Poly perfects tomato power
Researchers dispose of agricultural waste and create lucrative method for producing energy

By Carolyn Davall
Staff Writer

Waste disposal is an ever-present problem in our society, and agricultural waste is no exception. If waste can be used constructively, then part of the disposal problem is solved. New research at Cal Poly is turning waste into energy and solving several problems in the process.

"One of the biggest issues the food processing industry faces is what to do with waste," said Douglas Williams, associate professor of agriculture engineering.

Tomatoes unfit for the market shelves are being used to generate methane gas that will eventually replace natural gas in tomato processing plants.

Using tomatoes to generate methane is of great value to growers and packers as it provides an easy, money-saving disposal method for the excess tomatoes. Normally, packers must pay $1 per ton and truck fuel costs to haul away the bad tomatoes. If they use the tomato-generating system to replace the usage of natural gas for heating needs, the bad tomatoes produce $3 per ton in energy costs.

A small scale model of the process is set up in the food processing lab. It consists of:

- Ground tomatoes mixed equal-
- ly with water and put into a large flask immersed in warm water. Then, a little sewage sludge is added to the mixture because it contains the bacteria needed to digest the tomato mixture. The bacteria convert the sugars to methane.
- The temperature of the water around the flask must be kept at 35 degrees Celsius (about 102 degrees Fahrenheit). Tomato puree is added daily through a top feeder tube to produce a continuous flow of methane.
- "A tomato is 94 percent water and 6 percent solid. The solids give the methane, but the bacteria work best in the
- slurry," said Williams. The skin and seeds don't digest as well for gas produc-
- tion, but machines are avail-
- able to screen those parts out.

"It's basically tomato juice," Williams said. "Some people would like to test the seeds and skin for their (animal) feed value."

The process takes about 20 days to decompose enough to produce methane, but once the process begins the gas bubbles spontaneously. The mixture is kept sealed, not because it's potentially smelly, but because the bacteria work in an anaerobic -- without oxygen -- environment.

See TOMATOES, back page

Nutritional info to hit Dining Hall

Kristie Kuechler
Staff Writer

Dining Hall eaters who wonder what is in the food they are being served don't need to wonder anymore.

Foundation Food Services, the Health Center and nutrition peer educators are working together to provide students with practical nutritional information. Every Wednesday from 5 to 6:30 p.m., a booth staffed by nutrition educators will be set up in the Dining Hall.

The nutrition educators are upper-division dietetic majors who have taken courses to become more informed about all aspects of nutrition. They are there to help the student choose the right foods.

See NUTRITION, page 4

Copter club members can't get a rise out of their experiment in Long Beach

By Joan M. Halpin
Staff Writer

"Some things are really neat, and some things are a bear to get through," said Scott Larwood, assistant project manager of the Cal Poly American Helicopter Society.

Members of the club packed up their human-powered helicopter this weekend and transported it to the McDonnell Douglas aircraft hangar in Long Beach for testing.

The club members were hoping the craft would be the world's first documented human-powered helicopter to lift off the ground, but it didn't happen, at least not Saturday. Sunday's results were not available at press time.

For a successful flight, the human-powered helicopter must have hovered for at least one minute and it must have been at least 3 meters off the ground. Also, the pilot must have sustained a non-rotation position.

Despite the helicopter's failure, students plan to work out the related problems and to add on more gadgets to the craft when their finances permit.

A continuous drive system will eventually be added so the pilot won't have to rewind the string every time after pedaling, said club vice president Kyle Naydo, an aeronautical engineering major.

Although about $30,000 in materials have already been donated to the club's project, other resources are needed. See COPTER, page 4

Fitness center could be open next quarter

By Lynne Hasselman
Staff Writer

The University Union soon could be receiving its new fitness center to take the place of the bowling alley next quarter.

The plans for the project were approved by the state fire marshal on Nov. 6 and are now going to the Chancellor's Office for final approval.

"It took a long time to get through the fire marshal's office, but he determined that we did not need to include sprinklers, which would have been an expensive addition," said Ann Nebiker, the Union recreation chairman on the Union Executive Committee. "We expect the project to go through on schedule now."

The design and conception of the project were done by architecture and construction management students.

"There was a lot of student and staff input on the project design," said Nebiker. "There is a real need for a facility like this on campus and I think it will get a lot of use by the students."

Roger Conway, executive director of ASI, said, "Since students did almost all the work, with the exception of the heating and electricity, we cut about $75,000-$80,000 from our budget."

The estimated cost of the remodeling is more than $198,000 and will be used to renovate three areas.

"There will be a small office complex that will house the Rec Sports coordinator and student staff," said Conway. "The second area will be used for weights training and there will also be a dance studio to be used for aikido, cheerleading and the martial arts."

See DAILY, page 4

Love shopping

Looking for a date? Maybe the grocery store should be your next stop — you just might get warmed up in front foods.

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Kim Holweg, managing editor
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Dawn Jackson, lifestyle editor
Darrell Mihra, photo editor
Kevin Cannon, arts photo editor
Vegy Young, general manager
Patrick O'Sullivan, faculty adviser

**Editorial**

We may be slow, but at least we're trying

Our campus may soon be released from the enslaving grip of CAR registration. The Student Senate on Wednesday discussed a resolution asking that touch-tone telephone registration become a reality by winter 1989. It can't come too soon for us.

The new system would let students know their exact schedule during the course of a simple phone call; not just the schedule they requested, but the schedule they received with class "filled to capacity" stamped everywhere. But under the new system this anony­mous issue and therefore could be con­cealed and thus tie up the phone lines. The solution to this is simple. When students call in, they just need to be ready with a couple of classes to substitute in case one of their selections is full. In truth, this is all just a dream now. This simple-sounding system is novel for some CSU campuses. But for the CSU campus most well-known for its scientific and engineering activity, this simplicity is high-tech stuff. At least it's a dream that our ASI is making a high priority.

And we think their priorities, for once, are right on target for the student body of this university.

---

**Letters to the editor**

Facts smack of information lack

Editor:

I would like to respond to Helen San­jumie's letter which appeared Nov. 16. Opinions can only be as strong as the facts, reasoning and logic behind them. Unfortu­nately, our newspaper has not included an unfounded opinion that someone is convinced by Sanjumie's statements. Almost every argument she states is unfounded and therefore could be considered as an unfounded opinion that someone is convinced by Sanjumie's statements. Almost every argument she states is unfounded.

But it also presents a problem: students may not be prepared to suddenly change their schedule when they call, and thus tie up the phone lines. The solution to this is simple. When students call in, they just need to be ready with a couple of classes to substitute in case one of their selections is full.

In truth, this is all just a dream now. This simple-sounding system is novel for some CSU campuses. But for the CSU campus most well-known for its scientific and engineering activity, this simplicity is high-tech stuff. At least it's a dream that our ASI is making a high priority.

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**Convoluted logic wounds integrity**

Editor:

The already questionable integrity of the Mustang Daily has been further dam­aged by the Nov. 18 Associated Press article "Ignorance about geography grows.

Asking students to locate country, world's third most populous, has been further dam­aged by the Nov. 18 Associated Press article "Ignorance about geography grows." Asking students to locate country, world's third most populous country and the United States' trade partner, they therefore didn't know where Canada was.

Not that some of Mr. Puzo's general implications, but I do call his methodology into question. Granted, the college student today is lacking in some geographical knowledge (though I would bet Mr. Puzo his job that more than 39 percent of them can find Japan on a map, contrary to his findings), but this is no cause for irrelevance, either in the teaching profession, or more importantly, in the newspaper industry (be it profes­sional or a neophyte such as the Daily).

For Puzo and his brilliant students at Fullerton such as Ed Merkel to succumb to, and perpetuate, this type of sensa­tionism is pathetic. But the Mustang Daily has been further dam­aged by the Nov. 18 Associated Press article "Ignorance about geography grows."

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**BLOOM COUNTY**

By Berke Breathed

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**The crow's nest**

Earl C. Ruby II

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**TOPS on the FU what they decide to pay for**

The University Union was constructed with revenues generated from student fees in much the same way that revenues for the new rec­reation facility will be generated, although the downpay­ment for the U.U. was made with profits from the bookstore. The U.U. continues to receive this money from students in the form of university union fees that are in­cluded as part of your quarterly registration fee, although these fees are now used to pay for operational expenses rather than building construction.

The U.U. is operated by two committees, the University Union Advisory Board (UUAB) and the Cal Poly Student Union Executive Committee (UCE). The U.U. and the U.E.C. manage operations, for as long as that's how they're supposed to work. The two committees meet several times during the past few years and they continue to undergo changes, so try to start when they're doing at any one moment is rather difficult.

Parsons says the U.U. is a constant service to the students, while other parts are expected to operate on a break-even, make-a-little-or-lose-a-little basis.

When I say service, I mean something that's not expected to make a profit. The information desk is a good example of something where service is nice, but is not essential. If it wasn't operated as a service, you'd have to be charged every time you asked a question.

"I can't answer that until you give me a quarter."

The Galerie is another area of the U.U. that's aimed at a service, although they have been of­fering over the past three years to make it less of a service. In the last year the Galerie cost students almost $60,000. Part of that price tag is the more than $35,000-a-year in salary and benefits which the University Union was charged with paying to the Sandinista government. Denying the U.U. the ability to meet with the Contras about a cease­fire and the government's disregard for international law is a violation of the Lenin Doctrine you will find that Vic Lenin would certainly agree with.

The U.U. boards feel that the Galerie is neces­sary since it brings first-rate art exhibitions to Cal Poly for all students to enjoy. If students wish to enjoy art without paying $60,000 a year, the art area is also supposed to make money, but there haven't been any straightforward figures ever generated to allow anyone to judge.

The state leases the U.U. to the ASI with the express conditions that there will be no break or even break include The Student News. This does not meet Mr. Puzo's (mostly made $3,213 last year), Programming (Jason Smith, John大家), Travel Center (which is leased out but still made $2,478 last year) and the Ticket Office. The Ticket Office is run by the ASI and budgeted at $30,781. The games are also supposed to make money, but there haven't been any straightforward figures ever generated to allow anyone to judge.

Since all food services on campus are controlled by the Foundation, the money from the Burger Bar, Julian's, the Snak Stop and Campus Catering also go to the Foundation, with a small percentage of the gross (a sliding fee) going to the U.U. to pay for the rental fees. I'd love it if I could tell you the exact amount that the Foundation collects from the facilities, but I won't be paying you as much rent."

---

Earl Ruby is KCPB's general manager and a former ASI senator and executive staff member.

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**Mustang Daily**

The newspaper for Poly. Since 1916
State

Officials: AIDS antibody test error-prone and inconsistent

SAN FRANCISCO (AP) — An AIDS antibody test being used by a private clinic is error-prone and incapable of determining whether a person has the virus which can lead to the fatal disease, according to health officials.

A clinic run by Dr. Timothy Sankary offers same-day results of the ELISA antibody test for $49. Most people are told they are free of the HIV virus and are sent away with a "Security Certificate" to offer as assurance to potential sex partners.

The test, however, are told their lab results are inconclusive and that additional testing and counseling at a cost of another $140 will be required.

"This guy gives one test," and a person testing inconclusive "automatically assumes they are positive," Evans said.

California's garlic growers smelling trouble from Japan

GILROY (AP) — Growers in the garlic capitol of the world smell trouble.

Dr. Saiki's Odorless Garlic from Japan looks the same, tastes the same and smells the same as ordinary garlic. But the trademark odor doesn't linger on the breath.

Plans to soon market the odorless garlic in the United States has raised a stink with American growers.

"Garlic loves company. You've got to find people who love it and eat it together. Then, who cares if you have bad breath? You'll all have bad breath together," he said.

Don Christpher, one of the owners of a Gilroy Garlic ranch, agrees.

Nation

Newest shuttle's launch date is months behind schedule

CAPE CANAVERAL, Fla. (AP) — Manufacturing delays and testing problems have slowed delivery of hardware for space shuttle Discovery, and some engineers say NASA could miss its scheduled June 2 launch date by several months.

The biggest setbacks could be the delivery of the primary propulsion units — the three large main liquid-fuel engines and the segments of the solid fuel booster rockets.

"Given those current delivery dates are met, and given that we do our job the way we expect to do it, the June (2) launch is still makeable," said Bob Steck, shuttle launch director at the Kennedy Space Center here.

The booster rocket segments, which originally were due from the Morton Thiokol plant in Utah in December, are to reach here a month late.

Cuoim's undefined intentions muddy Democrats' strategies

WASHINGTON (AP) — Persistent speculation that New York Gov. Mario Cuomo will be a late entry into the presidential race is making it difficult for the six declared Democratic contenders to expand their own support, according to a variety of party officials.

"It kind of muddies the water," said Bonnie Campbell, chairwoman of the Democratic party in Iowa, where the first caucuses will be held next February. "If it's his intention not to go through the process but to be available for a draft, that's fine. But I think it does cause problems for the candidates who have been campaigning in Iowa and New Hampshire and the South and working very hard," she said.

"Yes, he is muddling the field," said Joseph Grandmaison, chairman of the New Hampshire Democratic party.
Deaf student teaches native language to Poly

By Dawn Jackson

As a student, Parker showed her the right way to speak, ready to repeat himself as often as necessary.

Parker teaches sign language—a class he takes to heart because it’s his native language.

Sign language is the second form of communication for the deaf. And for Parker, who’s been deaf since a high fever took his hearing at age 3, teaching the language is his way of educating Cal Poly students, faculty and staff about the deaf.

“Some people think it’s hard to learn sign language, but it’s not,” Parker said.

“When you’re just learning to read, you can’t jump to read the Wall Street Journal. You just learn to sign step by step, sign by sign,” said Parker in a pen-and-paper interview.

Parker is not a faculty member, he’s a student who “teaches” part time.

He moved to San Luis Obispo in August after attending Ohlone College in Fremont for two years to study administration of justice. He wanted to be a park ranger.

“I heard about Cal Poly last May. I’ve been dreaming of being a cowboy since I was 6,” said Parker, 25. “It’s hard to find a ‘cowboy school’ where you can have hands-on experience.”

He’s now an animal science major and hopes to use his degree to become a ranch manager or work in animal husbandry.

He said his deafness is not a problem in his hands-on major classes. He has an interpreter and a note-taker around his features with him.

“Like I have to have a note-taker along because sometimes the classes go so fast that I can’t write and look at the interpreter and the teacher at the same time. Sometimes we need another pair of eyes,” he said.

Because he is totally deaf, he can’t lip-read well. He said some people can lip-read, but they are usually people who have been deaf since they were born.

Carolyn Hurwitz, health educator and coordinator of the program, “We were looking for a positive way to hit students with nutrition and this was it.”

At Fremont, he attended the California School for the Deaf in Berkeley, which has about 500 students from kindergarten to 12th grade, for most of his education. The school moved to Fremont, and he graduated there.

He would live at school during the week and travel home to Marysville on the weekends.

When it’s not possible to sign or lip-read, Parker resorts to his old “friend” — the telephone.

There will be a different nutritional display weekly in the dining hall featuring basic nutrition, executive, stress management, oral health, alcohol awareness, weight loss advice and a special holiday eating tips.

“Are we probably going to call it ‘Food For Thought’— ‘nutrition corner’ is sort of dull,” said

ON-CAMPUS INTERVIEWS

Tuesday, November 24

In this week’s on-campus interviews, students are interviewed by various advertising agencies.

Treasure Chest Advertising, one of the nation’s largest advertising printers, is seeking to continue its tradition of strong growth.

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NUTRITION

From page 1 and becomes aware of what they are eating.

There will be a different nutritional display weekly in the dining hall featuring basic nutrition, exercise, stress management, oral health, alcohol awareness, weight loss advice and a special holiday eating tips.

At the booth, students can meet an appointment for individual counseling at the Health Center if they need to. The counseling is one-on-one basis with a nutrition educator.

Appointments are available Monday through Friday from 9 a.m. to 2 p.m. Students can also sign up at the front desk at the Health Center.

The nutrition educators can advise the student on healthy eating habits as well as diet and exercise.

“Exercise and nutrition work together,” said Hurwitz.

The nutrition educators also host workshops in the dorms and in community centers. They address the same aspects as the displays in the dining hall, to emphasize that the food in the Dining Hall is not bad for the student, but he just needs to learn how to use it.

The Foundation is concerned with its reputation because students view the food as fattening and starvies. The Foundation tries to prepare the food as attractively and healthily as possible.

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Love in the check-out line

Students are finding romance in the vegetable section

By Kristine J. Abbey

Next time you're in the supermarket pinching peaches or poking the iceberg lettuce, you'd better be prepared. Glancing at you over bunches of bananas may not seem like the ideal place for a date, but according to supermarket employees and customers of the three major supermarkets in San Luis Obispo — Lucky, Williams Bros., and Safeway — local markets are a place for many students to see friends or to ask a fellow shopper for a date.

While the supermarket may not seem like the ideal place for a romantic meeting, it poses several advantages:

• Everyone has to shop for groceries, so there's bound to be someone there to suit your fancy if not your pocketbook when you see them buying generic chips.

• If you've seen that special someone there once and didn't get up enough guts to approach him — never fear. Most people always shop at their favorite market.

• The leisurely atmosphere is perfect for meeting new people. You can shop for hours and no one will know how long you've been there since new people are forever filing in.

• Any time of day will do. Shoppers invade grocery stores at all times of the day and Saturday is open 24 hours.

• You can pretend you have no clue about shopping or anything else and ask the shopper you're eyeing if he or she knows the whereabouts of the popcon. If you're a guy you can ask your fellow female shopper about laundry detergent or bathroom cleaner. If you're a girl, you can hang around the motor oil and ask any macho-looking mechanic-type who would be the best kind for your car (you can pretend you don't already know).

• Whether or not you noticed such events on your last trip for groceries, they do occur. One Williams Bros. box boy said not only do customers pick-up fellow shoppers, but he and other employees have.

...it is a good place. The vegetable section is the best, I don't know why, but the people that turn heads are getting produce.

— Spencer Abbott

By Leigh Rubin

Love in the check-out line

A Safeway checker named Delilah said she sees a lot of action in the checkout line, and sometimes gets involved.

"Yes, people meet in here. They talk in line," she said. "I'll talk to them sometimes. Like if the girl is cute and the guy likes her I'll say, 'Is this next order yours?' and he'll say, 'No,' but then they talk. I think a lot of guys that shop here look for women, but I don't know about the women looking for men." A Safeway checker named Judy Joseph said the market was a perfect place to meet people, "if you're ambitious enough."

Even if you aren't ambitious enough to meet someone new, you are almost guaranteed to see someone you know at the market. Kelly Spasio, a checker at Lucky, said although she hasn't seen a lot of people "pick-up" on other people, she sees a lot of people socializing with friends all the time.

"It's the social gathering place," she said.

So whether you're shopping for T.V. dinners, interaction with friends or a date, try any one of San Luis Obispo's supermarkets. One-stop will suffice.

---

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1 Mustang Dr, SLO
Mustangs nip Broncos to close season with win

By Joe Packard
Sports Editor

In a close and exciting game, the Cal Poly football team capped its 1987 season by beating Santa Clara, 33-31, Saturday at Mustang Stadium.

The win broke a three-game losing streak and gave the Mustangs a 7-3 record overall and a 3-3 mark in the Western Football Conference.

Although it was a close game, a 22-yard touchdown with 2:27 left in the game clinched the win for Cal Poly.

Lance Martin's career numbers tell the story: 106 receptions for 1,379 yards and the most by Cal since the national-championship year of 1980. Santa Clara finished 6-5 overall and 3-3 in the WFC.

Cal Poly quarterback Tom Sullivan came into the game needing just 103 yards to become the school's second most prolific passer in a season, but the Mustangs instead found most of their success on the ground. Allen Sureia had one of the big games a Cal Poly running back has had in recent years, leading the way with 194 yards and two touchdowns.

Santa Clara's record-setting quarterback, Greg Calcagno, was superb. He hit 20 of 31 passes for 274 yards and three scores, although the Mustangs rose up to stop Cal Poly. The strategy worked, as Santa Clara forced downs.

Santa Clara opened the scoring with a 14-yard screen pass. The Mustangs then put together two scoring drives to take a 14-7 lead. Receiver Terry Cole brought in a 12-yard touchdown pass and Todd Henderson capped the drive with a one-yard run.

Martin capped Cal Poly's second score in the second quarter to take a 21-14 lead. Cal Poly's defense helped by a fumble recovery near midfield. Martin's career numbers tell the story: 106 receptions for 1,379 yards.

The Mustangs took the second-half kickoff and marched for a score in six plays. The first five were on the ground. Sullivan then hit a wide-open Jim Mastor, running out of the backfield, for a 22-yard touchdown. Sean Pierce, however, missed the extra point.

A Santa Clara field goal made it 24-20. Surviva broke loose for touchdown runs of 45 and 11 yards, putting the Mustangs ahead to stay. His second score was set up by a cornerback Derrick Season's fumble recovery at the Santa Clara 45.

Calcagno brough his team back with a 13-yard touchdown pass to tight end Geoff Cook, making it 31-21 with 2:27 left. Instead of an outside kick, Santa Clara opted to let the defense stop Cal Poly. The strategy worked, as Santa Clara forced the Mustangs to punt after three downs.

Calcagno, who had thrown for 7,000 yards and 43 touchdowns in his career, got the ball for the last time with 1:20 left. Just 35 yards and the Mustangs' defense stood between him and his kicker's range. He hit Mike Sullivan was just able to get the lead. The Mustangs took the lead back on a 22-yard drive with a one-yard run.

The Mustangs' defense forced the Broncos to punt after three downs. The Mustangs then put together a 10-play, 66-yard scoring drive with a one-yard run by Martin.

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<td>Special Group</td>
<td>Athletic Shoes</td>
<td>$65</td>
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ALL REEBOK SHOES 
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ATHLETIC APPAREL 

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| Crowsfoot Sweatshirts | 6.99 | 5** |
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Hall of Fame

Thirteen Cal Poly sports figures on Friday became the first inductees in the Athletic Hall of Fame and Distinction. Eleven of them were introduced during halftime of the Cal Poly-Santa Clara football game Saturday night.

Above, athletic director Ken Walker presents former football star Perry Jeter with an honorary jacket. Vic Buccola, who was a teammate of Jeter's, looks on.

Left, Robert Mott, who spent 32 years at Cal Poly. He served as a baseball coach and head of the physical-education department.

Below, Tom Kline and Mike Krukow. Kline, a former wrestler, is president of Supporters of Mustang Athletic Teams. Krukow is a San Francisco Giants pitcher.

Other inductees were LeRoy Hughes, Gene Lenz, John Madden, Hank Moraski, Richard O'Neil, Stan Sheriff, Karin Smith and Ozzie Smith.

Photos by
Daryl Shoptaugh
Poly outruns Davis in opening-day rout

By Elmer Ramos
Sports Editor

It certainly wasn't the Cal Poly basketball team of old — running the fast break, shooting from the outside, working the perimeter.

Unveiling a new style adopted for this year's quicker squad, the Lady Mustangs opened the season by romping over U.C. Davis, 74-57, Friday night in the Main Gym.

Head coach Jill Orrock started three guards to ignite Cal Poly's new up-tempo game, and they did not disappoint her. Julie Jordan, Jody Hasselfield and Elizabeth Oman combined for 43 points, most of them on fast breaks and outside shots.

"We did some nice things on the break," said Orrock. "We're looking to attack on both sides of the floor, and we did that. We pushed the ball up well."

The running game was a stark contrast to last year's deliberate strategy, in which frontliners Sherrie Atteberry, Janet Jorgen- son and Sherine Barlowe were the main focus. That trio is gone, however, and has been replaced by a group that is more comfortable on the move.

"I love it," said Jordan, the only returning starter. "Everything flows so much better. We were filling the lanes real well and the passing was just great."

When the Lady Mustangs did slow down, they did not automatically work the ball inside. Instead, the option to shoot from the perimeter. Jordan and Hasselfield even stepped behind the three-point line, both sinking a pair of bombs.

"We (guards) all have the green light on the three pointer," Jordan said. "We work hard on it in practice, so we feel really comfortable shooting it in a game."

WOMEN'S HOOPS

Although the backcourt clicked, Orrock said, "We work hard on it in practice, so we feel really comfortable shooting it in a game."

Hasselfield sank the game's first basket, giving the Lady Mustangs a lead they never relinquished. Fifteen minutes later, she buried a three pointer to extend the lead to 22 points, the largest margin of the evening. The Aggies whittled the deficit to 43-35 early in the second half, but never got closer.

The large lead allowed Orrock to substitute freely. With injuries trimming her bench to only four reserves, she was initially concerned the pace might wear down the team.

Jordan had 19 points and six assists, both team highs. Hasselfield sank the game's final basket, pushing the score to 74 before fouling out, and forward Russia Madden was in foul trouble before halftime and scored only five.

"We didn't use the inside game at all," Orrock said. "We were getting open, but none of the passes were getting inside."

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MARTIN

From page 7

Men

From page 7

Celebrities cash in on own cuisine

SAN DIEGO (AP) — A method of analyzing genetic fingerprints in blood, semen, hair and tissue has gained limited acceptance in the law, but in many cases the identification is 99.9 percent reliable.

"The use of the technique has a great deal of potential," Shaler said, at the conference of the American Association for Clinical Chemistry.

As the technique becomes a common form of evidence in the courts, it acknowledges some resistance by judges and juries.

"It's very difficult to relate scientific evidence," Shaler said. "It's very technical...

Shaler's firm, Lifecodes Corp. of Elmsford, N.Y., will start training police crime labs in the new technique.

Lifecodes was the only firm offering the service until last week. Representatives of Lifecodes have testified in civil and criminal cases in Florida, Oklahoma, Utah and Kentucky, Shaler said.

"What we've done is made a qualitative leap in our abilities to identify the perpetrator of a crime, especially a sexual assault," Shaler said.

In one murder case, Shaler said, the Lifecodes Corp. analyzed a fragment of brain tissue found on the grill of a pit.

In another case, Shaler's firm analyzed dandruff blood found in the crevices of a watch.

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CALENDAR

monday

• Evolutionist Bill Baker will speak on Evolution vs. Science in Chumash Auditorium at 7 p.m. Tickets are $1.50/students and senior citizens, $2 for the public. They will be 50 cents more at the door.

TOMATOES

From page 1

"It's like an energy animal that eats organic materials and produces energy," said Williams. After the gas is extracted, the sludge becomes fertilizer. Tomatoes are used while they are still green. If they were allowed to ripen, they would get moldy and introduce unwanted bacteria, said Williams.

 Normally, the tomatoes used in the methane process would be destined for the fresh produce section of markets, but they didn't make the grade requirements for quality or appearance and were "culled" out. Fresh market tomatoes are picked green and allowed to ripen in stores or consumers' homes. Tomatoes chosen for canning or sauces are left to ripen on the vine and harvested later, since appearances don't matter.

A pilot model of this process will be built at Cal Poly and moved to a tomato processing plant in King City. Later, a very large commercial setup with a 300,000-gallon capacity will be established, said Joseph Montecalvo, food science and nutrition department head.

This project started in June when the president of the California Fresh Tomato Marketing Board donated funds for research of alternate uses for tomatoes and a pesticide study.

Excess tomatoes are being used as cattle feed, and concern has been raised about the level of pesticides left on the tomato skins that are eaten. The residues of 150,000 tons of culled tomatoes fed to cattle accumulate in their fatty tissues and could pose a health hazard to humans, said Montecalvo.

Testing showed that pesticides don't penetrate the tomato skins. High levels of pesticides were found in San Joaquin Valley tomatoes, but the amounts could be reduced by washing them.

"Simply washing them will bring the levels to undetectable amounts," said Montecalvo.

The two other main growing areas, Salinas and the Imperial Valley area, are still to be tested, Montecalvo said.

"Eventually companies will have to look at alternative ways to dispose of waste... with minimum effects on the environment," said Montecalvo.

"We'd like to see other processors minimize energy costs with methane generators," said Williams.