John Kosty

By Todd Davidson
Sportswriter

Collegiate volleyball players evoke certain images in people's minds. Let's see, uh, six-foot-three, blond hair, blue eyes, hails from someplace ending in 'Beach,' and punctuates phrases with 'dude' and 'rad.' Usually, the phrase 'workhorse' does not find its way into this imagery.

For John Kosty, however, the stereotype won't fit, but not because he has dark hair or because he hails from a town ending in 'Valley.' John Kosty is a genuine workhorse, and his good habits have been the principle reason he has had such an outstanding senior season.

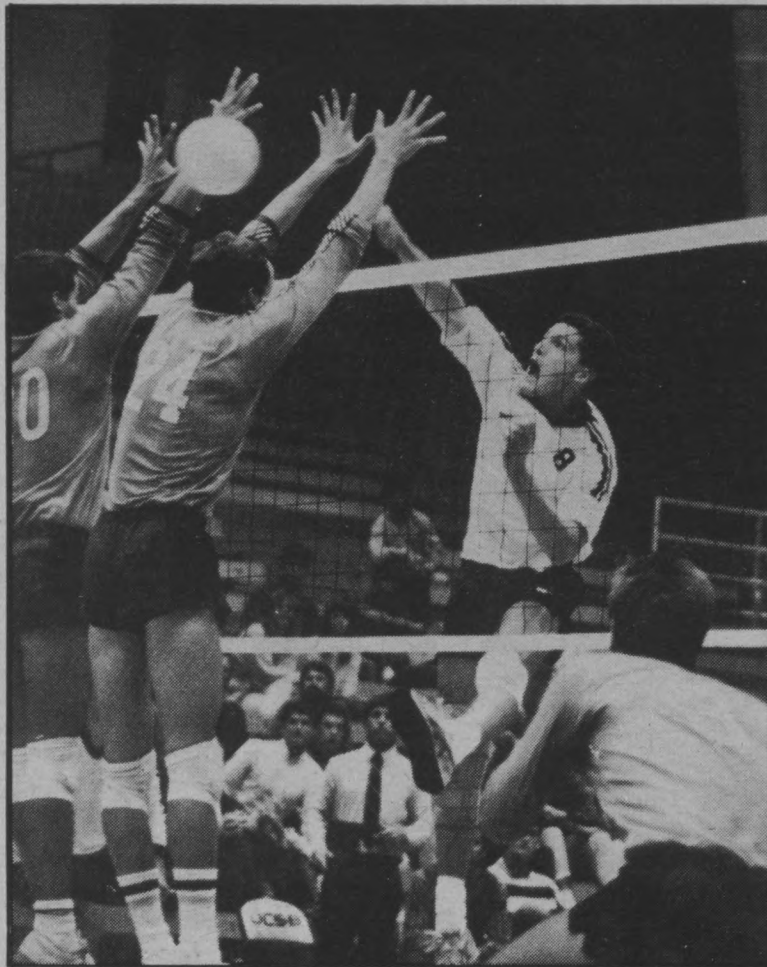
Needless to say, he has also been a key contributor to the success of the 1987 UCSB men's volleyball team.

"He's our statistical leader," Head Coach Ken Preston said. "We go to him a lot (to hit), we set him in the back row. He's the guy we like to go to."

Indeed, the stats confirm Preston's opinion. Kosty leads the team in kills (315), attempts (625), hitting percentage (.375), and service aces (9). His contributions don't stop on offense, though. He leads the team with 92 blocks (23 solos and 59 assists), and he is even third in digs, with 97.

Had coaches known Kosty would put up such big numbers at one of the traditional four (along with UCLA, USC, and Pepperdine) college volleyball powers, they would have tripped over each other to recruit him out of Fountain Valley High School. Kosty made All-Sunset League his senior year and third team All-CIF, but only Pepperdine expressed any interest in him. "They offered to pay \$1,000 a year at a school that costs about \$11,000," Kosty explained.

He decided to attend nearby



John Kosty's workhorse habits have earned him the role of UCSB volleyball's statistical leader and major force in the collegiate sport.

TOM REZJEK/NEXUS

Golden West Community College, where the limelight was dim, but his share of it was large. Kosty made All-League and Golden West made it to the State semi-finals where it lost to Santa Barbara City College, led by Gaucho alumnus Sean Fallowfield, who now plays the beach tour.

Golden West Coach Luanne

"I have lots of respect for John as a player. He works real hard."

—Jon Wallace

Terhagen is a good friend of UCSB women's volleyball Head Coach Kathy Gregory, and Terhagen invited Gregory to watch the team play. Kosty played well enough to have Gregory urge Preston to watch him play at SBCC. Preston was sold after the five game, three hour match. Kosty enrolled at UCSB in Fall '83.

Kosty spent his first year learning what it takes to play in the

best conference in the nation. He redshirted his first year because he didn't have enough transferable units from Golden West.

"It was probably good for him," Preston commented. "It (red-shirting) made us a lot weaker, but ... he could concentrate more in the weight room. He could always hit hard but he had to work on his control."

Soon Kosty's skill began to match his size (6-3 and 195 lbs.). "I always liked him because he had good size in a middle blocker," Preston continued. "We started him out there. He played in the middle and we noticed he was getting his arm swing down. We started working on different sets, time changes and area changes."

By Fall '84 Kosty was ready to play, but the rigors of practice and schoolwork took some getting used to. "It was tough in a way because I wasn't used to the practice schedule," Kosty said. "Physically it was really tough, and with school (See KOSTY, p.12)

Spikers Vie for An NCAA Seed

By Todd Davidson
Sportswriter

And then there were four.

The pretenders in collegiate men's volleyball have all packed up for the year, and only the title contenders remain.

The grueling WIVA conference schedule is finally over, and the four survivors (aside from conference champion UCLA, which receives an automatic NCAA Final Four Bid) face off tonight in the first round of the Western Regional Championships at San Diego State.

Top-seeded Pepperdine plays fourth-seeded Stanford in the opening match at 6 p.m. followed by the match of key importance to all Gaucho lovers, UCSB versus USC. The winners will meet Saturday night to decide the fourth team making up the final four next weekend at UCLA's Pauley Pavilion. The losers go home.

Both matches figure to be interesting, but the UCSB-USC match features the stronger rivalry, the middle seeds (two and three), and perhaps the two best

teams in the Regionals.

Head Coach Ken Preston believes the team with the most confidence and the soundest fundamentals has an excellent shot of playing in the Final Four. "The team with the best confidence has the best chance," he began. "The team who handles the pressure best will do the best. We have to handle adversities such as bad calls. Some things weren't going our way in the Stanford game and we let it affect us. We have to keep our confidence up, and we can't lose trust in our teammates."

UCSB has a distinct edge over USC coming into the Regionals due to their victory over the Trojans in the 'Clash of the Titans' tournament, the most recent meeting of the two teams. But USC posted three wins over the Gauchos before that match. Preston believes his squad has to counter the Trojans' strengths well to win.

"We have to pass the ball well and hit the middle," Preston said. "They're a good serving team. We passed well last time and we hope we can (pass well) again. We also (See TOURNEY, p.12)

Men's Tennis Ends 1986-87 Campaign with USIU Win

By Brian E. Jeffery
Sportswriter

The UCSB men's tennis team finished the 86-87 campaign amidst controversy Wednesday, as the Gauchos rallied for a dramatic 5-4 win over USIU of San Diego. Following the completion of the Gauchos number two doubles victory, the USIU head coach began shouting insults at UCSB's number four singles player, Steve Leier. Leier retaliated by tossing water, and a small shoving match ensued. The USIU coach was perturbed by Leier's on court manner, as Leier continually questioned his opponents line calls.

"This was no Leonard-Hagler, but it was interesting to see that tennis could turn into having some violent aspects," team captain Ron Reiter stated.

The match marked the end of Reiter's four year career as a Gaucho. Reiter came to the team under the recruitment of former Head Coach Bill Detrich in 1983, and has been the epitome of a team player since then. Reiter has bounced in and out of the starting line-up, but feels his most important asset has been his leadership to the younger players.

"I was glad to play my college tennis for UCSB, and hope my hard work ethics have rubbed off on some of the younger kids," Reiter said.

The match was hard fought from start to finish as UCSB and USIU split the six singles matches. Craig Ellison, number five singles, pulled out a key 6-7, 7-6, 6-4 victory in a match which turned on one point. After having lost the first set, and being down 5-3 in the second set tiebreaker, Ellison made several diving saves to win the point and the match. Had the point gone to the USIU player, the final outcome could have been different.

"I really think that one point turned the match around," Ellison explained. "He was so close to victory, and to be denied had to affect his

(See TENNIS, p.12)

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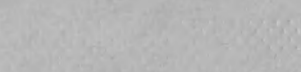
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Speier Goes Where No Gaucho Has Gone Before

San Francisco Giant Chris Speier, who played baseball at UCSB in 1969, hit his 100th major league home run Tuesday against Los Angeles at Candlestick Park. That figure is the most ever for an ex-GaUCHO in the major leagues.

The 37-year old shortstop returned to the Bay Area in the off season after being traded from the Chicago Cubs, where last year he hit .284. Speier, a 1969 WCAC all-conference second team selection at UCSB, broke into the majors in 1971 with the Giants, where he was third in the Rookie of the Year voting.

In 1973, Speier started for the National League in the annual All-Star game, opposite Oakland's Campy Campaneris.

Currently, Speier is hitting well over .350 for the Giants. Only one other ex-GaUCHO, pitcher Brian Kingman, who played an integral role in Oakland's 1981 divisional championship, has achieved success in the pro ranks. —Scott Channon

TOURNEY

(Continued from p.10)
have to read their offense and get some stuff blocks."

Blocking is especially important in light of USC's great outside hitters, led by Adam Johnson and Dave Yoder. In their last match against Stanford, the Gaucho block disappeared, and a mediocre Cardinal team pulled off a major upset in the Events Center.

"We can't get in a side out war," Preston continued. "We have to cheat on some hitters and stack more on other hitters ... their outside hitting is their key. If we neutralize Johnson and Yoder,

we'll win." The early match tonight features the top seed in a slump of sorts and the bottom seed on a roll. Pepperdine finished its WIVA season by being spanked by the Gauchos in three straight games. In that match Pepperdine's passing was atrocious, and the Wave offense was just a ripple in a pond.

Stanford, despite three freshman starters and a shallow pool of talent, has been creating passing problems for its opponents with great serving. The Cardinal made UCSB's passing look silly in a couple games. (Ancient Chinese proverb say team who can't pass won't win.) Look for an upset unless the Waves wake up.

TENNIS

(Continued from p.10)
confidence."

Following a Gaucho win at number one doubles, and a loss at number three doubles, all eyes centered on the number two doubles match in which UCSB's Jeff Greenwald and Kip Brady were engaged in a third set struggle. Brady and Greenwald got a key break of serve in the seventh game, due to some excellent service returns, and never looked back in posting the clinching 6-3, 3-6, 6-4 win.

The Gaucho victory gave UCSB some revenge for the drubbing USIU administered UCSB last season, and ended the Gauchos season at an impressive 22-9.

KOSTY

(Continued from p.10)
it was tough, too ... but we had a lot of good guys and we had a good shot at going (to the NCAA's) ... I played a small part on the team. I started off and on, and I came in when (middle blockers Randy) Ittner or (Chris) Larson weren't doing too well."

The higher level of competition helped raise Kosty's game a few notches. "I loved it," Kosty said of the competition. "It was definitely a challenge. I remember being nervous going into the games. I played good ... I made stupid mistakes a lot, but I stuck with it."

As a junior Kosty started the season strong only to be sidelined with a torn arch in his foot. "I felt like I was playing at the top of my game, the best I've ever played," Kosty stated. "We went to Canada and beat the best Canadian team really bad ... and it felt so good." But injury befell the star on the rise, forcing Kosty to sit out six weeks.

Due to a shortage of middle blockers, Kosty returned immediately to the starting lineup. "His backup (Jamie Mearns) also got hurt, so that forced him to play the whole time," Preston explained. "He needed breaks and he couldn't get them. So his consistency wasn't as good as it should have been. He came back in and had a lot of pressure on him. Everyone expects the returning injured player to be a godsend. He didn't have his skills completely honed, so it was tough."

Despite his inconsistencies, his good matches were really good. When UCSB snapped NCAA champion-to-be Pepperdine's 29-match CIVA winning streak, Kosty had 39 kills with a .429 percentage. Against conference champ USC he had 40 kills and a .354 percentage. Efforts like these earned him honorable mention All-American and had him looking towards a great senior season.

Wisdom told Kosty good things come to those who work for them, and with that in mind, Kosty

worked hard in the off-season. "I lifted hard all summer long, and I coached a couple of Kenny's (Preston) camps to stay in tune with volleyball. But I pretty much lifted three days a week and ran. I just stayed in really great shape ... when the season started I could keep my mind on the fundamentals and not have to worry about being tired during practice, and I think it sharpened my skills a lot."

As his stats for this season show, this added work hasn't hurt a bit. Against UCLA in a heartbreaking five-game defeat, Kosty had 39 kills and a .429 percentage, and against Pepperdine he hit .600 with 21 kills as the Gauchos routed. The latter effort earned him WIVA Athlete of the Week.

A combination of size, quickness, and a perfect arm swing have made Kosty an offensive force. "He's a big, quick man who jumps well, so me and him make up sets in practice," setter Jon Wallace explained. "We've worked on the step out, where he goes into the middle and then takes a step out, so he's one-on-none. That opens up all the sets because he makes the block commit because he has so many different shots."

With a little luck and a lot more hard work, Kosty hopes to continue playing volleyball after graduating (he is a sociology major) in June. He plans to try out for the World University team which will travel to Yugoslavia. After the World University Games, he will try out for the World Champion U.S. National Team. Hard workers set high goals.

Perhaps the greatest compliment payable to an athlete is from other athletes who pattern themselves after him. As Wallace explains, "I have lots of respect for John as a player. He works real hard. I follow him around (in practice) a lot because he keeps me into things. Being a senior, he has a lot of drive, so I follow him so it'll rub off on me."

A quiet, easygoing sort off the court, Kosty has led by example all season long, and if a little bit of his talent rubs off on all the Gauchos, get your tickets for the Final Four next weekend at Pauley Pavilion.

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