Trains, trestles and terminals

by MICHAEL EWEN

According to Bayne, the computer will determine the speed of the train, the distance it has to travel and the possible alternate routes the train could take in order to keep to schedule.

It will be up to the student to design a program that tells the computer what to do if a certain situation arises, but the computer will actually control the train once it is underway. The computer will take the feedback information and give out data in the form of electrical stimulations to the train’s engine and the truck’s switches.

There are many ways in which computers are used to control an environment once they are programmed.

For example, Bayne said, “a college student may want the classrooms maintained at a certain comfortable temperature during the day. But the temperature can fluctuate with the opening of doors, closing of windows, the actual size of the room and the changing outside environment. However, if a computer is programmed to analyze these changing conditions and can control the air cooling system within the classrooms, then the desired results can be achieved. In other words, the actual environment at any given time tells the computer what to do. The computer takes this feedback data and either activates or deactivates the air conditioning system.”

“This project allows undergraduate students a chance to realize that there is much more to computer design and application than just the classical approach taught here at Cal Poly. Many students don’t get this opportunity until they enroll in a graduate program,” said the professor.

Bayne, a handful of students and a computer science technician have worked nearly three years on designing, constructing and polishing the project. The entire project should be completed and functional by fall quarter, 1977, Bayne said.

Funds have come from the Computer Science Department and a small federal mini-grant.

“...I would estimate that the project has cost in the neighborhood of $4,000 considering all the small parts, accessories and more pieces of equipment that had to be purchased. So, as you can see, this isn’t your average HO train set,” Bayne said.

Bayne hopes to be teaching an experimental class in computer science sometime next year dealing specifically with scientific computer design and applications.

"...Even though the HO train set may seem rather out-of-place within the computer science building, it will dramatize an important aspect of computer utilization," said Bayne. "In the real world, a prog. writer won’t have to make an HO train meet a schedule around a figure-eight layout, but he may have to program a computer to run an auto-pilot of a jumbo jet or run a cardiac-care unit for a hospitalized patient. The potential for the scientific application of computers is out there and hopefully this project will spark some interest.”
functions normally associated with bathrooms. But the system wasn't dry a day. a.m. philosophy lecture.
Responding admirably (so I thought) to the situation, I packed my shaving gear and my toothbrush, jumped in the car and headed for the gym over at school.

What this anecdote illustrates is how much we take for granted the luxuriant use of water. Why worry about it now turn on the faucet, and there it is. Having to do without it for while makes one stop and think. I'm reminded of the recent program in San Francisco which calls for a 25 percent reduction in water conservation. Preceding that was the Marin County drought, when water was conserved by limiting daily usage to a maximum of 49 gallons per person. Water was metered and those exceeding their maximum of 49 gallons per person. Water was shut off for about four hours they were made to do some sort of constructive work, or, from what I understand, the four hours they chose to impose the mini-drought were from 8 a.m. to 11 a.m.

I stumbled out of bed and into the bathroom, reached gratefully for the sink's hot water knob and got nothing but a rush of dry air that would have done the Texas Panhandle justice. I needed a shower and a shave. I needed to brush my teeth and attend to various other tasks.

R.O.T.C. revival

One sign that the volunteer Army may not be such an impossible dream after all is the slow-but-steady revival of the ROTC (Reserves Officers Training Corps) program at colleges.

Army ROTC enrollment has risen from a low of 55,000 in 1973 to 55,000 in 1976, with another increase expected in the fall of 1977. That doesn't compare with the 177,000 enrolled 10 years ago, but at least the trend is in the right direction.

There's no mystery about what happened to ROTC. It became the handy scapegoat, the easy target, for students who opposed the Vietnam War. Some schools actually disbanded their ROTC units under pressure from students and faculty members.

Now the attitude toward ROTC is changing. The war is over, and the image of college makes an ROTC program more attractive.

Some purists would argue, no doubt, that military service has no place in a civilian institution of higher learning. But, in fact, it seems that training future officers in such schools is good for the country because it has a beneficial effect on the strictly military view of the world.

The Army now gets six times as many officers from ROTC courses (and instructors) has improved markedly since the late 1960s.

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Petition for more photo labs

By KIM LACROUZU
Daily Republic Writer

Art Department's faculty members have petitioned for more photo labs, saying that the current facilities are inadequate to meet the needs of the students.

The petition states, "There are only six enlargers capable of handling 12 students at any one time. Enlarger must be shared by two students at all times." Despite this, the facilities are available to the Architecture Department. In the new architecture building, there is a darkroom consisting of 12 enlargers capable of handling 32 students at any one time. Allen Pierce, lab technician in the Architecture Department's photography lab, said, "The demand by the students is not enough facilities." There are 144 students using this lab once a week every quarter, from 8 a.m. to 6 p.m. everyday. Pierce said.

Bob Amsby, a professor in architecture and environmental design, said, "There are 50 students in the Architecture Department. I teach three architecture photography classes offered. Amsby has three classes that are not enough facilities."

Thomas Johnson, a student in the Architecture Department, said, "The demand by the students for the photography darkroom facilities far exceeds the supply." Amsby feels the architecture photography lab, due to its specialized nature, should not be shared with the architecture students. Amsby said, "The architecture photography classes, have a different philosophy when it comes to teaching and designing than the architecture students."

Amsby also said the architectural photography lab is different than the Architecture Department's photography classes because they are technically oriented toward architectural presentation techniques.

"The situation to the Art Department is that we have the poorest facilities to carry out the job it's an inefficient use of stable resources." Amsby said.

"The justifications that the architecture department, has for the facility are real," Johnson said, "But how come the Art Department has the poorest facilities to carry out the job it's an inefficient use of stable resources." Amsby said.

"The architectural presentation lab, is not enough facilities," Amsby said. "There are 144 students using this lab once a week every quarter, from 8 a.m. to 6 p.m. everyday. Pierce said.

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Welcome to Cal Poly Radio, KCPR, now in its eighth season. Since its inception in 1969, KCPR has grown from 1.8 watts in the early years to 2000 watts of the finest fidelity stereo in San Luis Obispo, a feat achieved less than a year ago. This guide is to help you get acquainted with the wide range of public affairs, news, and musical programming we have to offer. If you have any ideas regarding our programming, feel free to contact myself or our Program Director, Peter Hames, at 544-8460, or write KCPR, Cal Poly San Luis Obispo, CA. 93407. I hope you enjoy this quarter's programming.

Mark Rial
KCPR General Manager
## Program Log

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wed</td>
<td>12:00</td>
<td><strong>Contemporary Music</strong> With Larry Robinson</td>
</tr>
<tr>
<td></td>
<td>1:00</td>
<td><strong>Bluegrass</strong> With Mark Wurff</td>
</tr>
<tr>
<td></td>
<td>2:55</td>
<td><strong>Heartbeat</strong> With Rob Eaton</td>
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<tr>
<td></td>
<td>6:00</td>
<td><strong>Rock Music</strong> With Peter Stewart</td>
</tr>
<tr>
<td></td>
<td>7:55</td>
<td><strong>Music</strong> With Wanda Lust</td>
</tr>
<tr>
<td>Thu</td>
<td>12:00</td>
<td><strong>Pacific Concert</strong> With The Captain</td>
</tr>
<tr>
<td></td>
<td>1:00</td>
<td><strong>Pacific Concert</strong> With Phil Edwards</td>
</tr>
<tr>
<td></td>
<td>2:55</td>
<td><strong>Rock and Roll</strong> With The Passengers Of The World</td>
</tr>
<tr>
<td></td>
<td>6:00</td>
<td><strong>Rock Music</strong> With Doug Ambrog</td>
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<tr>
<td></td>
<td>7:55</td>
<td><strong>Music</strong> With Chris Sandys</td>
</tr>
<tr>
<td>Fri</td>
<td>12:00</td>
<td><strong>Concert</strong> With The Captain</td>
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<tr>
<td></td>
<td>1:00</td>
<td><strong>Tahitian</strong> With Frank Thomas</td>
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<tr>
<td></td>
<td>2:55</td>
<td><strong>Reflected</strong> With Wolf</td>
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<tr>
<td></td>
<td>1:00</td>
<td><strong>Rock Music</strong> With Jen Iveson</td>
</tr>
<tr>
<td></td>
<td>2:55</td>
<td><strong>Heartbeat</strong> With Jen Iveson</td>
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<tr>
<td></td>
<td>6:00</td>
<td><strong>Music</strong> With Wanda Lust</td>
</tr>
<tr>
<td>Sat</td>
<td>12:00</td>
<td><strong>Oldies</strong> With Gene Mario</td>
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<tr>
<td></td>
<td>1:00</td>
<td><strong>Music</strong> With Frank Thomas</td>
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<tr>
<td></td>
<td>2:55</td>
<td><strong>Rock Music</strong> With Jen Iveson</td>
</tr>
<tr>
<td></td>
<td>6:00</td>
<td><strong>Music</strong> With Steve Olineman</td>
</tr>
</tbody>
</table>

### Radio

**Dairy Queen**

- **Super burger.**
- **1/4 lb. hamburgers.**
- **1/2 lb. hamburgers.**
- **1/4 lb. hamburgers.**
- **Batzers.**
- **Super batzer.**
- **Chill Dogs.**

**Tastefully Yours**

- 275 Santa Maria Town Center Mall
- 925-2000

**NOMADIC FURNISHINGS**

- 884 Monterey Blvd.
- San Luis Obispo

### International Imports

**The Largest Import Store on the Central Coast**

**Up Your Alley**

Discount Fashion for Women

**Records Tape/Recording Supplies**

- 879 degrees
- 924-0656

**COOLIDGE**

- 74 Mission Street
- 925-8951

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**Hungry?**

It's time for a SUPER Burger from SIZZLER.

**Enjoy It While You're There**
Covering costs on the college paper

April 7, 1977

by CRAIG REEM
Daily Associate Editor

(Edits note: This is the third in a series of stories exploring the financial crisis of Mustang Daily.)

Unlike many college and university newspapers which are subsidized in varying degrees by students and school, Mustang Daily is dependent almost solely on solicited advertising for a balanced budget.

Operating much like a commercial newspaper, the Daily's financial stability depends on advertisements.

In recent years, the Daily's advertising budget has actually reflected more red than black. This imbalance has raised questions about the size of local advertising market and the ability of the Daily's staff to solicit sufficient revenue to keep pace with spiraling production costs.

Clayton Raiff, former West Coast Advertising Manager for the New York Times and acting Mustang Daily Public Manager, is responsible for selling ads for the paper. He also directs advertising students—fellow $51—who help sell ads.

There are some problems with selling ads. One is competition with such local publications as the Telegram-Tribune, Easy Ad and the Central Coast Times.

"The Sun Bulletin is our number one competitor in advertising dollars, not because it serves the same public we serve, but only because we draw from the same Tar Heel Chipher market," Raiff said.

"Ads (advertising rates) are less (than the Telegram-Tribune and Sun Bulletin), but for a considerably less circulation," Raiff explained. "Also, there are certain business establishments that do not participate in student spending like the furniture stores.

For example, Mustang's rate for 46 columns inches in one issue is $99.75. In the Telegram-Tribune and Sun Bulletin, the price is $117.70 and $100.80 respectively.

In selling ads space to advertisers, Raiff said they tell them that Mustang Daily is "a student paper that is distributed on campus with an estimated one out of one-half readers per issue. We're right now, I don't have any real solution. I want everyone—graphics, ASI, journalism, the administration—together and solve this—" Gersten.

base our distribution on one out of one-half times the 6,000 issues.

"We need about 800 inches of advertising per issue (30 per day) for any real operations," Raiff said.

Can Mustang Daily survive its financial crisis?

"As long as we can keep a good product and maintain a good distribution policy," Raiff said, adding that distribution was cut off down town last November. "If you don't have a good distribution, advertisers won't care about selling an ad. If I can't prove I have an audience by shared distribution or paid circulation, it's not worth as much."

"Its strongest points is that it reaches a public that isn't reached in any other way," Raiff said. "The college community, that's our public."

Gersten, director of ASI's Business Affairs, said it is his responsibility to assure that every ASI-solicited group has an audience that is reasonable to compete with other CSUC and SCI}, such as, Academic Senate and University Graphics Systems, Kramer.

Commenting on the financial future of Mustang,

"We're throwing some ideas around. As far as the future goes, we don't know what we're going to do with Mustang. We hope to print next year. I'm optimistic. We have to decide in the next 30 days to operate under a solvent basis for the next 10-20 years, not just on a year-to-year basis. We can't afford to risk Mustang Daily together.

With the use of data collected by journalist Dave Fred Valin, currently working on his senior project, Mustang Daily apparently is unique in its student—advisory board.

The daily newspaper receives about $800—more than the other CSUS System newspapers. In 1976-77 budget is expected to be covered solely by student ads.

The breakdown of student ads, budgets is as follows:

<table>
<thead>
<tr>
<th>Source of Income</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Advertising</td>
<td>$800.00</td>
</tr>
</tbody>
</table>

49ers' Monte Clark may be fired

SAN FRANCISCO (AP) — Coach Monte Clark of the San Francisco 49ers has been fired by team owner and National Football League commissioner Pete Rozelle. Rozelle reported Wednesday.

Dave Wilt, sports editor of the newspaper, wrote that former 49ers head coach Monte Clark is a long-time coach at the University of California as well as the Stanford University. Rozelle's replacement is expected to be announced Thursday afternoon.

John Raabos was the successful predecessor to Clark. No other officials were immediately available for comment.

Clark, in his first year as an NFL head coach, guided the Denver Broncos Coach Dave Wilt, sports editor of the newspaper, wrote that former 49ers head coach Monte Clark is a long-time coach at the University of California as well as the Stanford University. Rozelle's replacement is expected to be announced Thursday afternoon.

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Where they'll be, what they'll do

Kevin Mickelson then replaced McGraw on the mound for Long Beach, only to face Friesen and have try fly out to right field to end the disastrous sixth inning.

With only three outs to go before having a perfect game, Bauer had Barry Leontia fly out to left field before Desertigia was walked to load the bases. He then retired Gary Pelletier and Zouros in order to preserve his shutout.

Head coach Birdy Harr was pleased with his pitching against Long Beach. He emphasized that going for the perfect game was not what Bauer was going for, but just the experience and development. "But the beginning of the year is all about the development," Harr said.

Kevin was the best ball player I've ever had in Long Beach," Harr said. "He has a really good, quick arm and great control."

The Mustangs finish out their season strong with the win, which improves their record to 22-1 overall and 11-1 in conference play. They will head into the final stretch of the season with their sights set on a national championship, as they are currently ranked No. 1 in the nation.

The tracksters will be off this week, but the women's softball team will have a busy schedule. They will play a doubleheader against Cal State Bakersfield this weekend and then head to Los Angeles for a series against Cal State Northridge next week.

On the softball front, Poly's pitching has been nothing short of amazing. They have only allowed 18 runs in their last three games, including a perfect game against Long Beach.

The Mustangs are currently ranked No. 4 in the nation in softball, and they will have a tough test against Cal State Northridge next week. However, Poly is confident in their ability to come out victorious.

Unfortunately, the men's tennis team was unable to secure a win against Cal Poly. They lost the match 4-0, with all four singles matches going to three sets.

The women's tennis team did fare better, winning the match 7-0. They will be looking to continue their winning streak against Cal State Northridge next week.

The women's volleyball team continues to dominate the conference. They have won their last five matches and are currently ranked No. 1 in the nation.

The Mustangs are looking forward to the upcoming matches and are ready to take on the challenge. They know that they will have to work hard to come out on top, but they are confident in their ability to do so.

The Mustangs will play their final home game of the season next week, and fans are encouraged to come out and support their team. They will be facing off against Cal State Northridge, and it is sure to be a nail-biter.

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**News Shorts**

### International

**Lebanon battles continue**

BEIRUT, Lebanon (AP)—Christian militiamen and Palestinian guerrillas fought set-to battle today for small hills in southern Lebanon near the Israeli border.

It was the third day of a Palestinian counteroffensive to regain the bases from which they raided and shelled Israeli forces along the Lebanon-Israeli civil war.

Guerrillas and their leftist Lebanese Muslim allies said they regained Christian tanks and militiamen from the crossed town of Taibe, three miles north of the border, and a nearby hill named Rub Tallazim.

### National

**Flood sweeps Appalachia**

UNDATED (AP)—Residents of flood-battered Appalachian states were up sandbagging levees today in a race with rampaging creeks and rivers that drove thousands from their homes.

At least 32 people were reported killed in the destructive wind and rain storm that spewed out of the Mississippi Gulf toward the Northeast and swollen waterways in the Southeast.

**Proposal for food-stamps**

WASHINGTON (AP)—President Carter says Congress can change his proposals for revamping the federal food-stamp program by no more than $100 million or he will veto the plan.

Opposition to Carter's plan is likely from urban Democrats who want higher benefits for recipients.

> "Group mind" and Watergate

BERKELEY (AP)—The Watergate tape recordings of former White House aide Richard Nixon reveal the work of a "group mind" functioning with dazzling efficiency, two University of California researchers report.

Key passages of the tape transcripts were probed for eight months by Charlotte Linde, a visiting professor of linguistics, and U.C. Berkeley, and Joseph Copas, an associate professor of computer sciences at UCLA.

### State

**Increase in prep academics**

SACRAMENTO (AP)—Whatever critics may say about California high school students, they apparently aren't shying away from academic classes in favor of auto shop and cooking.

A state study released Tuesday said classes in all academic areas gained in enrollments last year, and virtually all vocational classes declined.

The study covered 1,794 schools in 7th through 12th grades in 1975-76.

**Hancock student big winner**

SAN FRANCISCO (AP)—An 18-year-old student from the Hancock High School has been paid a record $16,895 for her grand champion steer at the Junior Grand National Livestock Exposition.

Pattie Gann, of Suisun City, and a student at Hancock College, sold the steer for $15.50 a pound to Sunol rancher Carl Zwissig. The payment was nearly four times the old record of $4.25 per pound.

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**Homecoming Committee meeting**

An organizational meeting for the 1977-78 Homecoming Committee will be held Monday, April 11, at 5 p.m. at the U.C. Rm. 216.

**Telephone booth stuff**

The Annual Telephone Booth Stalling Contest will be held at 11 a.m. today in the University Union Plaza. There is a $3 entry fee for the event and prizes will be given.

**Music at activity hour**

The Cal Poly Concert Band and Dixieland band will present a University Hour Concert at 11 a.m. today in the Cal Poly Theatre. Admission is free.

**Movie**

The Cal Poly Penguins Motorcycle Club will present a movie in the Chumash Auditorium at 7 and 9 p.m. tonight. Admission is 75 cents.

**Mathematical Sciences**

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**Country western dance**

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**Orientation meeting**

All students interested in volunteering as a tour for young people 6-12 are welcome to attend an orientation meeting tonight at 7 o'clock in Rm 319 of the U.U. admission is free.

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**Potted Easter Lilies**

$5.00
Available at the Campus Store and Poly Plant Shop (at the O.H. unit)

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**News Shorts**

**Outing to Bear Valley**

A snow camping trip to Bear Valley is planned for the weekend by the Outings Committee. Departure is from 4 to 8 p.m. on Saturday at the Carbon Canyon Road. The cost of the trip is $12 for food and gas.

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Recreation majors, Natural Resources Majors and all others interested in starting a recreation, promenade packs, recreation and conservation activities are invited to attend a planning meeting at 11 a.m. today, Rm. 318 in the B.A. E. building.

**Library tours**

The University Library will be conducting tours for all interested students and others from Monday, April 10, to Friday, April 15. Three daily tours have been scheduled at 11 a.m., 2 p.m. and 4 p.m. Tour participants will meet in the Library lobby.

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**Swimmers in Speedo suits have the best times.**

Speedos would like to show you a good time this summer. We've designed a line of brilliant new print swimsuits in a wide range of skin-tight, stretch, long-wearing, fast-drying and melt-resistant designs. More good news! Three record-breaking and two U.S. Olympic Swim Team have worn Speedo suits than any other make.

We want everybody who wears one of Speedo's new print swimsuits to go out and have a real good time.

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**Student Health Services**

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**Spring is here! Butterflies and flowers and suntans and bikinis and...**

For $17.00 per quarter a Cal Poly Health Card will give you added medical protection at Cal Poly...

**Services**

<table>
<thead>
<tr>
<th>Without Plan</th>
<th>With Plan</th>
</tr>
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<tbody>
<tr>
<td>Campus Hospital</td>
<td>$45</td>
</tr>
<tr>
<td>Prepayment Clinics</td>
<td>$17.50</td>
</tr>
<tr>
<td>Oral Health Program</td>
<td>$10</td>
</tr>
<tr>
<td>Emergency Visit: 4-hour</td>
<td>$3</td>
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<tr>
<td>Pharmacy Charges</td>
<td>$5</td>
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</tbody>
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**Prepaid**

- Part

Last day to buy Health Card is April 15th

Available at the Foundation Cashes

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**NewSCOPE**

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**NEWSCOPE**

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**OUTING TO BEAR VALLEY**

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**STUDENT DISCOUNTS**

V.W. Porsche Audi Datsun Toyota

2308 Broad S.L.O. 544-8806

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**VEIN OF AUTO SUPER**

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**Bellos Sport Shop**

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**Since 1940**

Same Location—Same Ownership

886 MONTEREY STREET

SAN LUIS OBISPO 543-2177

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**Easter Lilies**

---

**Student Health Services**

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**Last day to buy Health Card is April 15th**

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**Homecoming Committee meeting**

An organizational meeting for the 1977-78 Homecoming Committee will be held Monday, April 11, at 5 p.m. at the U.C. Rm. 216.

**Telephone booth stuff**

The Annual Telephone Booth Stalling Contest will be held at 11 a.m. today in the University Union Plaza. There is a $3 entry fee for the event and prizes will be given.

**Music at activity hour**

The Cal Poly Concert Band and Dixieland band will present a University Hour Concert at 11 a.m. today in the Cal Poly Theatre. Admission is free.

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