Plans for power and heat plant underway

By Ron Nielsen
Staff writer

The future of a three-year-old plan to construct a co-generation facility at Cal Poly will be decided in the next several months, the executive dean said Friday.

Douglas Gerard said that the Allied Signal Corporation of Connecticut is evaluating final legal technicalities and the tax advantages of constructing the plant before making its final proposal. The privately owned and built plant will provide steam for campus heating and cooling as well as generate profit for Cal Poly and the state from the sale of electricity.

"It is now to the point that within the next three months we will know if it's a go or no-go situation," Gerard said. While the profits from the sale of an estimated 70 megawatts of electricity each year is still an attractive incentive to Allied Signal Corporation, changes in the tax laws proposed by the Reagan administration may drastically lower returns from the $30 million plant.

Co-generation was first developed in the late 1800s and uses waste heat from the production of steam to turn a turbine and produce electricity. With the availability of cheap energy beginning in the 1950s, co-generation fell out of favor. By 1977, only four percent of energy for industry was co-generated compared with nearly 50 percent at the turn of the century.

High energy prices in the last two decades have prompted large energy users such as universities, hospitals and factories to reinvestigate co-generation as a cost-saving strategy. A well-designed system, Gerard said, will produce more than 60 times more usable energy from the same fuel used to provide contraband to its enemies.

The two bronze university seals which decorate both of the Cal Poly entrance signs were noticed missing by the Cal Poly police department last month. According to Wayne Carmack, Cal Poly public safety investigator, the two round seals, formerly inset on the university entrance signs at the corners of Highland Drive and Grand Avenue, are valued at $1,180. They were first discovered missing sometime during the first week of December.

The police have no leads as to who stole the seals and encourage anyone with any information concerning the missing seals to call the Cal Poly Public Safety Department.

US concedes Iranian actions may be legal

WASHINGTON (AP) — The United States acknowledged Monday that Iran may have acted within traditional naval warfare rules in stopping and searching an American merchant ship near the Persian Gulf to determine if it was carrying arms for Iraq.

A final judgment on how to respond to the incident was withheld until the American ambassador to the United Arab Emirates completed his questioning of the captain of the President Taylor, and other facts are assessed, State Department spokesman Bernard Kalb said.

Kalb's statement seemed to represent an effort by the Reagan administration to avoid a flareup with the fundamentalist Muslem regime in Tehran, which is listed by the department as a supporter of terrorism.

 Asked what the United States intended to do about the incident, Kalb said "we are evaluating our option." He declined to elaborate.

However, the spokesman did say in a statement that a belligerent nation traditionally has "certain rights" under the rules of naval warfare, to find out whether neutral shipping is being used to provide contraband to its enemy.

Meanwhile, G. Quincy Lumbden Jr., the U.S. ambassador to the United Arab Emirates, was sent to Fujaira to meet with the freighter's captain, Robert Reismann.

In a precautionary move, two American combat ships — the destroyer Conolly and the frigate Boone — had been moved to the Gulf of Oman, where seven armed Iranian sailors hailed and then boarded the President Taylor on Sunday.

The ships were there "to prevent anything other than what happened," Defense Secretary Caspar W. Weinberger told reporters at a breakfast meeting at the Pentagon. "The boards left very quietly after an hour, an hour-and-a-half. There wasn't any need for the kind of naval protection that the ship was seeking."

The Conolly and the Boone were near the Persian Gulf, but too far north to prevent the boarding, and yet "they were close enough that they could have prevented the Iranians from taking that ship under tow or forcing it to an Iranian port," said a Navy source, insisting on anonymity.

Cal Poly

Research is alive and well

By Kathi Peoples

Innovations through research are usually not associated with non-land grant universities such as Cal Poly, but there is a variety of ongoing research and development on campus.

Land grant universities were set up in the late 19th century by President Abraham Lincoln with the primary purpose of doing research, said Ed Carnegie of the Cal Poly agricultural engineering department.

The largest agricultural solar dehydrator in the world was designed at Cal Poly and constructed in Fresno by students and faculty of Cal Poly.
ON THE STREET

Should Foundation divest from companies doing business in S. Africa?

Nick Athanasakos, senior, industrial engineering:
I'm for it. I don't agree with South Africa's policy and the only way we can put pressure on them is through economic sanctions because we're obviously not going to war against them.

Keith Simon, senior, environmental engineering, senator from the School of Engineering:
It's a complicated question. I'm torn. On one hand I feel we shouldn't divest because if you hold stock in a company, you can influence it ... on the other hand you should still make a statement that you don't like the politics of the country.

Fitzroy Raphael, senior, mechanical engineering:
They should divest for humanitarian reasons and I can't think of anything more humanitarian than divesting. They (U.S.) do military intervention for lesser problems than apartheid ... look at Grenada though I don't think violence is the answer.

Anne Green, junior, child development:
I'm opposed to divestment. I feel if we stop supporting businesses completely, then in the long run, it will hurt blacks working in the area more than whites.

Mike Mendoski, ASI President:
I favor partial divestment. I feel that the Foundation should divest in all companies not adhering to the Sullivan Principles. The principles are guidelines which provide an environment for the employer to make a positive contribution toward the fight against apartheid.

No holds barred

Tell me, why did the ad man jump out the window?

What about celebrities, Dan, the new American hero? Kids are dancin' in the streets all night long, hoisting Pepsi cans in worship to Lionel Richie. It's a new generation comin' at ya, God yes! Picture Springsteen label sincere jeans made by laid-off steelworkers — folks will stand in line for hours to spend a hundred bucks apiece for them. Let's reach for the stars, Dan, they all have the price, and America loves 'em all.

Gadgets, Dan, gadgets are America's specialty. How about cameras that load, wind, focus, compose, shoot, develop, and make enlargements all by themselves? Joe Consumer sends his camera to the Grand Canyon on motorized tripod, it takes pictures better than Ansel Adams, while Joe gushes the king of beers at home on the couch. Let's design gadgets that do everything for the American consumer.

But I haven't forgotten the marketer's dream: holy health and hygiene! Let's exploit the nation's fear of nuclear war Huey Lewis can spread the news: "We made a new drug, one that cures everything. Gets rid of tears and fears, it even taught me to sing."

And now that we've made them all superhuman, Dan, we can keep them occupied with toys and more toys. Cars that drive best at twice the speed limit, with dual turbo and quick conversion to all-terrain vehicles for easy destruction of wilderness areas. At night, pop on the campers top and back up the Amana radar range 'Cause it's Miller time.

Kids are dancin' in the streets all night long, hoisting Pepsi cans in worship to Lionel Richie.
US still working to return MIAs

WASHINGTON (AP) — A top Pentagon official, condemning private attempts to locate missing American servicemen in Indochina, said Monday the United States is making progress with its campaign to determine what happened to the 1,797 Americans still missing in Vietnam.

Richard L. Armitage, the assistant defense secretary for international security affairs, told reporters that the Pentagon has 93 "live listings" of Americans on file that it cannot dismiss as fabrications. But he added that the Vietnamese government, in negotiations concluded last week, has pledged to investigate those reports. The Vietnamese also have begun investigating reports from their own people involving the status of missing Americans, and they are allowing joint U.S.-Vietnamese teams to conduct "multiple" excavations at sites where American planes are known to have crashed during the war, he said.

Divestment up for vote in SF

SAN FRANCISCO (AP) — An ordinance forcing San Francisco to divest South African investments faced a city supervisors' vote Monday amid a battle over an amendment that would weaken the measure.

The ordinance would prohibit the city from contracting with or investing money in businesses that have ties to South Africa to protest that nation's policy of enforced segregation, called apartheid.

A controversial amendment that also would prohibit the city from buying goods produced by companies with ties to South Africa was adopted on a 6-3 vote two weeks ago.

Seatbelt laws violate rights of individuals

ROCKFORD, Mich. (AP) — There's a town in Michigan where not wearing seat belts is a crime without penalty.

Judge Stephen R. Servaas admitted he suspended the fines of 25 to 30 people ticketed for not wearing seat belts. Michigan law has required seat belt use since July 1, but Servaas said that infringes on individual rights. "I can't imagine what he's got on his mind," said resident Mike Cooper. "I think he's out of line."

Servaas hasn't heard such criticism since he requested bullet-proof panels in his courtroom and a cache for a pistol.

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the university, said Carnegie. The facility dries one-half ton of raisins per hour. It has been operating for seven years and has proven to be one of the most economical designs known for a solar dehydrator. It has a much shorter pay-off period than other government-funded projects, Carnegie said.

"A lot of our projects start off as student projects," Carnegie said. "I like to bring real-life problems into the classroom and have my students work on solutions."

One of Carnegie's best project memories began when the director of research for the California Almond Advisory Board called him looking for a way to get rid of bio-mass in almond orchards left after the crop has been pruned.

The board was concerned with not being able to burn waste products in the future, said Carnegie. "I invited him to talk to my design class about the problem. He wasn't very optimistic, but agreed to come and talk to the class."

"They presented their information as if they were in business."

The class guest seemed unimpressed at first, "but pretty soon he was sitting on the edge of his chair," Carnegie said.

The research director said he got more information in four weeks from the students than he had in several months from a consulting firm he paid $50,000, according to Carnegie.

The concept was further developed and resulted in a USDA grant to build a prototype solid waste compactor designed specifically for the California almond grower. It is currently being built on campus by students, said Carnegie.

"Agriculture is not the only department on campus with research and development capabilities," said Robert A. Lucas, director of university research. "The senior projects and companies to experiment on prototypes, there are other reasons for doing research," said Carnegie.

He added, "I think research at universities like Cal Poly is special because we're doing it because we want to—not because we have to. That makes a difference," said Carnegie.
Research the Poly way

Left, Robert Lucas, director of Research and Development, talks about past and present research and development on campus. Above, Ed Carnegie, head of the agricultural engineering department, points to a picture of a Cal Poly solar dryer project in Fresno.

Story and photos by Kathi Peoples
The following Cal Poly students, faculty and schools recently have made noteworthy achievements:

Student Achievement

- Pat Titus - a natural resources management senior, recently received an outstanding service award from the National Park Service. He was recognized for his work at Joshua Tree National Monument last summer where he was responsible for development of a full fire protection plan for the Southern California desert monument. A $250 stipend accompanied the award.

Faculty

- Leslie Labhard and Sander Swart - home economics professors, planned and conducted a Los Angeles tour of the Textiles/Clothing Industry. Students visited an apparel design/production firm with textile testing facility, a vertically integrated carpet manufacturing firm, the California Apparel Mart's apparel/fabric sales representatives including two professional alumni.

- John Harrington - this Cal Poly English professor is currently in Norway at the University of Bergen as a visiting research fellow where he will lecture to the faculty on American film genre and do extensive research on films. Harrington will be in Norway throughout winter quarter and will travel to England in the spring to participate in the Cal Poly London Study program. There he will teach courses in Shakespeare and conduct film research at the British Film Institute.

- Pleace Long - this political science professor recently participated in a panel on "The Wake of Intergovernmental Revenue Sharing" at the Western American Society for Public Administration annual meeting in Monterey.

- Joanne Beside Ruggles - an art professor, had some of her work exhibited at the University of Hawaii at Hilo in a group exhibition featuring California artists.

- John Mendelhale - this art professor has had his book, "High Tech Trademarks," published by the Art Direction Book Company, New York. It is an international survey of the corporate identity of computer hardware, software, semiconductors and laser technology industries.

- Still Doen - architecture professor, gave a series of three public lectures at the Schools of Architecture of the University of Detroit, University of Michigan and Pennsylvania State University. The lectures were "Architecture Without Walls," " Vernacular Architecture" and "Traditions Versus Maxims/Myths Versus Mistakes.

- Anthony Krable - this biological sciences professor has been appointed by the president of the American Fisheries Society to the professionalism committee of the organization.

- Robert McCarlie - an agricultural business management professor, wrote the project completion report published by the US State Department for the joint USAID - Lutheran World Relief Project titled, "Village Environmental Improvement, Singida Tanzania.

- Carolyn Shaak - this physical education and recreation administration professor recently presented the Cal Poly Wellness Project at the annual conference of California Society of Park and Recreation Educators in Monterey.

- Mary Dwyer - professor of landscape architecture, was requested by the State Architect, the Civil Engineering School, the California Arts Council to help select the design team for the new cultural center in the Candlestick Point Recreation Area in San Francisco. It is the first time that a cultural center is to be located in a state park, the Golden State National Recreation Area.

- Charles Siem - this physical education and development professor was notified that "Type A Personality, Environmental Fit Hypothesis" was accepted for inclusion in "Resources in Education."

- Gary Field - this graphic communication professor had an article, "Print Quality and Its Measurement - Part 1", published in the September/October 1983 issue of the British journal "Professional Printer."

- Harvey Levinson - this graphic communication department head was the keynote speaker at the November meeting of the Mission Bay Craftsman Club in Palo Alto. The title of his talk was "Preparing Human Resources for the Graphic Communication Profession Over the Next 10 Years: Cal Poly's Approach."

- Michael Blum - a graphic communication professor, had an article, "How to Duplicate Films Accurately," published in the November issue of "Printing Journal."

- Harold Cota - this civil and environmental engineering professor, gave a series of three public lectures at the British Film Institute.

- The Lockheed Missiles and Space Co. has donated $10,000 to support Cal Poly engineering programs and has given 12 large photographs of space projects to help furnish offices in the new Engineering Building.

- The Lockheed California Co. donated $5,000 to be used primarily for professional development of the engineering faculty.

- The Dallas-based Haliburton Foundation donated $5,000 to the school to support faculty development programs for the 1983-84 academic year. The foundation also contributed $500 to supplement operations of the Placement Center. Haliburton Co., the parent company of the Oil Field Services and construction and engineering firms.

- Graphic communication - this department has received a screen printing press from Advance Process Supply Co. of Chicago. The American Tempor printer, valued at $13,000, will be used in the screen printing laboratory. The press is the first of the new generation of compact screen printing presses offering features that were previously found only on much larger, higher priced machinery.
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Superbowl: Why bother with it?

By The Associated Press

It's starting out as the Why Bother Super Bowl. As in, why bother to play it when the National Football League can just declare the Chicago Bears the champion?

No sooner had the New England Patriots followed Chicago's 24-0 shutout of the Los Angeles Rams by upsetting the Miami Dolphins 31-14 Sunday than the predictions about the Super Bowl started rolling in.

Miami's Mark Traynor and David Lanham to extend the Mustangs' dual meet record to 5-1. The Mustangs spent the weekend in Hampton, Va. at the Virginia Duals and then left for Oklahoma where they met third ranked Oklahoma State University and Fifth ranked Oklahoma both Monday. The Mustang Grapplers will return to California for the California State University Fullerton Duals on Sunday.

Mustangs home after roadtrip, 1-1

By Lisa A. Hoek

Sports in the Daily

The Cal Poly women's basketball team broke even in its first pair of league games over the weekend.

The Lady Mustangs played in a warm University of California Riverside gym Thursday, but could only connect on a cold 23 of 70 shots from the floor for a 32 percent average.

"We only lost by seven, but they (Riverside) beat us worse than the score showed," said assistant coach Jill Orrock. "There was a lack of intensity and drive — we went out flat."

The score at halftime set Riverside ahead 31-25. The Highlanders maintained their lead by outscoring the Mustangs 51-40 and hitting 27 of 37 from the field for a 47 percent average from the field.

The Lady Mustangs trailed most of the game and didn't pull to within seven until the last two and a half minutes of the game.

"We finally started to play some basketball in the last two and a half minutes," Orrock said. Nonetheless, it was too little too late. The Mustangs lost 65-58.

Barb Blackburn, a 6'2" senior out of De Anza Junior College, hit nine of 21 shots for a game high 21 points. Teammate Janet Jorgensen poured in 14 points to go even for 18 on the night.

In another league match-up Saturday, Poly showed up the Toros of Cal State Dominguez Hills at their own game.

The Toros, known for their aggressive play, lost on an equally aggressive Cal Poly squad 63-59.

"The Toros are very tenacious," Orrock said. "But we were pretty tenacious ourselves. We made things happen and got to the (foul) line a lot."

The Mustangs showed a lot of hustle and determination, making 41 percent of their shots for the game and 47 percent in the second half. The second win "renewed our faith," Orrock said.

Trish Croo led the Mustang attack against the Toros scoring 16 points, while Blackburn continued her hot streak with 14 and Jorgensen also checked in with a well-balanced effort of 12 points and nine boards.

The Lady Mustangs ended up the weekend with a 9-5 overall record and 1-1 in league play.

The Mustangs are awaiting the challenge of the Matadors of California State University Northridge. The Matadors will arrive in San Luis Obispo Thursday for a 7:30 p.m. match-up in Cal Poly's Main Gym. The Matadors are 11-2 on the season and 1-0 in league play.

The Lady Mustangs will host California State University Los Angeles Saturday at 7:30 p.m. in the Mansion. Cal Poly is 7-2 and 4-0 on the season and 0-1 in league play.
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- Meet: Jan 23, 11 am, UU 217D
- Contact: Julius H. Schlosser (julius@calpoly.edu)

**TAU BETA PI**
- Weekly meeting Thursdays, 4 pm, Science Center Room 206
- Contact: Steve Little, 944-2716 or scottl@calpoly.edu

**FRENCH**
- Conversation in the Multicultural Center
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- Last Test watch during finals week
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**NEW YEAR'S CARD**
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- The Cal Poly Dance Team will be having their annual meeting January 16th, 7:30 pm. For more information, call 541-0083.

**GAY & LESBIAN STUDENT UNION**
- Please join us for a special event: UniGay! Friday, January 14th, 7-9 pm. Come and learn about UniGay and how you can get involved. Location: Union Room 341.

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American music: a hit in Mexico

MONTERREY, Mexico (AP) — A crowd of young music fans at the plush video bar, Heaven, watches Bruce Springsteen strut his stuff with the hit song, "Born in the U.S.A."

Formally attired waiters serve drinks as Madonna, Phil Collins, Eurythmics follow Springsteen — A crowd of young music fans at the plush video bar, Heaven, watches Bruce Springsteen strut his stuff with the hit song, "Born in the U.S.A."

... within the next three months we will know if it's a go or no-go situation.

— Doug Gerard

The present steam plant, which is showing signs of age, has not been maintained in top condition in anticipation of the new facility being built. Chief Engineer for Cal Poly, Robert Pahlow, said that rust is starting to deteriorate some pumps and tanks although "there is probably a lot of good years left in the boilers."

If a co-generation facility is built, the machinery and welding programs would be relocated in the old steam plant.

**PLANT**

From page 1 each unit of gas than a conventional system.

Several companies have made proposals for the plant in the last three years, but the recent recession and the volatile natural gas and oil price situation have increased the risk of building alternative energy facilities that require large capital outlays. The state decided not to finance the plant itself, Gerard said, because it would tie up too much of the state's resources. With a private firm, the state invests only land.

The builder will own and operate the facility and sell steam to the university and power to PG & E. Part of the income from electricity sales and the profits from the lease of land to the builder will be split between the state and the university to be used for energy related projects.

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The university, which uses approximately five megawatts of electricity each year, will continue to buy power directly from PG & E and will purchase steam from the facility.

Under the current proposal, steam from the natural gas fueled plant would be piped nearly two miles to the current steam plant across from the Health Center. The 4,000 pounds of steam produced each hour would then enter the 36,000 feet of underground pipe that heat and cool the major buildings on campus.

The distance from the plant to the campus core required a redesigning of the delivery pipe to increase the efficiency of the system. "There are some losses associated with the distance," Gerard said, "but it is not a significant item.""