



Daily Nexus

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Friday, October 6 1989

University of California, Santa Barbara

Two Sections, 20 Pages

AMROC Rocket Burns On Pad

Officials Vow to
Try Launch Again

By Daniel H. Jeffers
Staff Writer

LOMPOC — The American Rocket Company lost what would have been the first privately developed rocket to take a commercial payload into space when it burned on the launch pad yesterday in a cloud of black smoke and bright orange flames.

The failure was blamed on a failed oxygen valve, which reduced power to the main engines. Onlookers and officials watched as flames and smoke covered the pad, then engulfed the rocket, setting the motor casing on fire. Finally the 58-foot rocket crashed to the ground, with both the motor casing and solid rocket fuel burning hotly.

The countdown had proceeded without any indication of trouble, right down to ignition at 10:38, but after ignition, liftoff was not achieved.

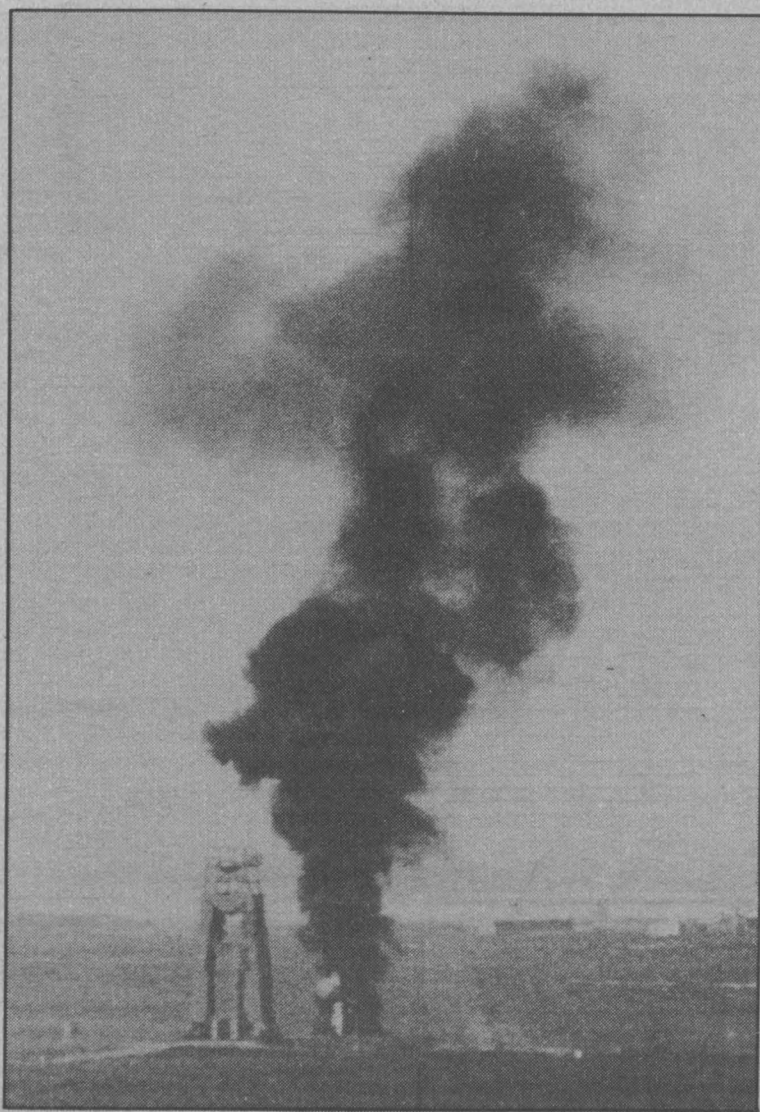
Lack of oxygen was the immediate cause officials gave for the launch failure. An oxygen valve stuck, preventing the solid fuel section, which requires externally applied liquid oxygen to induce ignition, from achieving full thrust, according to AMROC Marketing Director George Whittinghill.

An estimated 20 to 30 percent thrust was achieved, too little to lift the rocket off the pad. The flames from the rocket exhaust were deflected by the surface of the pad, ran up the side of the rocket and ignited the graphite-epoxy motor casing, Whittinghill said.

Air Force officials cleared the press area as a safety precaution and sealed the bunker where the company engineers were working. Even though the rocket motor is not explosive, the engineers are trapped until Air Force officials decide that there is no danger from the flight termination system, used to disable the rocket if there is a malfunction in flight, according to AMROC President Jim Bennett.

The Massachusetts Institute of Technology payload, an experimental re-entry vehicle, separated from the booster and rolled free, said Mary Bowden, the AMROC engineer who designed the payload interface. Although Bennett said the payload was probably ruined, Whittinghill remained hopeful it had sustained only minor damage.

The condition of the payload and the time period before the



DANIEL H. JEFFERS/Daily Nexus

NO BANG — Though their rocket went up in flames, AMROC officials were quick to point out how the inherently safe design of the hybrid motor prevented an explosion.

Design of Rocket Sought Safety and Low Impact on Environment

By Daniel H. Jeffers
Staff Writer

The "Koopman Express" was designed to test a rocket engine that uses both solid and liquid fuels to provide propulsion.

Developed by the American Rocket Company, the designers said they sought to maximize safety and minimize environmental impact with a motor that can be produced cheaply and quickly.

The AMROC rocket, called the Industrial Research Rocket, was the first attempt at large scale use of hybrid rocket technology. Traditional rockets have been propelled by either solid or liquid fuel; the hybrid motor uses a combination of both.

Both liquid and solid motors have been plagued by safety problems since the birth of rocket technology. Solid fuel rockets are the most dangerous, as the solid rocket fuel is essentially a large bomb whose energy will propel the rocket in a controlled direction if all goes well. Since the fuel is complete, and only ignition is

See **ROCKET**, p.5

engineers in the bunker would be allowed to leave could not be positively determined at press time.

AMROC officials were initially shaken, and Whittinghill had tears in his eyes as he gave the first official word after the fire, but he optimistically proclaimed, "We'll have to come back and do it again."

Event Coordinator Scott Vorhees said "I'm ready to go start building a rocket, anyone want to come?... You win some you lose the rest."

Vorhees was quick to em-

phasize that the failure actually demonstrated one of the major advantages of the hybrid rocket design. "We thought it was a pretty good validation of the engine not exploding," Vorhees said. "It was a benign failure."

By the 1:30 p.m. press conference, AMROC was able to put the whole event in a positive light. Bennett received considerable applause from the press and employees as he came up to address the audience.

"Nothing good or great was

See **BURN**, p.5

English Requirements May be Cut by Senate

Freshman, ESL Courses Under Consideration

By Tim Hoffman
Reporter

The elimination of the English 2B writing requirement and the dismantling of writing programs for foreign and economically disadvantaged students are among recommendations the UCSB Academic Senate will review later this month, Academic Senate Vice-chair Porter Abbott said.

The College of Letters and Science Executive Committee requested June 12 that the Program of Intensive English and English as a Second Language departments, currently separate from the UCSB Writing Program, be eliminated entirely as university programs.

In addition, L&S has requested the freshman writing requirement of English 1, 2A and 2B, be reduced to two courses from the current three.

Endorsed by Letters and Science Provost David Sprecher, the proposal also encourages, but does not mandate, both freshman and continuing students to "complete these courses at a junior/community college, state university or through a summer session prior to entering UCSB," the document states.

The formation of a committee

to study the restructuring of the UCSB Writing Program, which administers the undergraduate courses, was approved by UCSB Committee for Educational Planning and Academic Policy. Initial meetings to form the body will take place Oct. 19, Abbott said.

The plan would also "emphasize graduate student (T.A.)-taught classes," instead of the current use of lecturers and full-time faculty as instructors of Writing Program courses.

John Reiff, a Writing Program lecturer and head of the UCSB lecturers' union, said administrators and instructors with PIE and the Writing Program have met the proposed cutback in the English curriculum with disapproval.

"You're knocking out an opportunity for students to get help in basic intellectual skills," Reiff said. "I think it's a bad idea."

"Students simply will not get an equivalent education" under the new proposal, PIE Director Mark Ferrar said. Ferrar said he specifically disliked the planned college recommendation that undergraduates finish their writing requirement at community colleges or other schools.

"The university is not taking responsibility for the education it

See **ENGLISH**, p.4

Weekend Forum to Address Isla Vista, UCSB Relations

By Jeff Solomon
Staff Writer

In order to facilitate better communication between Isla Vista organizations and campus groups, a public forum will be held in Anisq' Oyo' park this Sunday, where speakers will address issues affecting both Isla Vista and the university.

The Isla Vista forum, cosponsored by Associated Students and the Community Affairs Board of UCSB, will include discussions regarding I.V. Foot Patrol rela-

tions with residents, emergency vehicle access on Del Playa, Isla Vista/university relations, the I.V. redevelopment agency, water conservation (Measure T) and blufftop planning.

The goal of the Oct. 15 forum "is to gather representatives of all of the I.V. groups and let them express their problems and what they would like to see done, and maybe we can come up with some answers," A.S. County/Community Board member Mike Bayewitch said.

See **FORUM**, p.4

Early-Morning Rape, Attempted Break-in Reported Last Month

A female Isla Vista resident was raped on the morning of September 29, and an attempted break-in was reported that same morning, according to Santa Barbara County Sheriff's Department Crime Analyst Sgt. Sam Gross.

The rape was reported at 4 a.m., Gross said, and the break-in was reported approximately 2 blocks from the location of the rape. Multiple sources told the Nexus the attempted break-in occurred at a UCSB sorority house, although that information has not been confirmed. Police believe the two incidents may be related.

The suspect is still at large, and Gross recommended Isla Vista residents take extra care in locking their apartments. "Most people in I.V. by and large don't use the locking devices that are there... That could contribute to some of the crimes in the area," Gross said.

WORLD

Hundreds of East Germans Surge to West from Prague

HOF, West Germany (AP) — Freedom trains brought 7,600 East Germans to the West on Thursday after a slow, cold trip that witnesses said was disrupted when thousands left behind fought police in an attempt to board the locked cars.

More than 600 more East Germans were heading for sanctuary in West Germany from Poland.

The refugees who reached this town Thursday from Prague, Czechoslovakia, had spent up to 14 hours locked in unheated East German trains. Many had long waits outside the West German Embassy in Prague for a chance to get in and join the exodus.

Before the trains passed through East Germany late Wednesday and early Thursday, thousands of people chanting "We want out!" lined the tracks and flocked to stations in hopes of jumping aboard.

Police in Dresden, East Germany, reportedly used clubs and water cannons to drive crowds back from the main railroad station.

"It was a horrible scene," said a woman from Dresden who asked not to be identified because she feared reprisals. "People were trying desperately to get to the platforms and the tracks, but the police forced them back."

Azerbaijanis Cut Off Food And Supplies for Armenia

MOSCOW, USSR (AP) — Soldiers began guarding fuel and food shipments bound for beleaguered Armenia, cut off for more than two months by saboteurs in the neighboring republic of Azerbaijan, reports from the region said Thursday.

Soviet troops arrived in the republic to ensure the safe arrival of supplies, most of which must pass through Azerbaijan to reach Armenia, the reports said.

It was unclear if Soviet troops also were in Azerbaijan, but a source in the region said supplies were safely reaching Armenia. Azerbaijanis for more than two months have burned bridges and blocked rail lines to stop the regular flow of supplies from reaching Armenia. The blockades are reportedly an outgrowth of the dispute over which republic should control the territory of Nagorno-Karabakh.

The blockade has not only resulted in chronic shortages of food, fuel and other crucial staples, it has also interrupted the flow of supplies to people affected by the devastating December 7 Armenian earthquake.

Armenia is at the southern border of eastern Soviet Union and much of the republic is bounded by Azerbaijan, through which 80% of the supplies must pass.

Peace Prize Given to Dalai Lama for Nonviolent War

OSLO, Norway (AP) — The Dalai Lama, the spiritual and temporal leader of Tibet whose title means Ocean of Mercy, won the 1989 Nobel Peace Prize on Thursday for decades of nonviolent struggle to free his country from China.

He said in response: "My case is nothing special. I am a simple Buddhist monk — no more, no less." He expressed hope the award would focus attention on compassion in every human being.

China called the award an insult and interference in its internal affairs.

One clear purpose of the Norwegian Nobel committee was to deliver a message of support to the pro-democracy movement in China.

Analysts also said it might help eventually to break the deadlock between China, which has occupied the Himalayan nation since 1950, and the Dalai Lama, who leads and exiled government based in India.

NATION

Statutory Ban on Burning The Flag Passed by Senate

WASHINGTON (AP) — The senate on Thursday overwhelmingly approved a statutory ban on defacing the American flag after defeating a proposed revision that sponsors said could prove fatal in a future court test.

President Bush said he respected the action but would continue to push for a constitutional amendment.

The 91-9 final vote came after maneuvering by Senate Republicans, who say along with Bush that amending the Constitution rather than passing a simple statute is the only effective way to conquer last June's Supreme Court decision throwing out a Texas flag-burning law.

The bill, which previously passed the House but now returns there for consideration of Senate changes, calls for up to a \$1,000 fine and a year in jail for burning or otherwise defacing the flag. Both houses are to consider a proposed amendment to the Constitution later this month.

The Democrats say they have carefully worded their bill to protect it against an expected new court challenge on free-speech grounds.

Former PTL Leader Found Guilty of Defrauding Flock

CHARLOTTE, North Carolina (AP) — PTL evangelist Jim Bakker was convicted Thursday of using his television show to defraud followers of \$3.7 million, money the jury foreman said corrupted a minister who started out to do good.

"He was called by God. But eventually the money became too much for him," said foreman Ricky Hill, who said during jury selection that he was a Christian. "We kept looking for something from the defense and we never saw it."

Bakker faces a maximum sentence of 120 years in prison and \$5 million in fines. The U.S. District Court jury convicted him of all 24 counts in the indictment, which charged he oversold lodging guarantees, called "lifetime partnerships," at his Heritage USA religious retreat.

Defense lawyer George C. Davis said the verdict would be appealed.

Prosecutors said Bakker diverted \$3.7 million in ministry funds for personal use while knowing PTL was in financial trouble. He used money from PTL for vacation homes in California and Florida, a lakefront parsonage, a houseboat, Rolls-Royce and Mercedes cars and more peculiar luxuries such as an air-conditioned doghouse.

Bakker's wife, Tammy Faye, said she and her husband would return to Orlando, Fla., where they moved the die-hard remnants of their ministry.

U.S. Officials Say Panama Coup Doomed From Start

WASHINGTON (AP) — The aborted effort to overthrow Panamanian Gen. Manuel Antonio Noriega was doomed by a series of false assumptions and mistaken judgements by the rebels as well as by the American forces' lack of flexibility, U.S. officials said Thursday.

One U.S. official, evaluating the events of the past two days, said the American forces in Panama were prepared for any contingency — "from the maximum all the way to the minimum." But to this official, speaking on condition of anonymity, said constraints were placed on Gen. Maxwell Thurman of the Southern Command, who assumed his duties in Panama just two days before the insurrection.

Defense Secretary Dick Cheney said it was "hogwash" to suggest that the United States had refused an offer from the rebels to take custody of Noriega.

STATE

Citizens Who Held "Night Stalker" Ask For Reward

LOS ANGELES (AP) — Nineteen people who say they helped capture Night Stalker serial killer Richard Ramirez have put in claims for \$80,000 in reward money offered prior to his arrest in 1985.

Five agencies were reviewing the applications for the reward money, which depended on Ramirez' conviction before being paid. Ramirez was convicted Sept. 20 of 13 murders and Wednesday a jury recommended execution.

"We're hoping to put some recommendation on the county's table later this month," said Georgette Dewyer, deputy executive officer with the county Board of Supervisors.

Dewyer's four-member panel will review the applications after Sheriff's Department recommendations and submit its decision to the supervisors.

The reward was offered by the city and county of Los Angeles, the cities of Arcadia and San Francisco, and the governor's office.

Ramirez was captured in 1985 by an angry East Los Angeles crowd.

Attorney Suspended After Abusing Disabled Clients

SAN FRANCISCO (AP) — A wheelchair-bound lawyer who has won landmark cases on rights of the disabled was ordered suspended for two years by the state Supreme Court Thursday for neglecting or mistreating clients, some of them also disabled.

In a unanimous ruling, the court said Mason Rose's actions toward his clients, including improper business dealings and willful failure to provide services, would have justified disbarment, as recommended by the State Bar. But the court said Rose had been under severe stress during the period, and also noted his "dedication to the cause of the disabled."

That dedication was one reason for Rose's former problems as a lawyer, said David Clare, who represented Rose in the disciplinary case.

He was "overcommitted, a guy who couldn't say no," Clare said, citing Rose's service on numerous governmental and volunteer organizations for the handicapped, his involvement in politics as former city councilman and mayor of Rolling Hills, and his handling of several disabled-rights cases without charge.

B-1B Bomber Lands Safely With Failed Ground Gear

EDWARDS AIR FORCE BASE (AP) — A B-1B bomber crew that landed despite crippled landing gear on Thursday credited coaching from engineers for the safe return of the craft nicknamed Excalibur.

The big swing-wing bomber remained on the runway where it slid several thousand feet Wednesday after aircraft commander Capt. Jeffrey K. Beene and copilot Capt. Vernon B. Benton set it down on the main gear and gently dropped the nose to the ground.

Beene said the crew experienced problems with both the electronic and hydraulic systems controlling the nose wheel.

The crew said it was Air Force and B-1 engineers at the manufacturer, Rockwell International, who decided the crew could land the bomber safely rather than have to eject.

The pilots were coached by Rockwell's chief B-1 test pilot and engineers during the landing, during which brakes were not used.

The \$280 million B-1B, part of the 96th Bombardment Wing at Dyess Air Force Base, Texas, took off on a training flight at 6:38 a.m. PDT and was near Abilene when the problem was discovered about 9:30 a.m. PDT.

Daily Nexus

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Better than toast

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Weather

OOOPS!!! We got little Jon-boy mad, did we? Hey, little man, I'm sorry! I realize the Phys Ed. department is completely neutral in the annual UCen/RecCen "student" initiative, even if certain high-level P.E. 'professors' have prefaced many an intramural/expansion propaganda meeting with "Now I'm just an adviser (nudge-nudge wink-wink), and these are just my opinions on what I think you should do (wink-wink-fart)..." Sound familiar, spam-hamster?

Whaddya thinking? That I don't know anyone who has ever taken a P.E. class or played intramurals? You can whine, you can lie, but you can't hide.

FRIDAY

High 70, low 47. Sunrise 6:57. Sunset 6:38.

SATURDAY

High 73, low 50. Beautiful weekend in store, kids. Ana-gram of the week: V.P. Joe Satan.

Council Approves Funds for Reps To Attend Leadership Conference

A total of \$551 was allocated at Wednesday night's Associated Students Legislative Council meeting to nine student representatives who will attend a leadership conference at UCLA later this month.

Council unanimously passed a bill allocating the necessary funds for travel expenses, hotel accommodations and registration to send the students to the two-day University of California Student Association Fall Leadership Conference October 14.

Representatives from each of the nine UC campuses attend the semi-annual UCSA conferences in the fall and spring. As many as 15 students from each campus may attend the event, the bill states.

The leadership conference "will provide UCSB students with an opportunity to network with students from other UC schools," according to the bill's author, A.S. External Vice President Amy Supinger.

"In past years, participation in university-wide activities on the part of UCSB students has not always been active," Supinger said, explaining that attending the conference at UCLA could serve to increase interaction with other campus leaders.

The Graduate Student Association has also allocated funds to send six of its members to the conference.

— Tim Hoffman

LEG COUNCIL FILE

Legislative Council Meeting Summary
October 4, 1989

Bill #14 UCSA Fall Leadership Conference Funding — passed

Money totalling \$551 will be allocated from the A.S. Suspense Account to send nine A.S. representatives to the University of California Student Association conference held at UCLA Oct. 14-15.

Bill #15 Approval of A.S. Financial Policies with Amendments — passed

The A.S. president is an "authorized signer on all A.S. accounts" and has final determination of all other authorized signers, according to amendments made to the A.S. Financial Policies and Procedures 1989-90 manual. The A.S. president can now review the list of people authorized to sign A.S. accounts to make sure no unauthorized persons have access to funds. The bill was authored by James Siojo and passed unanimously.

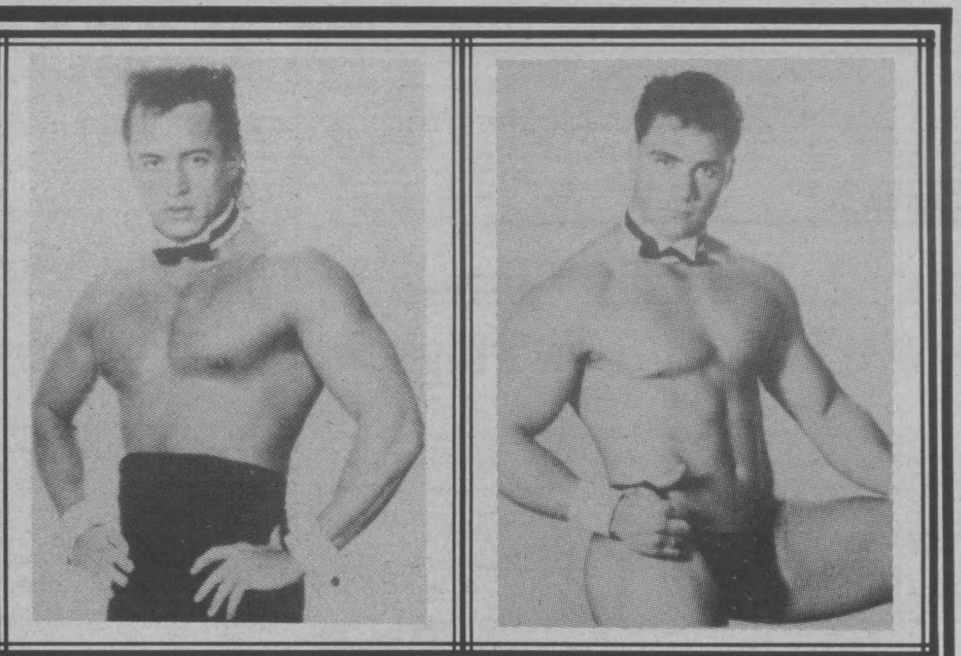
In other business:

A.S. Program Board Deputy Commissioner Jim Scott was approved as new Program Board commissioner, and a search for a new deputy commissioner was authorized.

Off-campus Rep Kurt Ebner was approved as First Pro-Tempore of the 1989-90 A.S. Leg Council, and Off-campus Rep Rob Fetterman was voted in as Second Pro-Tempore.

Steve Lehan was approved in a split vote as A.S. Attorney General, with four A.S. Reps voting against A.S. President Mike Stowers' appointment and two abstentions.

The following appointments were made by unanimous vote: A.S. Constitution & Bylaws Chair: Karen Kraus A.S. Elections Chair: Nicole Nicoladis **Campus administrative positions:** Animal Care Facility: Darren Weiner Academic Computing: Lynda Poe and John Pennebaker Campus Elections: Shawnie Ochoa Ombudsman Advisory: Shannon Willis Program Review: Randy Banchik Physical Planning Committee: Ed Mercado and Torre Chisholm **Academic Senate positions:** Academic Freedom: Rene Cortez American History and Institutions: Linda Valter Faculty Welfare: Ed Wu Undergraduate Courses: Claudia Franzwa



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Pace, in any form, can be hard to find. Sometimes we think we have it by withdrawing into ourselves, our home or our family. But peace that denies tension is no real peace. When Episcopalians turn to one another on Sundays and "share the peace," we are embracing life and all the contradictions and loose ends that go with it. We are saying that we want God to bring love and healing to the world through us. And when we come to the altar, we do not expect to leave with the passive peace of self-satisfaction. Instead we take away with us the peace of God that builds our faith and vision in the midst of confusion and sends us out to work for justice. Join us—share the strength of this Peace that sends us "into the world, rejoicing in the power of the spirit."

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Via Nexus Opinion

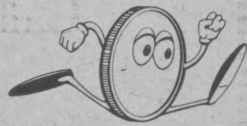


FORUM

Continued from p.1
The forum, which will begin at noon and is scheduled to continue until about 3:00, will feature speeches by Dean of Students Leslie Lawson and Mark Chaconas, liaison to Supervisor Bill Wallace. Representatives from the Community Service Organization, I.V. Recreation and Parks District, campus emergency vehicles and the I.V. Foot Patrol will attend the event.

"A lot of us have heard the issues before, but haven't had the opportunity to hash them out in a productive forum environment," A.S. intern Dirk Bernhardt said.

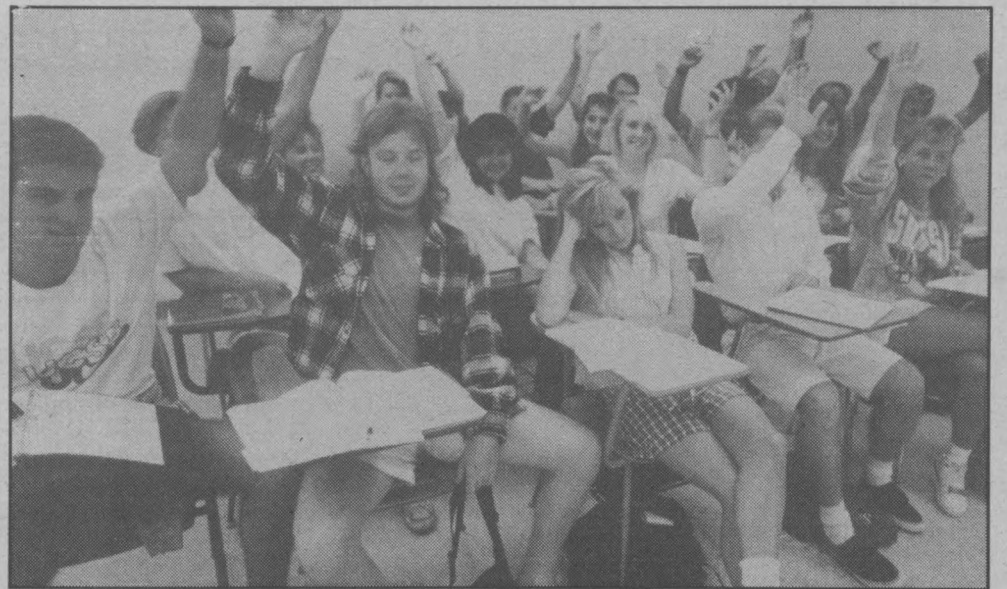
According to Bayewitch, the forum, which will be mediated by Sojourner Kincaid-Rolle from I.V. Mediation, will begin with introductory speeches by representatives from the different groups, and will be followed by a question and answer period with members of the public.



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GENEVIEVE FIELD/Daily Nexus

Overcrowded English classes have become the norm at UCSB.

ENGLISH

Continued from p.1
requires," he said.

Sprecher, who said he is in complete agreement with the Executive Committee proposal, believes the proposed restructuring would only be to the benefit of the undergraduate.

"I don't think that three quarters of freshman english are for the best educa-

tional interests of the students," Sprecher said. "We can provide a high-quality two-course lower-division program (instead)," he added.

Sprecher disagreed with the assertion that encouraging students to take english courses at community colleges will lower their overall writing abilities. "(Students) are still going to be required to write for six other upper-division courses," he said of the current six-course writing requirement.

Extensive freshman english training "is both not necessary, and not the best investment of time by the student," Sprecher added.

Program in Composition Chair Sheridan Blau disagreed, saying the review given to his department gave "insufficient appreciation" to the writing program.

An external review of the

Writing Program departments, common to each department on campus and held approximately every five years, found last January "that the Writing Program was technically strong," but had little administrative support, Blau said.

PIE was another department program that received little praise in the January review. Ferrar said Sprecher's endorsement of the proposal is "motivated almost exclusively by economy and orderliness."

The request to eliminate PIE "is not malevolent, just very organizational, but very educational," Ferrar said.

Sprecher said the proposed increase of 2,000 graduate students at UCSB by 2001, as dictated by the UCSB Academic Plan, had no influence on his desire to staff the courses with T.A.s.

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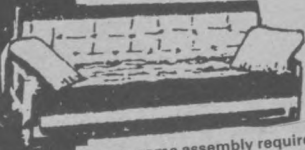
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November 2, 1989
February 20, 1990

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BURN: Rocket Launch Goes Boom

Continued from p.1
 ever accomplished without setbacks," Bennett said. He referred to AMROC co-founder George Koopman, who died in a July, 1989, auto accident. "George Koopman always believed that you went out and did your best and let the world see your mistakes."

"This is the early days of the commercial space program, and what happened today was not the last mishap," Bennett said.

One of the members of the press that were gathered asked Bennett "what is George (Koopman) saying today?"

"George is only saying one thing and that's 'press on,'" Bennett answered,

provoking another outpouring of applause.

"It's a setback, there is just no doubt about it; but you have to separate the success or failure on an individual test (such as the failed attempt), and the validity of the concept as a whole," Bennett said. "Actually the plans in event of a successful flight aren't that much different than what we will do now," he explained.

Stuart Krieger, AMROC Chairman of the Board, said he would "have to view this as a success because we're pretty sure it's a single-point mechanical failure."

"I've seen very few aerospace development tests that went as smoothly as this

one," Krieger said.

Krieger, whose son is a UCSB graduate, has seen plenty of programs in development in his 67 years in the aerospace industry. He was one of the original engineers on Northrop's flying wing, now used in the high-tech B-2 bomber.

Janet Bonder, a consultant hired by AMROC to inform the press, said before the launch, "We've only got one shot at this. If it doesn't work out... it wouldn't be good going for a young company like (AMROC)." The weather was clear, and Bonder said "We can't blame it on the weather today; I heard there was one little cloud over San Diego."

ROCKET

Continued from p.1
 required to start combustion, the rocket fuel can only be handled with rigorous safety precautions.

Liquid fuel is considered safe in comparison to solid fuel. These motors are normally fueled by combining hydrogen and oxygen, then igniting the combination. But liquid hydrogen is highly flammable when brought into contact with atmospheric oxygen and must be handled with caution.

The hybrid rocket uses a solid fuel, polybutadiene, which looks, smells, and acts like synthetic rubber. Under normal circumstances, the fuel will only burn like an automobile tire. Only when liquid oxygen is applied under pres-

sure does the fuel burn as rocket fuel. Manufacturing a hybrid fuel rocket is simplified by the safety of the fuel; the motors manufactured so far have been built in a light industrial building in downtown Camarillo.

Another advantage of the hybrid motor over solid propellant engines is that combustion products are less environmentally harmful.

Solid fuel rockets leave a trail that may include hydrochloric acid, aluminum oxide, ammonium, and hydrazine. Another constant danger is the possibility of highly toxic, non-combusted solids being distributed into the atmosphere.

When the rocket is ignited, liquid oxygen is applied under pressure, using a pressurized helium blow-down system. Prior to igni-

tion the helium is stored in high pressure tanks, along with a small percentage of hydrogen, and passes through a catalytic heating process. Future plans call for the installation of a helium pump to produce the pressure, which would allow storage of the helium in inexpensive low pressure tanks.

The hybrid rocket motor was originally developed by the military, but it lost out to the high-performance solid fuel motors. However, some engineers, including Bevin McKinney, one of the three founders of AMROC, continued to work on hybrids. In 1985, AMROC began to experiment with hybrid motors, and over the last four years has done over 150 test firings of hybrid rockets. Design and construction of the current motor was initiated nine months ago.

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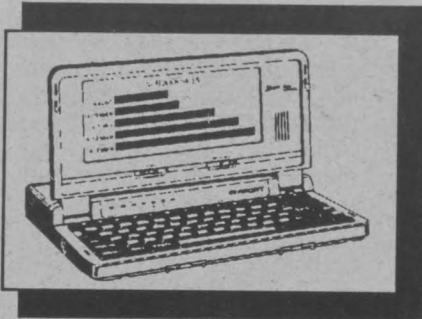
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MINISPORT

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Opinion

"I am your boyfriend. If you don't marry me, I will put you in jail"
 Prince William, 6, to a classmate

IT'S OK PAPA.....IT WILL GIVE US SOMETHING TO DO WHILE WE WAIT FOR THE CROWD TO DIE DOWN



"I disapprove of what you say, but I will defend to the death your right to say it."
 — Voltaire

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BY GARRY TRUDEAU

Decisions: Fight Drugs

Matthew Cryer

A loaded question — what does war do? Among other inanities it tends towards mass life destruction. Hmmm. What are we now calling our current love affair — referring to Drugs, of course? A WAR WAR WAR. I wonder occasionally if war has ever solved a situation. I stop myself though — dumb question.

An impressive media byte, this "War on Drugs," don't you agree? Buy hey! America needs a war dammit.

I wish I were a Columbian drug Cartillian. Perpetuating mayhem and chaos despite the hot breath of American military equipment throwaways blowing on my palatial verandas has always had an intrigue. Random terrorism is normally reserved for Top Secret games. We suburbanites can only wet dream of such behavior.

If I were Georgie, with my extensive secret and foreign service experience, doing what a president does, I'd launch a full scale assault on the entire country. Who knows, maybe our military might actually succeed. After I had entrained the general public with media disinformation, two important issues would arrest my attention. First and foremost, we must arrive at an acceptable codename. The press would never forgive us if we did not provide a suitably enticing headline. Secondly, I would insist that as many civilians be killed as possible — we've got a reputation to keep you know.

It is also essential that more than a few thousand of our men croak. Matter of fact, it's probably more important than either of the two points above. Who can honestly provide a reason for all of those boys to exist. If the military was their option it's difficult to justify their existence. Oops sorry, I suppose that's

transhuma

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Acting on the Problem in

Dirk Bernhardt

I went to my friends' party two weekends ago, where there were two kegs, almost gone, and where there were only about 25 people, all intent on altering their states. Buzz levels and voice levels were soaring.

I had come by myself.

As I entered the party I wondered what it was that compelled these people to speak/yell so boisterously. Each with a high-capacity beer-holder (such as Tupperware storage containers) held in front of them, my friends were talking about experiences like almost falling off Del Playa cliffs, how it was uncool of cops to bust them for walking down crowded streets with their pants down, and how cool vs. uncool that oil rig looks at sunset.

My own Sparkletts bottle filled, I moved away from the ailing second keg. A friend, talking with someone I'd never seen before, yelled at me from a yard away: "Hey man! Come 'ere! Meet a good friend o' mine. Dirk, this is Kilgore."

"Good to meet you," I said.

"Yeah, you too. Hey, you know, those guys are such assholes!" blah, blah, blah, yakity-yak-yak. Check this out: I'm ridin' away from the liquor store on my skate. Lotsa brew. I swerve out into the middle of the street, and I hear these horns all over the place. I'm thinkin' 'Fuck off,' right? But then my buzz gets harshed by these red and blue lights and sirens..."

The emphatic stranger, whose name hadn't even registered in my mind, had grasped my arm and was beginning to shake it.

"I swerve over to the side to let the noise go by, but it's a cop car and it swerves over, too, and stops behind me. Both guys hop out and ask me if I've been drinkin.' I say 'Whatthefuck-

The Reader's Voice

Good Work

Editor, Daily Nexus:

Dear friends of Arts and Lectures and the Women's Center:

After having attended most of last year's series "Poverty in the United States," I want to congratulate you (and in your name all the other departments and individuals that I do not know of and have taken part in the organization of this series) for your sustained commitment to help with the needs of your times.

As an international and graduate student I came to the United States three years ago with a lot of misconceptions about your country and your people. Listening to some (unfortunately I missed two) of the guest speakers in the above mentioned series has been one of the most didactic experiences I have been exposed to. Nevertheless, the most striking fact was that the major part of the local audience was in my same condition: ignorant and confused.

It gives lots of mendous impact t the younger gener and I wish you the continue contribu to the education community.

Anti-

Editor, Daily Ne Why is it that th this world are so tion Rescue is a gr dedicated to savin babies, not terrori individuals who their duffs, while babies are slaught ish males and fema responsibility fo please, don't give argument about th

Drugs or Help the Earth's Poor

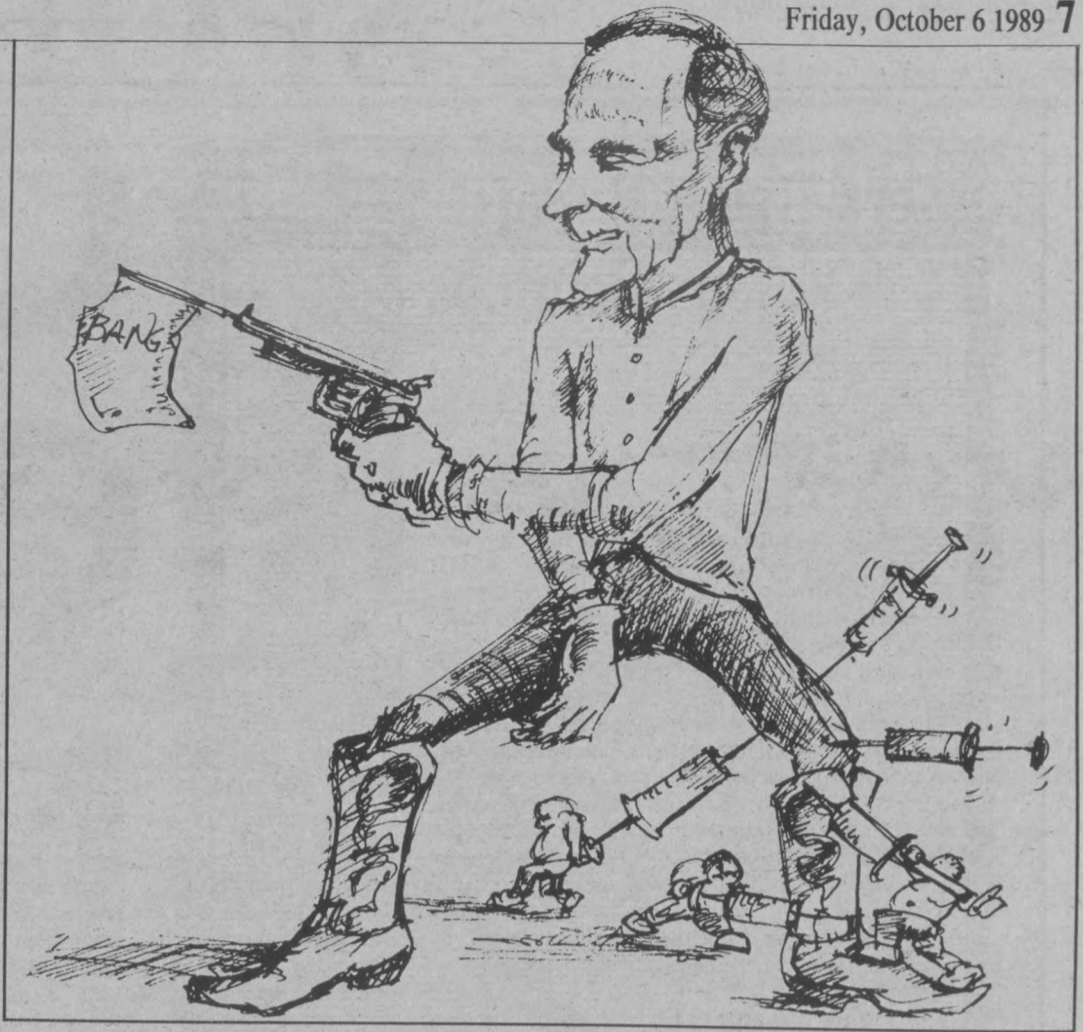
...inshumane.
Does anybody have any grandiose plans for what the hell crack users, particularly the healthy ghetto dwellers, are supposed to do instead of the rock. Let's see, they can sit on their butts, they can hang out on the corner, or they can embrace white culture lovingly a little over 10 years after their enslaved ancestors were freed." Apparently, users are blind to the vanishing existence available for the impoverished. If they would only stop using and selling.

I've an idea, though. The CIA should put together a huge lab, funded by drug smuggling to this country, and begin production of iceed crack. Apparently Hawaii has a new smokeable amphetamine derivative, ICE, that makes crack feel like a caffeine black beauty and requires a horrific babbling and shuddering movement. Furthermore, the Columbians are now packaging heroin and crack together ... Is the edge you know? I say mix the mixes and stop worrying about crime and gun fights. These cracks will last about a week. Then we can raise the ghetto and let Trump build condos and corner mini malls. After a year or so all of the highly involved blue collar whites, particularly those in the lovely suburbs of Brooklyn, will be able to recognize their lost territory.

On a less humane level, the LA Times ran an article recently detailing the JFK Memorial hospital in Kenya. Without a doubt this institution is at one with dys-mal — an abject failure. The natives avoid the towering dump like our government avoids taoist no action. The money that actually does arrive is meted out in a typically corrupt scheme — not a surprise by most counts. Apparently the western idealism of the 1960s didn't quite work. However, please don't count this as an indictment of this attempt. At least the attempt was made.

The development of the southern hemisphere of our planet is one of the most pressing issues to consider. The Japanese, Americanese and Russianese, well maybe not the Russianese they have their own problems, now must assume the role of parental money trees. Avarice says, "Let's loan these folks and their ilk a few bills." Loans? I guess I'm an economic naive but it seems that these countries don't need loans, we/they need to be given the money. Most children don't take loans out from their parents for food, clothing, and shelter when young — that's ridiculous. Give it to them! "No No No that could never work!" scream the bankers and other money mongers. "How tragic this uneducated fool. Does he not understand the ways and means of the economic infrastructure is a global community. We must kick them before they've begun: profit reigns."

Frightening I say.
When compared to the trillions of dollars spent on missiles, which don't exactly have large profit margins, I agree, we certainly can't afford to give away 30 or 40 billion (The 1990 military budget, for those of you unfamiliar, is a reduced 305 billion bucks. That is approximately \$1220 per person, that is counting 250,000,000 Americans per year in this country or four times the per capita (yearly) income of a family in Bangladesh.) Don't you feel safe? This idea, however, is about as probable as disbanding the military, legalizing drugs and the releasing of complete data concerning radiation poisoning and chemical toxins world around. An addendum to the last statement: I do support a minor, a mere ten billion or so, budgetary allotment to keep all of our young men in service. God knows we don't need two million military spunks walking around with nobody telling them what to do.



Of course, even this uneducated fool is not so naive as to ignore the difficulty the task inherently possesses. Obviously, a large scale conscious effort to eliminate the worthless populations on earth...oh excuse me, I mean, develop these lands and peoples with strong foci on maintaining cultural integrity and basic care like water, food, inoculations, and shelter must occur. Also, avoidance of impractical western

stupidity and of the currently ubiquitous corruption might help. It will take a grand effort, but what else have we to do?
The above defies popularity and must fail miserably. Oh well! Above all, kids, don't believe your elders when "they" tell you that human sacrifice to the goddogs has ended.
Matthew Cryer is a senior Biopsychology major

Man in the Mirror: Community Forum Talks About I.V.

evergaveyouthatidea.' So they give me this tricky test and I laugh about it and I fail it. They ask me for my ID and I give 'em the wrong one — the one that sometimes doesn't work, you know — so guess what they do! They fucking bust me for fake ID and minor in possession! Can you believe that shit?"

The stranger was now rattling away at me both physically and mentally. So, growing intolerant, I chugged. But the stranger kept rambling.

"And then! Like a week later, I'm walkin' down Sabado, totally shitfaced, right?"

"Wait," I interrupted. "Is this another cop story?"

"Well, it's about the time I'm walkin' down Sabado..." I broke the stranger's hold on my arm and fled. I was at a party and did not want to hear anymore about anyone's gripes. Why did he want to tell me this? I drank more and instinctively headed back toward the keg. The crowd was that way. Maybe I would hear something funny.

As I approached the ever-lightening keg, my friends were still debating the artistic dilemma of the oil rig's shimmering industrial lights against the steel pastels of the cloudless sunset, and what Kurt Vonnegut would say about it. But just before I got to the keg I noticed a few guys rattling, tilting, and cussing it. To everyone's dismay, the guys proclaimed the keg dead.

At that point I realized I still had much of my Sparkletts bottle left, and of that portion I found myself giving most away to people who claimed to have known me from grade school. So essentially the beer had not run out, and thus the conversation continued.

About oil rigs, the registrar, and what assholes the cops were.

I figured I'd had enough of these futile discussions that seemed to go nowhere. I left the party with the near-empty Sparkletts bottle and with a bike someone had left unlocked.

Two thoughts jumped into my mind as I hit the street around 1 a.m. First, why does all that shit only come up in social discourse? Isn't there someone else to talk to about it? And second, I'd just nabbed a bike and a Sparkletts container, so now I wouldn't have to walk to school or pay for the Sparkletts bottle that got ripped off from my apartment the previous weekend. And on top of that, it had some brew in it. I would drink it as soon as I got home, I thought.

About two houses away from my apartment, though, a cop-on-bike stopped me for the Sparkletts bottle. It was after 1 a.m. and there was no one else on my road. But I got a ticket for open container and minor in possession. I had to pour the contents of the Sparkletts bottle in the gutter.

I woke up late the next morning and missed my two classes of the day. My roommate woke up late, too. He had had similar reasons. So when we did wake up we talked about the night before. I commented that he must have had a fun night. When I told him about my weird night, he said it sounded like a good party.

Such situations as these will be discussed at the Community Affairs Forum Sunday October 8, in Anisq' Oyo Park. Representatives from various elements of the community

have been invited to speak on a panel, where there will be brief speeches, and a question and answer discussion in an informal environment. Representatives from the Isla Vista Foot Patrol, the Isla Vista Parks and Recreation, CSO, as well as Dean of Students Leslie Lawson and Supervisor Bill Wallace's community liason will sit on the panel.

Dirk Bernhardt is a senior double majoring in political science and Chinese, and is A.S. President Mike Stowers' intern.

Harper's Index

Total number of frequent-flier miles U.S. airlines owe their passengers: 600,000,000,000.

Amount the U.S. Postal Service spent last year to maintain mules to deliver mail in the Grand Canyon: \$100,000.

Percentage of super-market prices that end in the digit 9 or 5: 80.

Weight of the Bridgeport, Conn., woman who killed her husband in July by sitting on him, in pounds: 500



Average number of mail carriers that are bitten by dogs each day: 9.

Grams of saturated fat in 3 ounces of Nature Valley Granola: 11.8.

In 3 ounces of Ben & Jerry's vanilla ice cream: 7.5.

Change, since 1986, in the number of Americans who are dieting: 17,000,000

Estimated total value of the candy distributed last Halloween: \$1,000,000,000

lots of hope to see the impact that your action has in the next generation of U.S. citizens. You are the best in your efforts to contribute in a positive way to the education of the university community.

PATRICIA RAMOS

Anti-Abortion

Daily Nexus: ...is that the Tracy Thompsons of the world are so misinformed? Operation Rescue is a group of people who are dedicated to saving the lives of unborn children. They happen to be peaceful people who are sick of sitting on their hands, while thousands of innocent children are slaughtered every year by selfish men and women who refuse to take responsibility for their actions. And don't give me the smoke screen argument about the poor person who is

raped or incested. Since when does one act of violence justify another? And please, not the other smoke screen argument about the poor children who are unwanted (that could apply to many of us), or the poor babies who are born mentally defective, deformed or disabled? Are you saying people at Devereux school or in wheelchairs at UCSB, are less valuable than you who are supposedly able bodied and mentally sound? And last, what about those brought into poor homes, where parents can't afford to feed them? This is the lamest excuse of all. The majority of students at UCSB can't even relate to a "poor person" experientially. Poverty, believe it or not is not the worst thing that can happen to a person. But, I guess if you have had an abundance all your life, this could appear tragic. However, it isn't. Many successful and lovable people have been born in poverty.

Excuse me Tracy, but a woman does not have a constitutional right to have an abortion. The last I heard, murder is illegal. The "assault" Tracy refers to is

not against women's lives, it's against the lives of unborn babies. She's right, the majority of people in this country do support a woman's right to choose when to have children. They also support a man's right in this area too. However, these rights are in effect before the woman conceives. After conception, it is no longer just her "right." The unborn baby has rights too. It's hard to imagine how an honest person could interpret the constitution as not applying to a baby in a womb. I wish so-called pro-choicers (a strange title, being that babies according to them, have no choice), would stop looking at the abortion issue as a feminist one. It is not. There are many feminists who support "pro-life." In fact, there are more women, by far, involved in the pro-life movement than men.

I've also wondered how many people who hold the same view as Tracy, are up in arms over the killing of whales or experimentation on animals for medical science. How sad, to live in an age where an animal's life is more valuable than an

unborn child's life. A bumper sticker I saw the other day says it well: "Be a hero, save a whale. Save a baby, go to jail."

People involved in "operation rescue" sometimes do go to jail for their dramatic stance. Why should they be forced to go to such extremes as blocking abortion clinics? Because all human life is valuable and to allow abortion to continue is to support a dangerous precedent for future devaluation of human life in other circumstances.

PATTI SPIEGEL

Hey! Got something to say and your roommate won't wake up?

The Daily Nexus opinion section is seeking letters and columns expressing the views of you, The Public. Letters should be between one and two pages, typed, double-spaced, with a name and phone number. The same goes for columns, except they should be three to five pages with year in school and major listed.

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Booters Bring Record to 10-0 Versus Broncos

By Dino Scoppettone
Staff Writer

Guess what? The UCSB women's soccer team won again.

Big surprise there. The Gauchos upped their record to 10-0 last night after trouncing an overmatched Cal Poly Pomona squad 6-0. The shutout of the Broncos (3-5-1) was UCSB's fourth in a row, and the offense, with nine goals in the last two games, is finally beginning to match the defensive production.

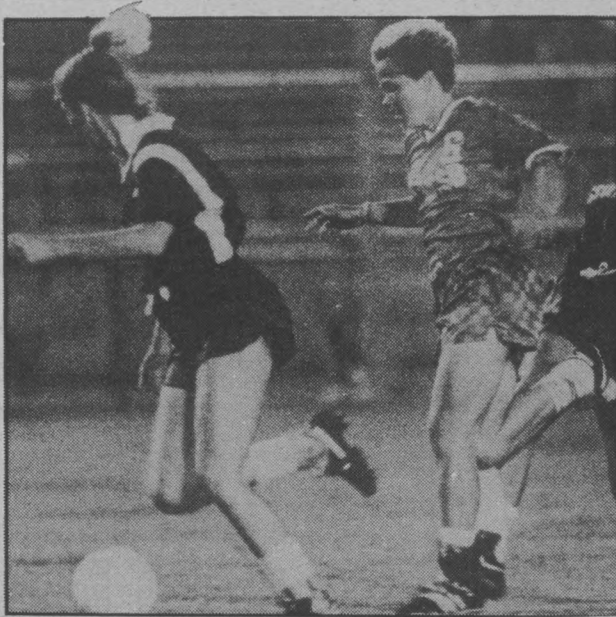
Santa Barbara, intent on deciding the issue early, took the lead just six minutes into the game when midfielder Kiersten Taub scored after a corner kick. Pomona kept it close until Linda Dorn took a pass from Laurie Klein and drilled a shot from five yards out to up the score to 2-0.

"I think the competition was a little inferior but we're finally starting to put the ball away earlier, and that was our problem before," Klein said. "We'd dominate teams but we wouldn't put them away as early, and by putting the ball in the net ... and scoring goals in the first 15 minutes, which we've done our past few games, it takes pressure off of us. Then the other team doesn't believe in themselves."

Klein notched her first goal of the year with four minutes remaining in the half. Taub's pass set up the score, increasing her team-leading assist total to seven.

UCSB didn't slack off in the second half. With just under 30 minutes remaining in the match, fullback Lara Nesbitt scored her first goal of the season on a shot from 20 yards out. Senior forward Dianne Manore picked up the assist.

The Broncos provided living proof that the axiom "When it rains, it pours" is alive and well. With 12 minutes left, Gaucho midfielder Laurie Hill booted a corner kick that conveniently bounced off a Pomona player



DORN TO RUN — UCSB's Linda Dorn and the Gaucho booters pummeled Cal Poly 6-0 last night.

TONY POLLOCK/Daily Nexus

into the goal. Hill got credit for the score.

"Santa Barbara is a class act. We knew that coming in," said Pomona Head Coach Brian Wiesner. "We were just going to play 100 percent, and we played 100 percent. We had our chances."

Gaucho Women's Coach Tad Bobak was encouraged by his team's offensive output.

"We've been working a lot on shooting and focusing a lot on the fact that we have to go with a lot of power forward. (The players) have taken the task into their feet, so to speak, and have been producing goals. We have to stay on this pace. We'll just keep relentlessly coming at the opponent and pounding shots in."

UCSB finishes its five-game homestand this weekend. The Gauchos face Westmont toady at 4:30 at Harder Stadium and play the University of San Francisco Sunday at 11:30.

Bigger, Better Sonoma Hosts Visiting Gridders

By Scott Lawrence
Staff Writer

PROGRESS REPORT

Subject: Gaucho Football

Date: 10/6/89

Record: 2-2

Last Game: 24-21 win over Cal Lutheran

Next Game: 1:30 tomorrow at Sonoma State

Status: Developing ground game, effective pass attack, weaknesses in pass rushing.

SSU Status: Big, Big on the ground. NorCal Conference Division II. Easily the toughest team on the Gauchos' 1989 slate.

Things never get any easier for UCSB. Seems like every week, the Gauchos are either fighting themselves to up the emotion level and improve, or they're going against a bigger more physical Division II team — or both.

The current item of concern are the Cossacks. They're a beefy bunch perhaps holding a psychological edge over Santa Barbara from last year's last-second, 20-18 win via a 52-yard field goal by Harry Konstantinopoulos.

And even though Konstantinopoulos won't hurt UCSB this time (he's absent on SSU's '89 roster) the Gauchos still have to contend with a 3-1 Cossack squad, whose lone loss was to CS Northridge (Western Football Conference), 15-10. On defense, SSU constantly blitzes its safeties, giving Gaucho starting quarterback Steve Armstrong something to think about.

"We've been simulating those safety blitzes in practice this week," Gaucho Head Coach Rick Candaele said. "You can't prepare for it any other way, so Steve is bruised up a little bit, but he's been responding well."

However, Candaele says practices this week have toned down just a little in comparison to those held in preparation

See SONOMA, p.10

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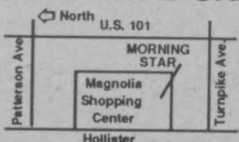


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ALEXANDER THE GREAT



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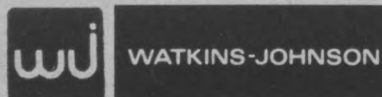
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Poloists Need Big Time Wins in Crucial Weekend

By Craig Wong
Staff Writer

As the Big West water polo season begins to kick into full swing, UC Santa Barbara is hoping that the preseason previews of parity within the conference are accurate.

Last Friday's loss to UOP in Stockton dropped the Gauchos to 1-1 in the league, making today's 4 p.m. match up at Campus Pool against #3 Pepperdine (10-3 overall, 0-0 in the Big West) crucial to UCSB's

chances to gain an NCAA bid.

The 9th-ranked Gauchos are 7-6 overall and are coming up off a 8-6 loss to #5 Stanford in Palo Alto last Sunday. It has been a year where Santa Barbara has not been able to put together a complete contest as flashes of brilliance have been overshadowed by lapses of concentration.

"Part of it is to realize that these errors really hurt," Head Coach Pete Snyder said. "As the game goes on, going into the fourth quarter, we have to be in position

to win games. Even in the first quarter, if we make those errors, it'll hurt us down the road in any quarter."

The Gauchos will be tested by a lethal Wave offense coached by Olympian Terry Schroeder which handled UCSB 17-9 at the Air Force Tournament two weeks ago. Senior Sasha Poljak's 41 goals leads the Pepperdine attack and he's backed up by sophomore Geoffrey Clark who has chipped in with 36. In the nets is sophomore Wells Guthrie who has a 7.82 go-

als against average in 11 games.

"A lot of teams consider us an offensive oriented team," Waves Assistant Coach Dave Meyer said. "We look to counterattack because of our good team speed. We have two of the stronger two-meter men in college water polo (in Poljak and Clark). We're fortunate that not all teams have two dominant two-meter men."

On Saturday, UCSB will get its rematch with UOP as the Tigers make a 1:30 p.m. visit to Campus Pool. By vir-

tue of Pacific's win over the Gauchos, the Tigers moved up into a tie for 9th in the nation with Santa Barbara.

Water Works

The Gauchos have been paced by a two-man duo, Jason Likins and Carl Swan ... Likins leads the team in goals with 23 goals and 20 assists ... Swan is second on the team with 20 goals and 10 assists. Ed Weldon and Ryan Todd have 17 and 15 goals respectively. Mike Day's goals against average is at 7.71 ... The real bad news: Pete Zamoyski, a Second Team All Big West last year, is out for the season most likely with a semi-dislocation of his shoulder. Surgery is likely in a couple of weeks ... Top recruit J.P. Lalonde will red-shirt this year.

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UC SANTA BARBARA GAUCHOS

Serious Homestand Starts for Men Booters: UNLV, Fullerton to Visit

When you think of the UNLV-UCSB rivalry, most people envision a jam-packed Thunderdome, not an empty Harder Stadium. But the Gaucho-Rebel men's soccer rivalry may be more heated than basketball's and is certainly more competitive considering that going into tonight's 7:30 game, the all-time series record stands at 7-6-4 in favor of Vegas (6-5, 1-1 in the Big West).

What added some serious fuel to the rivalry's fire was UNLV's 1988 NCAA play-off selection by a committee headed by Rebel Head

Coach Barry Barto despite Santa Barbara having better records both overall and in the Big West.

"To an extent it's a grudge match because of what happened last year," UCSB Head Coach Andy Kuenzli said.

But the game is not going to be solely based on pride, as the two teams have something else to fight over: possession of second place in the conference standings.

With league leader Fresno State off to a 2-0 start (which includes a road victory over Las Vegas), a loss would drop the Gauchos

(3-4-1, 1-0) a full game behind the Bulldogs in the Big West standings.

"We're going out on the field to win just to be able to compete with that number one spot which gives you an automatic bid to the NCAAs," Kuenzli said.

Tonight's game will be the first time Santa Barbara fans can see junior Mark Johnson, who had previously played left fullback, at the sweeper position. Johnson replaced starter Curtis Jimerson before last Sunday's 3-1 victory at Irvine.

"For the first time this year I felt like I was able to

SOCCER STANDINGS

	BIG WEST				OVERALL			
	W	L	T	Pct	W	L	T	Pct
Fresno	2	0	0	1.000	8	1	2	.818
UCSB	1	0	0	1.000	3	4	1	.438
UNLV	1	1	0	.500	6	5	0	.545
CSUF	0	1	1	.250	6	2	1	.722
SJSU	0	1	1	.250	4	5	1	.450
UC Irvine	0	1	0	.000	3	6	1	.350

organize the defense," Johnson said. "Now since I'm right in the center, I can see much more so therefore I can direct the defense which is working out a little bit better."

After Vegas, Santa Barbara faces another tough league foe in Cal State Fullerton — another team the Gauchos traditionally don't

See VEGAS, p.10

CSUF Ready to Rumble After Upset

UCSB to Face New, Improved Titans and 11-9 Aztecs in Weekend Roadtrip

By Steve Czaban
Staff Writer

When the Cal State Fullerton women's volleyball team upset Big West rival San Diego State last Tuesday (15-12, 15-9, 16-18, 15-11) the big loser wasn't the Aztecs who provided Fullerton its first conference victory in over a year and a half.

It was the Gauchos who, at the time, were minding their own business miles away in Santa Barbara.

Now not only will the Titans (6-7, 1-3) be riding a swell of confidence following the upset, but the Aztecs (11-9, 1-3) ought to be extra-ornery in the wake of such a defeat.

Guess which two teams the Gauchos hit the road to

face this weekend? CSUF on Friday and SDSU Saturday.

"Fullerton is coming off one of their career matches (the Titans out-blocked and out-dug the Aztecs 37-6 and 124-44) and they have nothing to lose," UCSB Head Coach Kathy Gregory said. "And after losing to Fullerton, (San Diego State) is going to work much harder and really be ready to play. It's bad for us."

But Gregory's squad (12-6, 3-2, ranked #13 in the nation) has been consistently good so far this year, and if the Gauchos can win both matches this weekend, they will have beaten every team in the Big West's 'lower tier' (everybody below powers Hawaii, Long Beach and UOP) except Cal Poly SLO.

Not so long ago, a match against the Titans was considered almost a bye. No more. First year Coach Jim Huffman already has snapped CSUF's embarrassing 34 game conference losing streak, and in the process has garnered respect for the once timid Titans.

"We used to beat them really bad, but this has been an eye-opener for all of us," admitted Gaucho middle blocker Nancy Young. "We've haven't been taking practice lightly this week, and we're looking at Fullerton as one of the toughest teams in the league."

San Diego State has always been a Gaucho nemesis, and although they are, "up and down, and not as good as last year" according to Gregory, chances are UCSB will catch them in

"up" mode.

The Aztec's record can be deceiving as well, considering they played two games against top ranked Hawaii and a pair against defending champion Texas in a span of seven days last week. SDSU took Hawaii to five games in one match and was swept in the next, but did manage to split a pair with the Longhorns in Texas.

For the Gauchos, the main concern is playing at

See V-BALL, p.10



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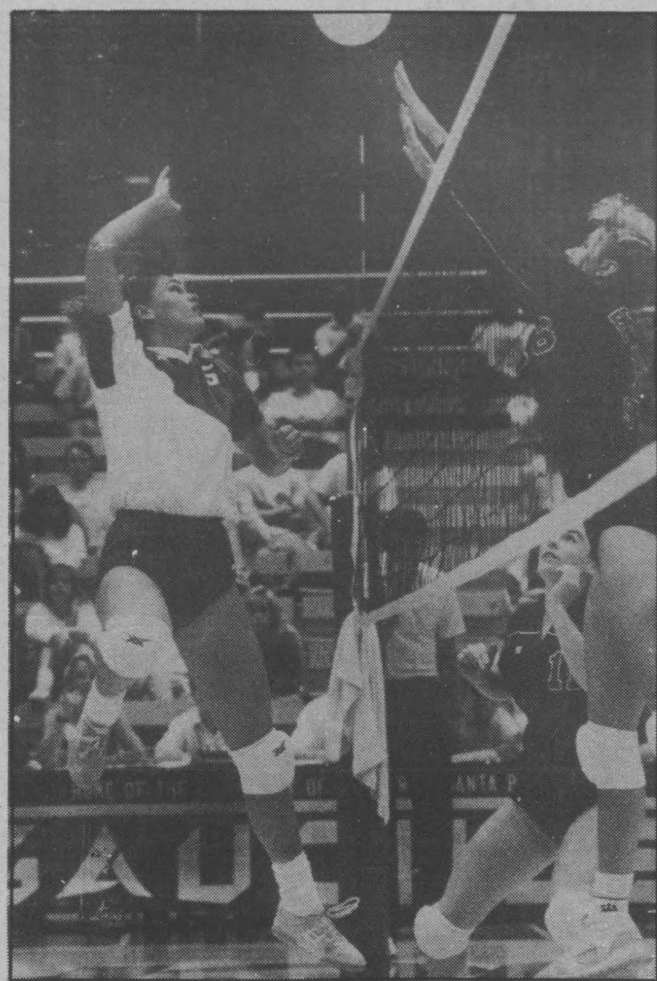
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VBALL

Continued from p.9

the solid level they've been at for most of the year. Outside hitters Maria Reyes (217 kills, .217 hitting percentage, 232 digs) and Kristie Ryan (234 kills, .193, 163 digs) have been offensive stalwarts for the Gauchos, but Gregory has been tinkering with new blocking schemes this week in practice. Freshman MB Tina Van Loon (36 blocks, 42 kills, .227) may start this weekend to bolster the front line, as well as 6-2 freshman hitter Julie Pitois (53 kills, .144, 25 blocks). "The more you don't play, the less you improve and I don't want this to be a wasted year for Tina and Julie," Gregory explained.

DINKS AND VOLLEYS:
Gregory is going for her 350th win this weekend. Her current career coaching record stands at 348-192 ... the Gauchos have beaten SDSU once already this season in 4 games in an early season tournament ... Young on the Aztec's loss of All-American outside hitter Jackie Mendez; "She had that killer serve and they're not as strong without her, but they're still competitive"



YOUNG GUNS - UCSB middle blocker Nancy Young leads the spikers with 52 blocks.

MUTSUYA TAKENAGA/Daily Nexus

VEGAS

Continued from p.9

get along with. In last year's game at Fullerton which the Gauchos lost 3-2 in overtime, several warnings were issued and two players, forward Chris John and Johnson, were ejected.

"Since I've been here we've played Fullerton four times and I've only been able to play them twice," Johnson said. "So every time we play Fullerton something's going up ... so it should be a pretty interesting game."

The Titans (6-2-1, 0-1-1) are coming off a tight 2-1 loss at the hands of Fresno. Gametime is 2:00 p.m. Sunday at Harder.

BOOTER BABBLE:
The Rebels main strength is their speed especially at the midfield spots ... Doug Borgel, a junior forward, is the Rebel's leading scorer with 8 goals and five assists (21 points). Jeff Wale has five Vegas scores followed by defender Cliff Odle who registered a hat trick in UNLV's 6-0 dismantling of San Jose State ... Fullerton's top scorer is Rick Biedler who has amassed 4 goals and 1 assist.

SONOMA

Continued from p.8 for the pivotal Cal Lutheran game.

"It's very hard to practice at a pitch like last week, as physical as we were, and coming off the physical game that we had. But we try to keep the physical part of it in, just not as much. There's also a tendency to

not be as emotionally up and we're trying to guard against that."

The senior Armstrong takes north 279 yards in two games (23-47), including three touchdowns and 2 interceptions. Brian Fleming leads the team in receiving (17 grabs, 251 yards, 2 TDs), with Johnny Ace (19, 221, 3) second and Khaled Shahbo (24, 201, 3) third. Shahbo also enters the weekend tied

for second on the Gauchos' all-time reception list with Wade Wallace at 73. Chuy Ornales is tops on the squad in rushing with 45 carries for 192 yards, including two TDs.

The Cossacks run a single-back offense and they run it often, collecting 933 yards so far (233 per game) this season — something for the Gaucho defense to think about. "We passed last week's

test," said Gaucho Defensive Coordinator Steve Retzlaff. "The question now is can we follow it up? We're just going to go out and play real hard and try to avoid another San Francisco State, but I don't anticipate that. After Cal Lutheran, I think the defense is getting close. I think effort-wise, we're certainly where we want to be and technique-wise, I think we're real close."

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Friday, Oct. 6
I.V. Theater
7, 9, 11 p.m. \$3
Spon. by Sigma Phi Epsilon

Who Framed ROGER RABBIT
Sunday, Oct. 8
5-7-9 pm
I.V. Theater \$3.00
Kids under 12 \$1.50
Spons. by A.S. Call-line

AD INFORMATION

CLASSIFIED ADS CAN BE PLACED UNDER STORKE TOWER Room 1041 8 a.m.-5 p.m., Monday through Friday. PRICE IS \$3.65 for 3 lines (per day), 33 spaces per line, 50 cents each line thereafter.
No phone ins. Ad must be accompanied by payment.
BOLD FACE TYPE is 60 center per line (or any part of a line).

Due to a paste-up error, the Calendar was very mixed from Wednesday on.

Friday, Oct. 6
All day — Activities Calendar submission deadline for Oct. 23 issue at the Campus Activities Center, UCen 3151
9 am-5 pm — Arts & Lectures ticket office open Monday-Friday. Tickets for weekend performances on sale now.
10 am-4 pm — Buy your tickets for all Ventura Theater events (Stray Cats, Bodeans & lots more) at the A.S. ticket office
4-5 pm — Fencing club practice, no experience necessary, Rob GYM 2120

Saturday, Oct. 7
10 am-noon — Tai Chi Chuan Club holds free intro to Tai Chi warm ups. Class every Sat. morn, fundamentals and demonstrations, Free, Ocean Cliff Park, 6700 blk DP, I.V., 685-5277
1 pm — Gaming Society at UCSB weekly meeting, roleplaying, wargames, boardgames, etc... and the weirdest bunch o' people you've ever met, Engr I, 1132, Free
8 pm — A&L presents Joseph Swenson, violin and Jeffrey Kahane, piano in Campbell Hall, UCSB students \$12/10/8

Sunday, Oct. 8
12-3 pm — Isla Vista Community Forum: Who Are the People in Your Neighborhood? Find out in I.V. discussion, Anis'q Oyo park, free
7:30 pm — Russian Club welcome reception for new and returning students, anyone interested welcome! Russian House, 6583 Cordoba Rd, I.V., free
8, 10:30 pm — Spike Lee's "Do the Right Thing" in Campbell Hall, UCSB students \$3

DAILY CROSSWORD PUZZLE
Edited by Trude Michel Jaffe

ACROSS
1 Display serendipity
5 Syn., oft
8 Muddies
13 Potpourri
14 Shade of green
15 Rye fungus
16 Digger's ditty
19 Kitchen caustic
20 Infer finish
21 Lined up, in London
22 Combo instruments
23 Jardiniere
24 — of the Hesperides
26 Drollery
30 Aspersion
31 Men-only do
34 Old German coin
35 Towels off
37 Get wrong
38 Alamagordo's county
39 Of the birds
40 Stew ingredients
42 Fateful time
43 Crone
45 Pockets a bill
47 Summer, along the Seine
48 Puerto —
49 Loosen bootstrings
52 And wife, in law: Abbr.
53 Churl
56 Victor Herbert operetta
59 Member of the family
60 Pesky insect
61 Ollie's slim sidekick
62 Brands
63 Had a snack
64 Heavy weights

DOWN
1 Pheasant, for one
2 "Now — me down..."

3 River to the Mediterranean
4 Stipple
5 Chasse, for one
6 Favorable margins
7 Gram. gender
8 "— Paradise": Gary Cooper movie
9 Process of adjustment
10 Snow block house
11 Ore store
12 Boer burg
14 Bringers of bad luck
17 Enthusiasm
18 Drink for Caesar
22 Superpatriotic
24 Wide awake and alert
25 Schoolchild
27 — France
28 Harvest goddess

29 Rialto signs
30 Mop
32 "You — There"
33 Be drawn to
36 Seizes
41 Safe
44 Intersect
46 Airport hail
48 Send money
49 Word on a coin

50 Anna Sten role
51 Chance
53 Sergeant Snorkel's dog
54 — impasse
55 Bleacher creatures
57 Singer Sumac
58 Tampa's time

ANSWER TO PREVIOUS PUZZLE:

C	A	T	O	P	R	O	M	C	O	P	Y				
A	R	U	M	T	H	E	M	E	H	I	R	E			
S	I	R	S	R	I	A	N	T	A	L	E	S			
H	A	N	K	W	I	L	L	I	A	M	S				
				H	B	O		A	T	A					
L	E	S	L	I	E	P	A	T	T	E	R	N	S		
E	L	M	A	N	F	A	I	R	C	E	P				
H	O	A	G	Y	C	A	R	M	I	C	H	A	E	L	
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P	E	N	S	S	A	R	D	T	A	O	S				

10/6/89

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Digital computers, which serve as the brains for everything from automatic teller machines to compact disc players, stand as a wonder of twentieth century technology.

With their compact size and high speed they continue to set the standard for computational power as judged by sheer number crunching ability.

But for all of their electronic wizardry, digital computers remain essentially glorified calculators, limited to following sets of mathematical instructions which must be pre-set by human operators.

Because of this, the human brain can still do things even the most powerful super computer cannot - like think and learn.

For more than 30 years, correcting this discrepancy has been the goal of a branch of science called artificial intelligence. And though previous efforts to put human brain power on a silicon chip have failed, new multi-disciplinary approaches combining biology and computer science may usher in an era of truly intelligent computers.

It is to this end that researchers from more than a dozen fields at the University of Southern California have come together at the Centers for Neural Engineering and Neural, Informational and Biological Sciences to study different aspects of the brain and computer. Among the areas they are investigating is an evolving form of computer known as a neural network.

Unlike digital computers, which are sequential in nature and approach problems one step at a time, neural networks attack a problem as a whole.

Neural nets take their name from the complex network of nearly 10 billion cells in the human brain and, like the brain, are comprised of many simple interconnected processors.

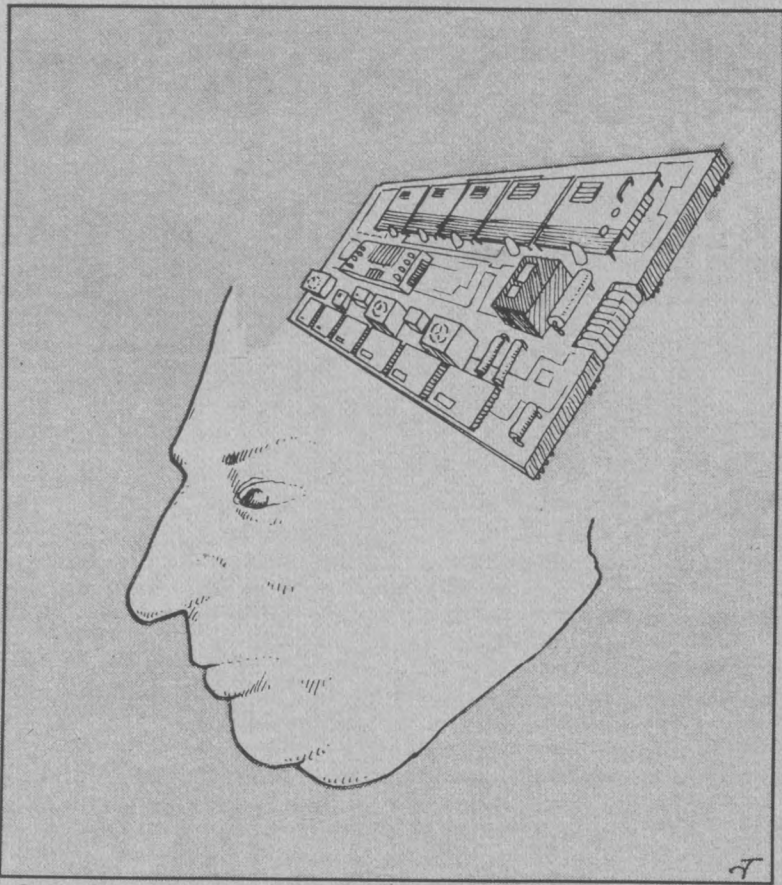
Rather than being programmed like standard computers, neural nets are "trained" to perform specific tasks. In addition, neural nets deal with problems statistically: Instead of coming up with an exact answer, a neural net will deliver an "educated guess" for any given query.

One company developing neural net applications has created an assembly line inspection system for identifying defective products. Rather than giving the system a list of rules to tell good products from defective ones, operators of the system "show" the computer repeated examples of each.

By modifying interconnections between the neural net's many processors or "brain cells," the computer's output can be made to correspond to its input in a desirable way - in this instance to reject defective products.

"What we define as learning in human beings is the ability to modify our behavior based on experience," according to Dr.

Neural Networks



Combining Biology and Computer Science, Neural Nets May Challenge the Human Brain

By Ben Sullivan, Staff Writer

George Becky, chair of USC's computer science department. "In that sense you can say that neural networks learn rather than being programmed."

Although such an approach makes them unsuited for fields requiring precise mathematical answers, they are gaining acceptance in areas that depend on such "fuzzy" logic.

"The standard, serial machines ... that we use for word processing and number crunching, they really do that spectacularly well," according to Dr. William McClure, administrative director for USC's Center for Neural, Informational and Biological Sciences. "To expect a neural network computer to do it better seems unreasonable."

"(However,) there are certain things that neural network computers may do much better, and I suspect what we're going to find is that computers will broaden out to a number of different kinds of computing."

Among the things that neural nets appear better suited for is image recognition. McClure describes a black and white picture he has of a dalmatian dog walking down a sun-dappled sidewalk on a fall afternoon with leaves falling in the foreground from trees above.

"The only thing you can see that dog by are the spots on the white background of his skin," McClure said. "You look at it and it looks kind of funny and after a while you notice there's a dog there. It takes maybe a second or so. To my knowledge a (digital)

computer has never found that dog."

Although computers are millions of times faster than the brain on computational types of problems, in situations like image recognition the brain remains superior. It is hoped that neural nets can be made as equally superior to digital computers for the problem types they are being trained to solve. Neural nets "are very good at evaluating a lot of data that's relatively soft," McClure said. "They are able to computerize the kinds of things we usually think of as being subjective."

Few people believe that neural nets will ever replace digital computers for jobs requiring high speed number crunching, but as neural net research progresses, different kinds of computers will likely emerge, combining the best of both digital and neural technology, McClure said.

In addition to the practical applications neural nets offer, they have provided some insights into how the human brain works.

They have also served as a bridge for many scientific disciplines to interact with each other, as witnessed by USC's Center for Neural, Informational and Biological Sciences.

"We cover the whole range in NIBS, with molecular biology at one extreme through cellular neurobiology systems, neuroscience, behavioral neuroscience, computer science, cognitive science - the study of the human mind - and the study of language," explained NIBS director Richard Thompson.

"This is a very recent development - the growing merging of interests of neuroscientists and computer scientists, because for many years they worked pretty much in isolation of one another," Thompson said.

Perhaps the ultimate goal of neural net research is to one day create a computer comparable to the human brain. With current technology such a task would be impossible, but considering the rate at which digital computers have progressed since their introduction in the 1940s, it is not entirely inconceivable.

"The moment we have the tools available we would (build such a computer)," McClure said. "Certainly what's going to happen is we'll make better and better models. It may take several hundred years before we can do one that's even close, but I promise you we're going to be trying."

McClure said that current knowledge of the brain far exceeds science's ability to translate it into a computer, but at some point science may catch up.

"I think we will, we should and we'll try. I see no moral or ethical reason not to do that."

Science In the U.S.A., and Welcome to It

Welcome to the Daily Nexus Science Page.

It's a new feature for us and one which is long overdue.

No use beating around the bush, let's get to the heart of the issue right now.

It seems that wherever you turn these days someone is complaining about American students failing in the fields of science.

"Don't you know," they say, "America is seventeenth in the world when it comes to science. Tied with Thailand."

Oh yeah, well how come people from across the globe consistently come to America to get a science education? Are people knocking on Thailand's door, begging to study engineering there? Or France, or England, or any number of other countries whose students score higher than the U.S.? Hmmm? Well are they?

Yes, American students are scoring low. Embarrassingly low. So low in fact that as a nation we should be wearing a deep blush. Instead, we wait for something to change the steady decline in our intellectual prowess.

What appears to be the problem, aside from the country's shamefully low funding for high school science education, is that science is no longer considered a sexy subject.

For a country which brought us the first manned moon landing, video recorders, the only widely accepted treatment for AIDS and silly putty, we are receiving a royal whomping from countries most people can't even place on a map.

Any field, be it literature, history, language or the social sciences, depends on public support to make significant advancements. If the interest isn't there then the work won't be either.

And in America today, people simply aren't giving science the attention it demands.

That's where this whole page comes into play. With the Daily Nexus Science Page, which from this point forth will appear regularly on Fridays, the Nexus is trying to do its part to increase interest in science among the students, faculty and staff at UCSB.

From this week's issue on neural network computers, which one day may challenge the human brain as the dominant minds on our planet, to future issues on AIDS, obsessive-compulsive disorders, illegal drugs, computer highways and genetic engineering, we're giving our all to get America back where it belongs: On the top of the global science heap.

So look for it. Read it. Talk about it.

Science is one of those kooky things that tends to decline without attention. Ignore it and it will only get worse. So take a stand. Say to yourself, "I'm proud to be an American and I'm going to read the Daily Nexus Science Page."

It's the least you can do. As an American, that is.

Researchers Set New Low Temperature Record, Again

Scientists have pushed down temperatures to a record low of only two billionths of a degree above absolute zero, the Low Temperature Laboratory at the Helsinki University of Technology said Thursday.

Absolute zero, minus 459.67 Fahrenheit, is unattainable according to the laws of physics, scientists say.

Two billionths of a degree corresponds to two nanokelvins (NK). The previous record of 30 NK, which is in the Guinness Book of World Records, was set by the same laboratory in 1984, said Professor Olli Lounasmaa, head of the research team.

"The new record was not an aim in itself but a side product of the research we are engaged in. Our main aim is to study the state of matter as close to absolute zero as possible," Lounasmaa said.

The experiment was conducted in a nuclear demagnetization device by Dr. Pertti Hakonen from the Helsinki University of Technology and Dr. Shi Yin from Michigan State University.

President Bush to Undergo Surgery for Cyst on Finger

President George Bush will undergo surgery to remove a cyst from the middle finger of his right hand, the White House said Thursday. Bush vowed to keep working despite "this awesome burden."

The president, making light of the minor surgery, said there was no need to make "a federal case out of it." Asked to raise the finger for a photo, he replied "Don't tempt me."

Presidential spokesman Marlin Fitzwater said Bush would undergo the procedure - expected to take about an hour - today at Walter Reed Army Medical Center.

The cyst, on the end of his finger just below the nail, has troubled the president for about three years. "It simply has reached the point where it has gotten larger and noticeable," Fitzwater said.

He said the president, who is left-handed, would be given a local anesthetic called a digital nerve block and would remain awake throughout the procedure.

"The doctors' clinical observation indicates that the cyst is benign. There will of course be a routine pathological examination of the tissue," Fitzwater said.

Alfalfa Crop Faces Threat from 'Cholesterol' Virus

A University of California, Riverside scientist says a soil fungus threatening the state's \$660.8 million alfalfa crop is not limited by temperatures hotter than 86 degrees Fahrenheit, as previously thought.

Studies showing that high temperatures do not kill the fungus indicate that it could spread to the San Joaquin Valley, the state's agricultural heartland, Donald C. Erwin, a UC Riverside plant pathologist said Thursday.

"There is an urgent need to select and breed persistent varieties (of alfalfa) in California, because resistance will be the most effective control of the disease," Erwin said.

The disease, Verticillium wilt, invades the plants' water-bearing membranes the way cholesterol plugs human blood vessels, Erwin said. The plants eventually die from lack of water.

Alfalfa is the sixth-most important crop to the state's \$16 billion farm economy. Alfalfa hay is typically used for dairy and feed cattle and the state's market for alfalfa extends across the nation.

(AP)