Vandenberg AFB gears up for shuttle launch

By ROSEMARY COSTANZO

The first space shuttle to be launched from Vandenberg Air Force Base is scheduled to take off on Tuesday, October 25, 1985, according to Lt. Susan Ferkau.

Ferkau, instrument systems engineer, spoke about the launch during the School of Engineering charter meeting for clubs within the school last week.

Vandenberg is one of two places in the United States that can launch a shuttle. The other is Kennedy Space Center in Florida.

Vandenberg is the only place other than Kennedy where we can get a polar orbit launch over water, said Ferkau.

Vandenberg is one of the three largest bases in the United States.

The Discovery, the shuttle to be launched from Vandenberg, is the newest of the three shuttle fleet. The other shuttles are the Columbia and the Challenger.

The Discovery was last launched August 20, 1984 after three delays.

The original target date of June 25 was postponed when a back-up computer failed to answer a command. The next day a fuel valve failed four seconds before blast-off, this again delayed the mission.

On August 28, the day before the third scheduled launch, it was discovered that the computer charged with the last minute double checking of equipment missed some critical signals. Blast-off was pushed back 24 hours as computer programmers worked to correct the problem.

Hours after they finally took off the Discovery crew released a Satellite Business Systems Comsat, the first of three communications satellites to be launched. The 110 pound cylinder went into its proper orbit 22,000 miles above the earth.

The payload assist module used for the launching was the same kind that had pushed two satellites into useless low orbits on the last space shuttle in February.

The second satellite was also suppose successfully. This satellite used the Frisbee launcher. This mechanism was designed specifically for the shuttle. It shapes the satellite from the cargo bay in a slow spin that quickens once in space.

The third satellite successfully set was an AT&T satellite.

Discovery carried the first employee of an American firm to go into space. Charles Walker, an engineer with McDonnell Douglas, conducted a secret experiment in the gravity-free environment which would create a new hormone for the division of Johnson & Johnson.

The substance was reported as being the key to the manufacture of a super-insulin.

Walker's ticket on the shuttle cost $400,000.

The vast majority of experiments on the Discovery will be for military use, said Ferkau.

Vandenberg will be receiving Discovery from Kennedy Space Center on board G-4.

The launch control complex at Vandenberg is located 1000 feet from the launch pad. "At Kennedy the control complex, where the launch button is pushed is located over three miles from the launching area," said Ferkau.

It costs billions and billions of dollars to erect a launch site. It will be quite a while before the shuttle becomes economically advantageous.

The launch area at Vandenberg is called Slick 6.

One of the problems with a launch at Vandenberg is the fog conditions of the base. "A multi-million dollar system has been designed to keep ice from forming on the shuttle which could damage the heat-resistant tiles," Ferkau said.

"After the launch, all control is turned over to Johnson Space Center in Houston, Texas, which is mission control," she said.

Discovery will be launched south and will contain explosives so it can be blown if it strays off course over a populated area.

The shuttle can transport a crew of three plus heat experiments, along with 150,000 pounds of payloads.

The shuttle makes possible a wide variety of orbital activities including: launching and servicing satellites, recovering and returning satellite to earth, conducting on board scientific experiments and assembling huge structure spaceships.

The shuttle is divided into three main units. One of the units is the orbiter, in which people and cargo travel between earth and orbit. The orbiter also contains two solid rocket boosters that along with the orbiter's three main rocket engines launch the entire system.

Another unit is the external fuel tank which supplies propellants to the orbiter engines. The orbiter lands back on earth. It can be reused for more than 100 times it is now estimated. The boosters parachute into the sea and can also be reused.

The third unit is a complete scientific lab that remains bolted to the orbiter's main body.

Among the many services and benefits anticipated from shuttle payloads are: timely global crop forecasts, locating potential petroleum and mineral deposits, and alerting officials to air, land and water pollution.

Research on the shuttle can also provide water resources studies of water resource management along with inventories of timber and providing current per.

Please see SHUTTLE, page 3

Fire burns Burger King; burglars are suspected

About 140 Cal Poly students joined forces Thursday afternoon to construct a brick outhouse in three hours.

Volunteers build house in a day

By ROSEMARY COSTANZO

Maybe nobody ever told architecture instructors Howard Weisenthal and Ken Kohlen that Burnt was in a day, they insisted an outhouse could be built in three hours, and it was.

About 140 students in Weisenthal and Kohlen's building materials and construction class used gallons of glue and cardboard bricks. Thursday afternoon, to erect an outhouse complete with crescent moon toilet seat and the Sears catalog.

The newest building addition to the campus is located in the stair court area of the Architecture and Environmental Design Building. The instructors named their assignment "The First Annual Great Outhouse Event."

"I wanted the students to get out and build something, opposed to sitting in a lecture class of 140 students seeing slides and hearing lectures," said Weisenthal.

Ferkau gave them a chance to see the problems of putting a building together. They got the opportunity to see how many people actually have to come together and agree on how the structure should be built.

Each student was required to make 16 bricks out of cardboard and received a grade for their participation in the project.

Weisenthal, wearing a yellow hard hat barked instructions to his construction crew through a megaphone throughout the three hours.

Kohlen, wearing a silver hardhat, supervised the roof construction, mud and door were constructed out of wood.

"It was a fun project," said Weisenthal.

Fires burned at an apartment building and Burger King in San Luis Obispo Saturday during the early morning hours.

No one was hurt in a fire that brought police and fire units out at about 3:40 a.m. A resident of an old, two-story, wooden apartment building at 1717 Santa Barbara St. awoke to the smell of smoke and found several paper wall posters burning in an upstairs hallway.

While police and fire units were investigating the apartment fire, Police Officer Mike Brenner saw smoke coming from the Burger King restaurant, 975 Foothill Blvd. Six fire units responded to the blaze at 4:44 a.m.

Preliminary investigation of the restaurant fire revealed that burglars had gained open a rear door, ransacked the interior and then set fire to the office area of the restaurant. Officials speculated that the burglars set the blaze in an attempt to destroy evidence of the burglary.

In the apartment fire, resident Jesse McCraw alerted other residents to the smoke coming from a smoke alarm. The alarm sounded and all residents safely fled the building. McCraw put out some burning posters and prevented any fire damage to the main building.

McCraw was not available for comment.

A detached garage at the rear of the apartment building was completely engulfed in flames by the time emergency units arrived. Both fires and the burglary are under investigation.
Editor:

My recommendations to Doug D'Ambrogia for Look magazine were based on a student participation in the selection of performers for concerts at Cal Poly (Wednesday, Nov. 28). I also agree with his view on the types of music that are popular to the student body. There are, however, a few discrepancies I would like to correct.

It was stated that if the concert committee had selected the groups, there wouldn't have been enough funds to buy tickets. This is true, but it is not quite that simple.

First of all, not all acts are within the price range the concert committee can afford. Secondly, there is no sure-fire calculation that you can pull out of your "popularity chart" to find out what amount of students are willing to pay for any particular group. And even if it was known which groups were likely to get the students, not all students would want to see U2. But would she also be willing to support a mainstream group? Ms. Fiscalini might be an example. I paid $17.50 and drove over 100 miles to see U2 because I was interested in a mainstream concert. I would have not gone to see the Los Angeles or San Francisco bands.

The committee did not make a good judgment about which groups would have offered a real profit. The profit of $1,041 — contrary to Mr. D'Ambrogia's statement — was lost in the actual cost of $7,500.

I was asked the U2 would be more than $10 a ticket and that they would be held in late March. True, March is a few months away, but the decision to put a bid in the group must be made now if the committee even wants a chance of getting them here. And the actual ticket price for student would be $97.50 the same price charged for concerts by the Charlie Daniels Band, Eddie Money and Pretenders.

A protest was made on the method of selecting performers for future concerns. It stated that the committee's method of choosing the groups which the majority of the students would attend is not really what the committee personally want to see. How more concerned about the price range the concert committee "chooses" to perform? Mr. D'Ambrogia, suggest a dictatorship instead?

I of course agreed that Blue Oyster Cult is stated a need by Poly for groups with current popular songs. He goes on to describe Blue Oyster Cult as a "popular heavy-metal group...twist many well-known songs like I'm Burning for You..." But I'm Burning for You" is how many years old? Is this current...or bias?

I must admit there has always been a need for more student input, but there are more positive ways to approach this problem than the manner in which Mr. D'Ambrogia chose to do. It is necessary that all those concerned with this problem generate interest among peers with a variety of interests in music to make the Concert Committee more representative body. But I do agree that unless one is interested in the price range the concert committee is willing to pay, all the rest will not appeal. The committee might also want to consider a more diverse price range that would support a heavier group than Blue Oyster Cult. For I know who Blue Oyster Cult is and will be willing to pay to see them as opposed to UB40. Blue Oyster Cult was not my choice and thanks to the committee's choice, the group is not coming to Cal Poly. The UB40 show is being looked into as the next concert and the U2 concert as the show after UB40. I am sure there are many students like U2 rather than a lesser-known group like UB40.

...and press releases...Mafia

Weekly Togy Daily Monday, December 3, 1984

Letters

Concerts 'critics'

Editor:

I hope the Mustang Daily will allow me a chance to reply to the criticism of my letter written to the Mustang Daily. The protest was written by Mr. Doug D'Ambrogia not D'AMBREGIA.

First of all, people are more willing to pay more to see a group they are listening to right now. 1984, in view of the above, was more popular a few years ago. Money is a factor but not the ultimate criterion. The date that the concert is held and the location is an important economic factor. The success of a concert. I agree groups will change more if the group is popular, but people will have to see a popular group than a lesser known group. As an example, Ms. Fiscalini might be willing to pay more than $10 (to see U2) but would she also be willing to pay over $10 to see UB40? Since she loves to be saturated with music, she might say yes, but our mainstream student body probably will say no.

Dorm Antics

WHAT! I CAN'T BELIEVE IT ITS DEAD WEEK AND I GOT A NEW ROOMMATE

Dorm Antics

It's a waste of time. I don't care what anyone says or does, I'm going to tell you the truth.

My name is Mr. Steve Camp He's a business man with an accounting concentration

His name is Mr. Steve Camp He's a business man with an accounting concentration

Can Steve Camp be a business man with an accounting concentration?

He must be a pretty residue

I think they better start making the requirements a little tougher for business majors

Mustang Daily

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Mustang Daily encourages readers' opinions, criticisms and comments. Letters and press releases should be submitted at the Daily office in 101 Mustang Student Union. All columns and letters should be double spaced and must include the writer's signatures and phone numbers. To ensure that they be considered for the next edition, letters should be submitted to the Daily office by 1 p.m. the day before the issue is published. Letters should be written for the paper and submitted on 8 1/2 by 11 inch paper. All letters must include phone numbers and names of the people or organizations involved. In case more information is needed. Unsolicited letters will not be considered. Mustang Daily Editorial Board

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Dorothy Slaphania Pingai

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Mafia

Reading guarantees U2 concert sell-out

Editor:

In a recent letter to the Mustang by Doug D'Ambrogia, he stated that the top choice of the Concert Committee for concerts this year at Cal Poly is U2. If the Concert Committee are unable to get U2 to perform at Cal Poly, I guarantee them that it would be a sell-out.

I have already tried to find the exact number of tickets to one of U2's shows in Los Angeles or San Francisco. Both groups would not even face many tickets from scalping agencies are already at a minimum of $56. If the Concert Committee is not able to get U2 to perform at Cal Poly, I am sure that there are many students like me who would be willing to pay $10 to see UB40. Blue Oyster Cult was not my choice and thanks to the committee's choice, the group is not coming to Cal Poly. The UB40 show is being looked into as the next concert and the U2 concert as the show after UB40. I am sure there are many students like U2 rather than a lesser-known group like UB40.

I have also been criticized for publicly discussing the Concert Committee. The letter I wrote was written before the Untouchables' concert. At the meeting held the following week after the concert, the next group chosen to play here at Cal Poly was the Violent Femmes. This action definitely supported my theory that THIS year's committee was biased in a particular style of music. Ms. Fiscalini and also the committee member who stated that LAST year's committee chose Chuck Mangione. However, the committee member stated that ONE concert was chosen for You're the Best and the committee member stated that, for the current committee, the committee wants a concert that will appeal to the majority of students here at Cal Poly. This is why I am writing this letter. However, there are many other ways, with less positive ways, to approach this problem than the manner in which Mr. D'Ambrogia chose to do.
College entrepreneurs to meet

By LISA LONG
Staff Writer

Cal Poly entrepreneurs are organizing a new club. The Association of Collegiate Entrepreneurs will hold its first meeting in room 221 of the Agriculture Building at 6 p.m. on Jan. 15.

The purpose of the club is to bring college entrepreneurs together to meet and share ideas, said Richard Rodriguez, club president.

The club is open to all entrepreneurs, said Rodriguez. "An entrepreneur is somebody who's a risk taker, goal oriented and gets a lot of satisfaction from running businesses independently. Entrepreneurs are "not always driven by the dollar," he said.

Rodriguez said entrepreneurs tend to be more patriotic Americans and tend to be more patriotic Americans than people who work for someone else. "They believe America is still the land of opportunity," he said. "They want to cash in on it."

Entrepreneurs "keep the country building and create more jobs," said Rodriguez. The club hopes to build "a lot of enthusiasm" and a "strong alumni" support network.

Long term goals for the club include the establishment of an association of college entrepreneurs in San Luis Obispo, where professional and college entrepreneurs can exchange ideas, Rodriguez said.

Faculty advisers of the Association of Collegiate Entrepreneurs are Duane Seaburg, professor of business administration, and Eugene O'Connor, professor of agricultural management, and Agriculture Mark Emanuelson, Vice President in Business Steve Fought, Vice President in Engineering Steve Rutland, Treasurer Kelly Ann Schneider, Publicity Kirk Whelan, Consultant Randy Barnes, Programs Charlie Winslow, Secretary Mark Bowman, Photographer Val Emcomicio, Trips Gary Jennings, and Agricultural Representative John Roy Abelle.

For more information on the Association of Collegiate Entrepreneurs call Richard Rodriguez at 543-5157 or Steve Fought at 543-8608.

SHUTTLE

from page 1

types of urban areas for land use planning.

The space shuttle research can also be useful in predicting better weather and climate forecasts by gathering global temperature, cloud formations and air pressure and wind readings.

Experiments on the shuttle can produce crystals for electronics, metal alloys, and other products made possible by the weightlessness of space.

Many companies, such as NASA, are developing new technology for application on Earth. "We need entrepreneurs who can take that national military event and turn it into a thing they can make money from," said Rodriguez.

The executive board of the club includes: President Richard Rodriguez, Vice President in Agriculture Mark Emanuelson, Vice President in Business Steve Fought, Vice President in Engineering Steve Rutland, Treasurer Kelly Ann Schneider, Publicity Kirk Whelan, Consultant Randy Barnes, Programs Charlie Winslow, Secretary Mark Bowman, Photographer Val Emcomicio, Trips Gary Jennings, and Agricultural Representative John Roy Abelle.

For more information on the Association of Collegiate Entrepreneurs call Richard Rodriguez at 543-5157 or Steve Fought at 543-8608.

The huge structures that will be built in space are expected to be used for future solar electric power stations, or for huge communication satellites.

After the last Discovery flight NASA announced that it planned to fly eleven shuttle missions in 1985.
Lemon’s Stars shoot for points and big laughs

By LISA LONG

Two basketball teams walk on the court, one team in regulation sweat uniforms, the other team in bright-red sweats with black and yellow stripes across the shirts, black and yellow striped sleeves, a uniquely sculpted hem and a loping black cuff protruding just below each player’s knees.

The game begins and one player shouts “Are you sure?” to calls by the referee. The same player tickles an opposing team member during a free throw and says “koochie, koochie, koochie,” tells teammates to “scratch ‘em in the eye.” shoots for the wrong basket, runs across the court without dribbling the basketball and says he’s “just passing through” when he walks in front of an attempted free throw.

The basketball game was played in the Cal Poly Main Gym but had little resemblance to a regulation college basketball game. Meadowlark Lemon, formerly with the Globetrotters for 22 years, and the Star Shooters combined comedy and intricate ball maneuvers to entertain an enthusiastic audience last Saturday night.

Lemon and the Star Shooters used intricate trick shots while maneuvering the ball under legs, over heads and off bodies. Lemon involved the audience with the game. His comments and banter with the audience added a flair to the exhibited talent. Lemon strolled by a young girl, screaming loudly just as the two passed. The audience laughed as the girl ran to her parent.

A woman leaving the gym was another subject of Lemon’s humor. “Where you going lady?” he said. “Come back here when I’m talking to you.”

A boy in the stands was told to “sit down” by Lemon.

The Star Shooters performed a water trick with a bucket of confetti landing on members of the audience.

The Star Shooters, formerly the Bucketeers, played their first game Saturday under their new name. The new team will focus on “fund raisers,” said Lemon during a half-time interview Saturday night. Lemon’s plans include entertainment for the armed forces and a fund raiser for a San Bernardino girl who was covered with acid after being raped, said Lemon. The team will raise funds to assist payments for plastic surgery the girl will undergo during the next seven years, he said.

Lemon worries about his three daughters and said “it’s time men
The Star Shooters perform, along with star Meadow Lemon, in the Main Gym.

Meadow Lemon, 72, the clown prince of basketball, was a star with the Harlem Globetrotters for 22 years. He started doing something, he said, "and all of us should give it a try," he said.

Lemon was labeled "the clown prince of basketball" during his 22 years with the Harlem Globetrotters. His comic flair with basketball began when Lemon was 11 years old, a talent disliked by school coaches but the key to his future success with the Globetrotters.

"We need to laugh," said Lemon, "Big laughs in what he gets from the audience. The team supplies needed source of family entertainment," said Lemon. "There are no too many sources of family entertainment in the world," he said.

Lemon and the Star Shooters practice eight hours a day, said Lemon. "I train very hard. I actually work at what I do," he said.

Lemon concentrates on the comedies and lets "the other people shoot baskets.)"
While the officials cried foul, foul, foul 45 times Friday night in the Main Gym, the Cal Poly men's basketball team won its third straight game 69-61 over a taller Sonoma State.

The Mustangs were led by Derick Roberts who scored 16 points and pulled down five rebounds as well, said Poly head coach Ernie Wheeler. "They were very big. We played well. We had good balanced scoring." Three Sonoma State players fouled out midway through second half, and Cossack head coach Dick Walker called the officiating atrocious. With all the fouls, both teams struggled to get their pace officiously. In the end it was Poly that did it with four players. Poly had four players in double figures. Besides Roberts, guard Chico Rivera scored 14, Nate Hat­ ten 12 and James Wells 11.

The leading rebounder for the Mustangs was Darren Masingale with seven. He added nine points. Wheeler said that Rivera "did a good job of quarterbacking the team," and added that Roberts "has been playing well off the bench." Wells also tossed seven assists. Sonoma was led by Eric Johnson who scored 20 points, half of them free throws.

The Mustangs play two home games next, going against the University of North Dakota on Wednesday night and Hayward on Friday.

Wheeler said North Dakota is one of the top Division II teams in the country with five returning starters. "It should be interesting." On the year, Wheeler said team has not played together a lot, with both guards junior college transfers. "We have to keep working hard. We have to keep improving.

Seven players scored during the game Friday night, with Jim Van Win¬ doing the 49ers a 21-10 advantage in the opening half, and MclA>more got his touchdown in the third quarter — one shy of the club record. Johnson, getting the third touchdown in his 11-year career, gave the 49ers a 21-10 advantage with 1:21 left in the opening half. Joe Montana fired a pair of first-half touchdown passes — 64 yards to Freddie Solomon and 6 yards to Dwight Clark — as the National Conference West champions lifted their record to 13-1. Marking only the 14th time in Na­tional Football League history a team has won 13 or more regular season games.

Chico Rivera goes to the basket during win Friday. Joe Montana fired a pair of first-half touchdown passes — 64 yards to Freddie Solomon and 6 yards to Dwight Clark — as the National Conference West champions lifted their record to 13-1. Marking only the 14th time in Na­tional Football League history a team has won 13 or more regular season games.

The Falcons plunged to 3-11 for the year, losing their eighth in a row — one shy of the club record. Joe Montana fired a pair of first-half touchdown passes — 64 yards to Freddie Solomon and 6 yards to Dwight Clark — as the National Conference West champions lifted their record to 13-1. Marking only the 14th time in Na­tional Football League history a team has won 13 or more regular season games.

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Poly hosts NCAA regional tourney

By JILL PERRY
Staff Writer

Cal Poly, home of the No. 3-ranked volleyball team in the nation, will be the site of the NCAA regional volleyball matches Friday and Saturday, hosting matches between the Mustangs and Fresno State, No. 9 San Jose State vs. Oregon, and the final match between the winners of both matches.

The Mustangs swept the first two matches and celebrated at the home of head coach Mike Wilson Sunday afternoon, as he said he expects large crowds for the three matches.

"I expect standing room only," he said. "If people want to go, they better get their tickets early."

The cost is $3 for students and $4 for general admission. Tickets may be purchased this week at the UU ticket office, 10 a.m. to 4 p.m.

Oregon, which upset No. 6-ranked Hawaii in five games this weekend, will travel to San Luis Obispo to face off against San Jose State at 6 p.m. Friday. Then at 8:30 p.m., Cal Poly will be pitted against No. 19-ranked Fresno, which is enjoying its first season in the top 20.

"Fresno is higher than a kite right now," Wilson said. "They just beat Santa Barbara (ranked 17th), and they're doing cartwheels over there in the valley."

Statistically speaking, Cal Poly should have no difficulties taking the regionals. With a 33-7 season record and a roster that includes four all-conference players, the Mustangs should have an obvious edge.

"I expect us to win it," Wilson said about the regionals. "I'm not saying we will win it, but I expect us to win it.

"There should be some great volleyball playing this weekend," he added. "San Jose State is ready for their match and Oregon is tickled pink after their win over Hawaii. It's going to be tough. Those four teams had to be good to make it to the regionals," he said.

Alpha Sigma again fraternity champions

By MICHAEL STUMP
Staff Writer

Alpha Sigma fraternity defeated Delta Sigma Phi 32-6 in the Inter-Fraternity Council championship football game yesterday.

This is the third year in a row Alpha Sigma has won which means they get to keep the IFc football trophy.

"We were just really excited," Coach Francis Johnson said about the reason for the victory.

Johnson also said it was the first time any fraternity has taken home the trophy in the history of IFC.

Alpha Sigma started their scoring drive with a 40 yard pass play from quarterback Dave Pinizzotto to Johnson, who also plays tight-end.

Alpha Sigma scored twice again before Delta Sigma Phi quarterback and coach Steve Guida took the ball in on a keeper.

"They out-played us," said Guida. "I made a few bad throws, there were some dropped balls whenever we were down near the goal line something would set us back.

He contributed much of this to the Alpha Sigma front line which put a lot of pressure on the offense.