

# El Mustang

CALIFORNIA STATE POLYTECHNIC COLLEGE ★

VOL. XXIII, No. 28

SAN LUIS OBISPO

Friday, February 28, 1962

## Poly Crash Brings Action of Congress

BY DIANA VOS  
Associate Editor

At SAC last Tuesday, Graduate Manager, Bob Spink brought to the attention of the council a request from Senator Warren G. Magnuson, chairman of the Senate Committee on Interstate and Foreign Commerce, for response from the ASB concerning Senate Bill 1969.

"This bill, now pending in the Senate," said Spink, "gives permanent operating status in the airline industry to all non-scheduled airlines for operation on Civil Aeronautics Board (CAB) certificates. These are good for either two or five years. The bill does nothing to assure the traveling public that these airlines will be financially responsible in case of accident, or that they will operate aircraft safely."

The bill has relevance to Cal Poly, because one of these non-scheduled planes crashed in Toledo in 1960, killing 17 students.

Spink said that a "court ruling against these airlines and the CAB two years ago could have ended all such operation, but the CAB was successful in obtaining interim Congressional action, allowing them to continue operations."

Consideration of the final passage of this bill is being undertaken by both houses of Congress. If it does not pass before March 30, 1962, their operation will be terminated, and they will be divested of their authority.

Following are a few brief quotes in reference to the bill from the Monday, Sept. 18, 1961 Congressional Record. The men quoted are presently working on the bill:

"... MR. ROUSSELOT (Calif.): ... I do feel, however, that the committee has not gone far enough in demanding that the CAB be required to see that the supplemental air carriers act responsibly in the field of air safety and in their financial operations. It so happens, Mr. Speaker, that there were two young men from my district who were members of the football team that were involved in a crash at Toledo, Ohio. As was brought out in the CAB hearings, it was because very slipshod safety requirements existed that this plane went down ... As the House committee report indicates,

"The so called certificates issued by the CAB to the supplemental carriers were illegal. This illegality was not a mere technical infraction of the act. It was fundamental.

"The Government shares the responsibility for these disasters, according to that language.

"The point I wish to make is this. I do not believe this legislation goes far enough in making sure that the CAB and FAA (Federal Aeronautics Administration) are required to demand adequate financial responsibility of these air carriers.

"... we must be sure that groups who charter these flights can be assured of safe passage."

"MR. WILLIAMS: ... It is not the intention or the purpose of the committee in reporting this legislation to give the CAB carte blanche authority to grant certificates in the absence of showing its fitness and financial responsibility. With respect to the safety operation, that is a matter that comes primarily under the jurisdiction of the FAA, which agency is charged with the duty of certifying aircraft and certifying airman. In the case of the Artic-Pacific Airlines at Toledo, a very unfortunate accident which took the lives of the football team, the FAA filed a complaint with the CAB that the plane was overloaded by about 2,000 pounds and took off in weather conditions near zero visibility. Now the Board has, of course, investigated."

"MR. ROUSSELOT: Is the chairman of the committee concerned?" (Continued on page 4)



"ALL SYSTEMS ARE GO!" ... The College Dining Hall was a busy place Tuesday as hundreds of students gathered to drink coffee and watch the saga of John Glenn's orbital space flight around the earth. The television set was on from early morning until late at night as the history-making drama unfolded. (Relasche photo)

## Engineering Week Closes After Six Days of Events

Engineering Week concludes on campus today after six days of special activities and exhibits. Mrs. Joyce Wertz, Mrs. Engineering of 1962, formally started Engineering Week on campus Monday by attending the showing of two movies, "The American Look" and "The American Engineer." The two movies, first activity of Engineering Week, attracted 50 persons despite rain.

Governor Edmund G. "Pat" Brown issued a special proclamation in observance of Cal Poly's Engineering Week. In part, it read: "To the men and women of the many branches who join in this observance—the Engineers who strive to achieve these ideals and practices—I extend, on behalf of the people of California, congratulations and best wishes for continued success in your important endeavor."

The Washington birthday program held last night featured Daniel A. Sharp of the United Nations and Peace Corps, as well as the Engineering Council banquet. Invited guests to the banquet were Mrs. Engineering and her husband; Dean of Engineering Harold Hayes and Mrs. Hayes; Dr. Julian A. McPhee and Mrs. McPhee; the president of the local Professional Engineering Society, and the 18 members of the Engineering council. During the banquet, Mrs. Engineering was formally introduced by an Engineering council officer.

Sharp arrived yesterday at 1 p. m. and was given a tour of the entire campus during the afternoon. Later that evening, he attended the banquet and immediately after, took the speaker's rostrum to talk on "Peace Corps and Engineering." The role of engineers in the aid of underdeveloped countries was the main theme of Sharp's talk.

Prior to the talk, a one-half hour International Week program, participated in by Cal Poly foreign students, provided music of their various homelands and the wearing of colorful traditional native dress.

After Sharp's talk, a reception followed in the Staff Dining room, where prospective Peace Corps applicants questioned him on all phases of membership in the organization.

**Anyone Transferring?**  
Students who plan to transfer from Cal Poly to another college should, at the earliest possible date, request their transcripts of record be forwarded by the Registrar's office.

## Athletic Insurance "Mistake" Costs ASB \$600, SAC Hears

By WAYNE COX, Staff Writer

The wheels of Student Affairs Council on Tuesday finally caught hold as student legislators decided to buy a \$8,950 photoengraving machine, approved the revised Finance code, turned down an engagement offer from the Limeritters, and heard about a \$600 mistake.

A stinging issue that didn't set too well with some SAC members was a matter of \$600 the Associated Student Body was obliged to pay to the California State Colleges board of trustees for somebody's "mistake."

The \$600 is to provide payment for purchase of death and injury protection for individuals participating or as members of athletic teams, cheer leaders, student managers, or band members under coverage taken out in compliance with Senate Bill 722 which is now part of the State Education Code. The coverage includes medical, hospital indemnity and additional coverage to the NCAA policy which Cal Poly already had.

SB 722 of 1961 made the Trustees obligated to provide the coverage in the amount of \$5,000 in "each category" for each member of an athletic team while being transported by or under sponsorship of the colleges or student organizations. The cost for each college was based on information by the colleges on the estimated number of students involved in athletics. According to a letter to President McPhee from John F. Richardson, vice chancellor for business affairs of the Trustees, the policy covers the period back to September 15, 1961.

**Premium Paid**  
At any rate, according to Richardson's letter, the Trustees office has paid the total premium until Sept. 15, 1962. The \$600 assessed against Cal Poly, is the college's cost of the policy taken out by the Trustees.

Copies of SB 722 and the Report of the State College Committee on Travel Policies of Student Groups were circulated to the colleges last year. Richardson's letter said, it stated, also, "This report has been accepted as policy by the Board of Trustees."

Since Cal Poly was covered by the NCAA policy, the Trustees' policy is, in effect, a duplication of coverage not provided for by the ASB, some SAC members said.

Dean of Students Everett M. Chandler said "I am very sorry to say that no legal action could be taken to change this mistake. It appears that we're stuck with it now, but it won't happen again."

Finance Committee's recommendation to buy the Fairchild photoengraver for publications was challenged by senior class representa-

tive George K. Maybes. He charged that an invalid justification, regarding costs per square inch and costs per column inch existed in the Board of Publications' proposal to buy the machine.

Student Body secretary and El Mustang business manager, Mary Fran Crowe, pointed out that the cost of engravings per square inch would drop from 10 to six cents if the machine were bought by the ASB, without regard to transportation costs to Atascadero where engravings are made at present, there being no place in San Luis Obispo with such a machine.

**Objections Heard**  
Maybes said it was "naive" to believe that the Electronics department would provide maintenance of the machine. Student Body President Lee Foreman, discussing purchase of the machine, said, "It doesn't make sense that the Fairchild company would give the college a \$4,000 gift—and why does it have to be this machine at this time?"

Glyde Hostetter, Technical Journalism department head, replied that it was the only machine available at this time and another chance to get one later may not arise. He had pointed out earlier that the company was desirous of placing their equipment in the department in the same way that other companies have made concessions on equipment and machines in Printing and in some other departments on campus.

Board of Publications had recommended to the Finance committee, after an investigation of comparable operating costs, that the machine be purchased to take advantage of Fairchild's offer to reduce the price by about \$3500 plus free use until next September when payments can begin.

SAC approved the purchase on the third and final vote of the question.

## Friday Flick Presents 'Love in the Afternoon'

Tonight's movie presentation in the Little Theater features "Love in the Afternoon," starring Audrey Hepburn and Gary Cooper.

As an additional attraction, Vandenberg Air Force base has supplied a 50-minute short subject. This technicolor movie shows the launch and in-flight catch of a satellite launched from Port Arguello, Calif.

The movies begin at 7 and 9:30.

## Sloop Wins \$15 Prize In Button Contest

Conrad Sloop, senior ME major from Oroville submitted the winning design for this year's official Poly Royal button and collected a \$15 first prize for his design, it was announced Tuesday by the Poly Royal board.

More than 19 students submitted designs for the contest, which was sponsored by the Agricultural Education club.

To qualify for consideration by the board, each entry had to include something indicative of the four divisions; the Poly Royal

**PICTURE ON PAGE 4**  
theme, "Patterns of Progress," the colors green and gold; black and white lettering; something denoting the 80th annual Poly Royal; and the Poly Royal dates, April 27 and 28.

Sloop's button design will be slightly modified and sent to an eastern manufacturer within the next week. The company will ship approximately 1,500 buttons to the campus, which are to be sold for 25 cents. The bookstore and student representatives will handle the sales, which will start during the first week in April.

## Poly Royal Queen to be Chosen As Students Vote Next Week

"Miss Cal Poly, Queen of the Poly Royal" will be selected by the Associated Student Body Wednesday and Thursday, Feb. 28 and Mar. 1 when a special Poly Royal queen election will be held.

Ten candidates were chosen last week to run for the title. They are: Dianne Bennett, Zoe Boscok, Judy Church, Carol Ely, Joan Estes, Mary Hallahan, Jan Madsen, Linda Schickley, Kay Smith and Lynda Webster.

Voting booths will be set up at the post office, the Cafeteria patio and the Erhart Agriculture building.

Polls will be open from 8-5 on Wednesday and 8-12 on Thursday.

## Worldscope

By KAREN JORGENSEN, Associate Editor

**GRAND TURK ISLAND**—America's No. 1 astronaut, John Glenn, said he "felt no discomfort" from being weightless in space. The Marine lieutenant colonel was pronounced in excellent condition at the hospital where he is being "de-briefed" after his three orbits around the earth Tuesday.

★ ★ ★  
**SANTO DOMINGO**—The Dominican government decreed a state of emergency Wednesday and rounded up pro-Castro agitators charged with trying to block scheduled general elections. The new government has also authorized the deportation of all politically undesirable elements.

★ ★ ★  
**PARIS**—After seven bloody years, the warfare in Algeria could be ended by March 5 at the latest. The government of President De Gaulle approved a draft cease-fire agreement with the Algerian rebels Wednesday. One of the truce terms was a condition for the self-determination vote that could lead to independence for Algeria.

★ ★ ★  
**SACRAMENTO**—Governor Edmund Brown said yesterday he approves of the seizure of private anti-Communist files from the California National Guard armory in San Diego. General Hill seized them 10 days ago. They contained names of 200,000 suspected subversives and were kept in the armory rent-free for a private, non-profit organization known as the San Diego Research Library.

## Famed Pianist Gives Concert For Students Next Sunday

Wilhelm Schwarzott, newest member of the Music department teaching staff, will present a repeat performance of last month's concert on Sunday at 8:15 p.m. in the Little Theater. All tickets are gone, since acquiring them was on a first-come - first serve basis. No one will be admitted to the concert without a ticket, according to the CU fine arts committee, co-sponsors with the Music department.

A special Chopin arrangement, Beethoven's "Appassionata," and the famous Strauss concert waltz, "Die Fledermaus," are few of the numbers that Schwarzott will present. "Passacaglia," an original Norwegian folk dance by Handel-Halvorsen, will be the opening number on the program.

A native of Austria, Schwarzott studied at the State Academy of Vienna, continuing his studies after the war at Oslo's Music Conservatory in Norway where he was educated as a conductor. He was director of the Klaverakademiet and Wilhelm Schwarzott Piano and Art Institute in Oslo.

### Chamber Musician

The famed pianist, whose interests in music began at the age of 10, is well-known as a chamber musician, having given perform-

ances both in Europe and the U.S. He has performed as a member of the Oslo Chamber Trio, Sibelius Quartet, and the Norwegian String Quartet.

Schwarzott is now giving piano instructions on campus, and with the enthusiasm shown by the students, he says, he will soon need an assistant to help him because of the many students waiting to take the course.

According to faculty and staff members, Schwarzott is a notable addition to the music department. His January performance for the staff met with great acceptance.

In Oslo, Norway, one critic wrote: "Schwarzott's exquisite playing, his delicate interpretation of the crystal clear motives, the broader parts played with warmth and beauty, and the sparkling technique of his pure, clean playing makes his concerts an outstanding experience."

## PROGRAM

SCHWARZOTT CONCERT, FEB. 25

### I

Passacaglia ..... Handel-Halvorsen-Ekman  
Sonata in F minor, Opus 57 (Appassionata) ..... Beethoven  
Anni allegro  
Andante con moto  
Allegro, ma non troppo-Presto

### II

Nocturne in C sharp minor, Opus 27, No.1  
Mazurka in B minor, Opus 28, No.4  
Berceuse  
Scherzo in B flat minor, Opus 31 ..... Chopin

### III

Gangar Opus 54 ..... Norwegian March  
Birdling Opus 49 ..... Grieg  
La Danse D'Olaf, Opus 28 ..... Plek-Manglagall  
Nocturne in D flat major (for the left hand) ..... Scriabine  
Die Fledermaus, Concert Waltz ..... Strauss-Grinfeld

## CU Building Plan Ready

Tentative plans for a new College Union building will be submitted to the State College Board of Trustees finance section by the end of February, Dean of Students Everett Chandler said this week.

Although Chandler said there is "small chance" of getting the plan approved, it still is "worth taking the chance." He explained that Senate Bill 2913 gives the Trustees authority to act upon plans and to authorize funds for activities buildings. It is understood that Federal funds are available on a state-matching basis but details have not been reported locally.

Chandler said "We are not ready to reveal the plan and when it gets to the level of state financing I am not optimistic that it will be approved; the odds are against it."

Other college spokesmen said the activities building—or "College Union"—envisaged for the Cal Poly campus is a \$24-million project.

The college has a reserve fund for an activities building that has been building up for several years from profits of the college bookstore and fountain. Last Fall quarter College business manager Don Nelson told El Mustang that money in the fund amounted to approximately \$884,000 in November.

## Staff Basketball Team Downs Alpha Upsilon

The Poly Staff basketball team, which boasts a 7-1 record, took a pair of victories from the Alpha Upsilon cagers in non-league play. The Staffers, who are currently in second place in the San Luis City League, downed the fraternity five, 58-53 and 48-38.

High point men for the Staffers have been Lynn Hudson, Paul Botts, and Chuck Yonkum. Hudson and Yonkum each have 21 point performances against league foes while Botts is averaging in the double figures.

The Staff team will meet the San Luis Teachers, currently in first place, on March 8 in a tilt which will probably decide the championship. The Teachers hold the only win over the Poly Staff.

## FROM THE EDITOR'S DESK

### A Question; Is There An Answer?

What has happened to us? Have we become so obsessed with the idea of "ultra patriotism" that we can no longer tolerate a free expression of ideas?

Last week Dr. Buell Gallagher, chancellor of the California State College System resigned his post to return to a position at the City College of New York. In submitting his resignation, Dr. Gallagher said, "The personal sacrifice asked of my wife and me was too high a price to pay for continuance in that post." He stated that the "personal sacrifice" mentioned related to pension rights and housing in California.

Are these the only factors influencing Dr. Gallagher's resignation? We don't think so.

Ever since he was appointed to the Chancellorship last April, Dr. Gallagher has been under attack by right wing extremists. They have accused him of being un-American, an enemy of private enterprise and a Communist sympathizer.

The accusations began in a few fly-by-night publications that chose to remain anonymous by listing only post office box numbers as their addresses. No editor's name was mentioned. They distorted statements and actions of Gallagher's to make him look almost as Communist as Khrushchev.

These Birch-type accusations must be considered frightening. The radical left has always been feared in America; now it seems the radical right is the more prevalent danger.

It was these elements that motivated the bombing of the homes of two Southern California ministers earlier this month; it was these elements that accused Eisenhower, Dulles and Warren as being Communist sympathizers; and in our opinion, it was these elements that attacked Dr. Gallagher because he wished the free expression of ideas in the California State colleges.

It was—and in our opinion still is—Dr. Gallagher's belief that college students should be exposed to the many and varied views and philosophies concerning governmental ideals and political systems. He has expressed these views many times, including an interview he had with student journalists on this campus. It was for this reason that he took a positive stand and was not reluctant to allow controversial speakers on State College campuses; it was also for this reason that he was attacked by those groups who apparently feel that college students cannot listen to views that are other than "American" without being swayed.

Why are we going to college? What has happened to the educational objective of searching for truth? J.Me.

## CU Social Committee Hosts Poly's First International Week

"Around the World in 80 days" has been condensed into a week-long, festivity-packed tour around the globe on campus by the College Union Social committee.

"International Week," as they have termed it, will open tomorrow night and will run until March 3.

A foreign student talent show, a South American Mardi Gras dance, a French movie entitled "Paris Incident," soccer games, a panel discussion, and picturesque displays representing more than 25 countries will highlight the seven-day event.

"This is our first attempt at sponsoring an International Week," says Arlene Vokoun, assistant activities director. "It was inspired by the success of our previous International Nights. College Union Social committee feels a little pioneering should be done along these lines to promote better relations and understanding between foreign and American students."

### 30 Countries

As their opener, CU Social committee's talent show, beginning at 8:15 p.m. in the Little Theater tomorrow night, will feature singers, dancers and skits from 30 different countries.

According to Luis Cisneros,

social committee chairman, "30 Latin American students will take the audience on a singing and dancing tour of every Latin American country, and the Iranian students are bringing outside talent from Los Angeles to perform at the show."

Arranged by Greek student Plato Karageorgios, the first of two Sunday afternoon soccer games will be played at the athletic field directly behind the Men's gym. The Latin Americans will be pitted against a European team in the 1 p.m. opener. Teams for the second game were not announced.

"Paris Incident," a French film with subtitles in English, will be shown Monday night in the Little Theater at 7. Admission for the romantic comedy is 25 cents.

### Panel Planned

On Tuesday, Social Science instructor Dominic Perello will act as moderator between three foreign and two American students as they discuss, "How to Improve Relationships Between American and International Students." The panel discussion will be held in Bcl B-5 at 7:30 p.m.

Displays depicting the customs from more than 25 countries will be exhibited throughout International Week at the college Snack Bar.

During the regular College Union hour, Thursday at 11 a.m., three foreign students will show colored slides of India, Iceland and Iran at the Little Theater.

The Saturday night Mardi Gras dance sponsored by the Latin American students, will top off International Week's highlighted events. Students are asked to wear improvised masks to the free dance at Crandall gym, beginning at 9:30 and lasting until midnight.

## Dr. Hensel's Staff Talk Compares Integration

Dr. Donald Hensel, social science instructor spoke at the Staff Club luncheon yesterday on the topic, "Jackie Robinson, Willie Mays, The Freedom Riders and American History." Hensel contrasted Negro integration into professional athletics with Negro integration into social positions. He also compared the methods used in moderate reforms to those in dramatic reforms.

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## Mustangs Whip Westmont; Face Fresno State Saturday

By CHUCK YOAKUM, Staff Writer

Warming up for their upcoming tussle with league leading Fresno State, the Cal Poly Mustangs swept by the Westmont Warriors 81-70 last Tuesday night on the loser's court.

It was the same old story as Rally Roundsville hit 23 counters to pace the Mustangs in the victory. The Poly round-ballers, who held a commanding 46-38 halftime lead, were never headed as they raced into the winner's circle. Jorgensen called off the dogs midway in the second half and the reserves put in one of their few appearances and held their own until the final whistle.

Saturday night's tilt with the Bulldogs figures to be a little different. Led by Mike McPherson, who many call the finest player in Fresno history, and big Ron Neff, a 6-9 center who tallied 24 points against the Mustangs in their first meeting, the Bulldogs have swept to the pole position in the race for the CCAA crown. In the first meeting, the Mustangs upset the Bulldogs 85-71. But the Bulldogs are notoriously tough on their home court.

The game figures to be a scoring battle between the Mustangs Rally Roundsville, who Fresno coach Harry Miller calls "the best all around player in the league," and Fresno's Mike McPherson. McPherson will wind up his collegiate career Saturday night and already ranks as one of the highest scoring players in CCAA history.

Jorgensen will go with his usual starting five of Roundsville and Bob Horwath at guards, Bob Wilmot at center and Ken Anderson and Bill Warmerdam forwards.

For the Bulldogs, Miller will probably start Tom Jacobson (6-4) and George Sarantos (5-8) at guards, Ron Neff (6-9) center, Mike McPherson (6-8) and Tony Burr (6-5) forwards.

Fresno currently holds a 22-13 series lead over the Mustangs.

In Sarantos, the Bulldogs boast the smallest starting center in the United States. Until Bill Engesser of L.A. State ran out of eligibility at mid-term, the CCAA also featured the tallest man in basketball. Engesser stood 7-8.

Cal Poly's Colts will be out to continue their mastery of the Fresno frosh when they meet the Bulldogs in the preliminary game.

Tuesday night the Mustangs will wind up their season when they meet the much improved San Fernando Matadors in San Fernando. San Fernando recently captured their win of the season with a resounding 111-87 triumph over the Los Angeles State Diablos.

The Matadors are paced by Bruce Powers and Dick Crowthers, both of whom are scoring in the double figures lately. Gone is Jim Malkin, the teams leading scorer who finished his eligibility at mid-term. Malkin was averaging 17 points per game.

The Mustangs currently sport a 16-6 overall record and a 6-4 league mark.

### REMINDER

Graduate Manager Bob Spink says that club and organization presidents should be thinking about the kind of booths they want to sponsor at the Poly Royal carnival.

There are nine geographic regions of the California State Polytechnic College Alumni association with a president serving each of these regions.

## El Mustang

California State Polytechnic College  
San Luis Obispo Campus

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## Men Trail Women In GPA 'Race'

Women are smarter than men at Cal Poly. At least they were in the Fall quarter when women scored a 2.48 grade point average compared to a 2.21 GPA for the men.

The student body averaged 2.25.

Age and experience won out when the seniors proved to be the smartest class, with an average of 2.4. Juniors followed closely with 2.3, sophomores had 2.2, and the freshman trailed with 2.1.

A total of 1545 students representing 21 percent of the entire Fall enrollment, did not make the 2.0 required for passing.

"This is not as bad as it ap-

pears," said Registrar Jerald Holley. "There are many factors which enter into students receiving below average grades.

"Many seniors have received W's (incompletes) on their senior projects because they are not completed and won't receive definite grades until they have been.

"Freshmen are naturally going through a period of adjustment and need time to become familiar with college life," he added.

The nearly one-third of the student body represented in the below 2.0 GPA is not technically on probation if they improve their

GPA's to 2.0 in the Winter quarter it was pointed out.

A GPA of 2.0 is a "C" average.

Trinity, Diablo, and Deuel ranked high scholastically among the residence halls.

Trinity led the south mountain dorms with a 2.5 over-all GPA. Diablo was high among the North Mountain dorms with a 2.3 over-all GPA, and Deuel was in the vanguard of College Avenue dorms with a 2.3 over-all.

The GPA according to dorms are Chase, 2.2; El Dorado, 2.3; Fremont, 2.4; Heron, 2.2; Jespersen, 2.2; Lassen, 2.2; Mariposa, 2.3; Modoc, 2.1; Monterey, 2.3; Muir, 2.3; Palomar, 2.3; Santa Lucia, 2.4; Sequoia, 2.3; Shasta, 2.3; Sierra, 2.0; Sonoma, 2.2; Tenaya, 2.3; Tehama, 2.2; and Whitney, 2.3.

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### Around Campus

Election of Cal Poly Business club officers will be held Thursday at 7:30 p.m. in Ag 281. The club plans include organization of a book exchange. Membership in the club is open to any students regardless of major.

Cal Poly will be included in the intercollegiate bridge tournament from Feb. 18-24. The tournament will be held in Lib. 118 from 7-10 p.m. All students wishing to enter the tournament, sponsored by the National College Union and colleges across the nation, will be charged a \$1 entry fee. Bridge hands to be played are preset by the tournament association in New Hampshire.

## What Draws Foreign Students Into Engineering at Cal Poly

By James E. Grundman

Isolated geographically, comparatively undistinguished along side such well-known engineering and technical colleges as Cal Tech and M.I.T., and offering only a minimum of cultural activities in the community, Cal Poly Engineering seemingly should be limited in foreign enrollment. Yet, it attracts engineering students from three dozen countries. What brings them here?

"Climate, friends and inexpensive educational costs."

These are the three main attractions to foreign students in the opinion of a man who has every reason to know: Dean Harold P. Hayes of the engineering division.

"Much as we try not to believe it, we must realize that if it were not for one or more of these three factors, the foreign enrollment in the college's engineering division wouldn't be what it now is."

Climatically, the location of the campus is ideal for students from the Middle and Far East—where the majority of the foreign students are from—because the temperature range, humidity and rainfall coincides with theirs.

### Friends Important

Friends and companions have a great deal of drawing power when it comes to enrollment. Dean Hayes cites a case: A student from Hong Kong—on his way to a university in the east—stopped at Cal Poly to visit a friend, toured the campus and facilities, met other foreign students and never left. He is at present enrolled in Engineering.

"As far as low cost education goes, I think this is self explanatory," says Dean Hayes. "It is an almost undisputed fact that we are one of the least expensive engineering schools on the west coast."

Om P. Tanaja, electronic engineering major from New Delhi, India, and holder of a master's degree in history from Delhi University, verifies this.

"I came here because of the encouragement of my friends. They boasted about the friendly atmosphere of the college and championed the weather and climate. An investigation of the low tuition and breadth of the engineering scope were the clinching factors in my enrollment here."

### Climate a Factor

Rengin Tuncay, architectural engineering major from Turkey, one of few coeds in the division, attributes low tuition and climate as the factors that initially prompted her to choose Poly.

The presently enrolled 180 foreign students represent nearly 10 percent of the divisional enrollment trend. In 1958 there were 12 Indian students on campus. Now there are 38 and 34 of these are in engineering.

Iran boasts 30 in the engineering division of its total of 58 in college. Hong Kong has 22 in engineering out of 45 total on campus.

Of these three countries, 35 students are studying mechanical engineering, 16 are studying electrical engineering, and 18 are studying in electronics, and 18 are studying in architecture.

Dean Hayes and others in engineering believe these departments offer the greatest chance to advance students from foreign countries, because these engineering areas are lagging in underdeveloped lands in comparison to the rest of the world.

A consensus of foreign student enrollment shows 811 students from abroad in mechanical engineering, 33 in electrical, 22 in electronics, 19 in architecture, 17 in air conditioning and refrigeration, nine in aeronautical, nine in industrial, and one in welding and metallurgical.

Categorically, the countries represented range from Afghanistan to Venezuela, with such intriguing lands as Bolivia, Egypt, Guatemala, Greece, Indonesia, Jordan, Lebanon, Morocco, Nigeria, Pakistan, Saudi Arabia, Thailand, and Turkey.

### Mutual Problems

Understandably, foreign students cause some problems—of which international relations is not the least.

"I don't believe that any country could have better ambassadors of good-will than these students when they return home with their engineering knowledge and degrees," Dean Hayes says. "But can you imagine what the people of a country must think of Cal Poly, and this country as a whole, when after a great deal of time, trouble and expense, they send us a student only to have him return home by flunking out?" asks Dean

## Three-Act Play Slated for March 1

"The Male Animal," a three-act play by James Thurber and Elliot Nugent, will be presented in the Air Conditioning auditorium, starting March 1.

The three day run will be the result of time-consuming rehearsals that have been in progress since the early part of January.

The cast for the typical Thurber comedy includes: Neil Norum as Tommy Turner, Marlene Puets as Ellen Turner, Robert Sanders as Joe Ferguson, and Gary Webb as Michael Barnes. Also included in the cast are Karen Grant as Patricia Stanley, Stephen Baum as Wally Myers, Don Miller as Dean Frederick Damon, Millie Manning as Mr. Blanche Damon, Jack Hyams as Ed Keller, Billie Carr as Myrtle Keller, Sally Clark as Cleota, and Mary Dodder as "Nasty" Miller.

Directing the play is J. Murray Smith, with Keith Nielson assisting as technical director. Both are of the English and speech staff.

## Action On Crash

(Continued from page 1) vinced that his legislation will force both the FAA and CAB to insure to a greater degree that no further occurrences of this kind will happen?

"MR. HARRIS: 'I cannot give any assurance as to what the FAA is going to do. This bill places on the Board definite responsibilities in the issuance of certificates for supplemental air carriers. The law itself requires the FAA to assume its responsibility to require safe operation, as safe as it is humanly possible to do.'

"MR. WILLIAMS: 'With respect to the Arctic-Pacific Airline accident, . . . had that plane gone through to its destination without accident and had a report been made to the CAB of the conditions under which that plane took off, I am certain that the question of continuing their certificate, would be a matter of consideration by the CAB.'

Senator Magnuson urges all persons to acquaint themselves with the pros and cons of this bill, and to advise him as to whether the Senate should or should not pass the bill.

Copies of the Congressional Record, Sept. 18, 1961 edition, can be found in the ASB Office and the Library.

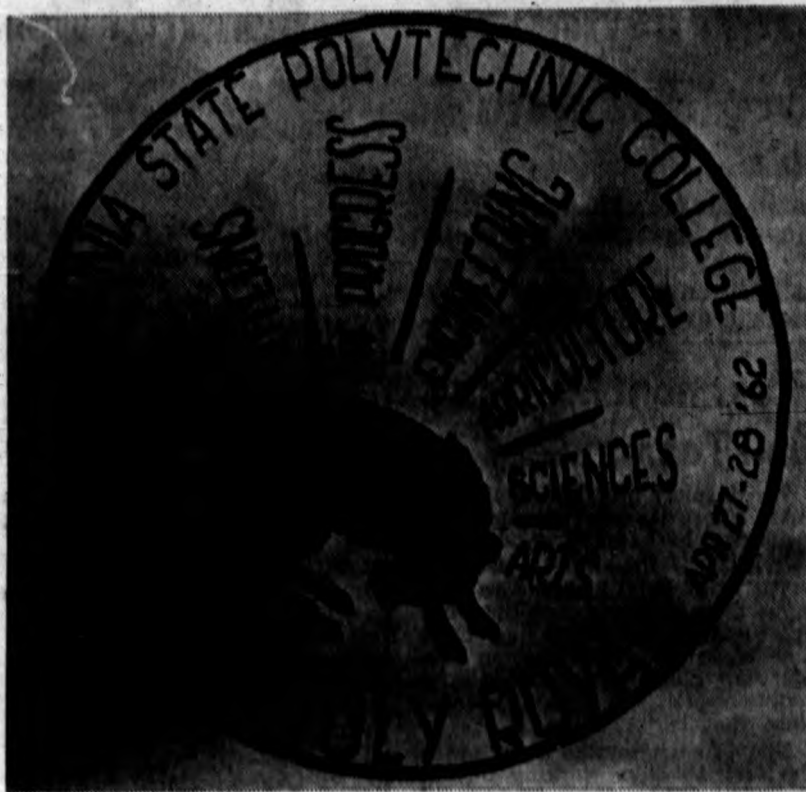
Hayes. "And the sad part of it is that the flunk-out rate for foreign students is nearly double in percentage to that of American students."

Language barriers also create many problems for instructors and students alike. The main pitfall in this area is where the foreign student does not have a thorough grounding of the English language and misses many of the points that should be learned in the lectures. Whenever this happens, it is necessary for him to visit the instructor for a more thorough explanation. This idea is encouraged but it must be understood that it takes nearly five times more of an instructor's individual time. Often, he has no time at all for this extra counseling and attention.

Many foreign students admit to problems in laboratory courses. Basant S. Sandhu, Mechanical Engineering senior from India, explains this problem. Some foreign students never had the opportunity to use such extensive facilities and modern equipment.

"Working with such equipment as this, and getting the practical experience that we do in these labs—regardless how difficult it is for us—is very good."

"On the whole though," adds Dean Hayes, "I think that foreign students are a real asset to the atmosphere of the college because the culture, travel, customs, and philosophies they bring us are invaluable."



POLY ROYAL, 1962 . . . This is what the official Poly Royal button will look like when it goes on sale early next month. The design was submitted by Conrad Sloop, senior ME major from Oroville, who won a \$15 prize from the AG Ed club for the project.

## Young Stage Stars Entertain for CSEA

Cal Poly Chapter 97 were entertained by young people in a night club atmosphere last Thursday night in the Staff Dining room.

Many sons and daughters of faculty members were on the program.

Gerald Bucy, son of Dr. Laverne Bucy, A.H. instructor, was male soloist for the evening. Bari Bloom, female soloist, and daughter of Emmett "Bing" Bloom, A.H. instructor, later did a duet with young Bucy.

Langdon Winner, son of C. Paul Winner, Dean of Admissions, played the piano accompanied by drummer and bass.

Jana Hutcheson played guitar and gave renditions of modern folk songs.

Isaac and Armando Lau, representing Peru, performed an accordion and guitar duet.

### PSYCHOLOGIST AT SIGMA XI

Dr. David Stewart, author of "Preface to Empathy," a book which points the way to a new personal psychology of far reaching dimensions, spoke to the members of Sigma Xi, Thursday in the Staff Dining room. Dr. Stewart, who holds a Ph.D. in philosophy, was formerly chief psychologist at the Bell clinic in Toronto.

## New low-cost luxury in two just-out Chevy II Nova sedans



• Luxury and low cost have never been more beautifully blended than in these two newest additions to the Chevy II line! Like their running mates—the Nova 400 Sport Coupe, Convertible and Station Wagon—they have the same more-for-your-money features that have made Chevy II the winner of *Car Life* magazine's Engineering Excellence Award for 1962. Soft-riding new Mono-Plate rear springs, proved in the equivalent of 2,000,000-plus test miles. Thrifty 6-cylinder engine

that gets more "git" out of a gallon of regular. Body by Fisher roominess that fits big families and small parking places. An easy loading vacation-sized trunk. New ideas that save on upkeep. Plus trim, tasteful styling, inside and out. See the smart, sassy, saving Chevy II Novas—and the other sensibly sized, sensibly priced Chevy II models—at your Chevrolet dealer's.

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100 2-Door Sedan



100 2-Seat Station Wagon

See the new Chevy II at your local authorized Chevrolet dealer's

## 'Viewpoint' Expresses Campus Opinion on Wide Range of Topics

### Action for Pasha

EDITOR:

I know I'm digging up buried bones in writing this, however I feel that the answers to the question Pasha presented to this campus need something added to them—a solution.

When Pasha wondered why he felt unwelcome here, we tried to shift or add to the blame—not solve the basic problem. A situation similar to ours existed at the University of Kansas last year. The students there arranged for foreign students to meet with student leaders in order to air their grievances. As a result of this meeting, a "People to People" council was established to help foreign students become better integrated to American life, and to help them in any other way possible. The council was given official recognition and office space in the College Union.

Approximately 60,000 foreign students attend colleges and universities in the United States each year. And according to an article recently published in the Wall Street Journal, "nearly half will go home mad at the United States." Why? Because few people show a personal interest in them.

We are faced with a very real problem on this campus, and I challenge Cal Poly to act on it. Instead of throwing Pasha's questions back into his lap, let's answer it.

We are here to learn. If we learn to understand other peoples, other cultures and other religions through the exchange of ideas, then this is where we get our education. Each individual has a unique worth and dignity. Who are we to deny the value of any group on our campus? Action, not lip service, is what we need.

Mary (Duteh) Dodder

### Lauds Health Center

EDITOR:

I just got out of the Health Center after a case of the "red spots," and would like to say a big THANK YOU to the wonderful staff there! From the viewpoint of one who's been in, Cal Poly can be proud of its health workers. (Thanks to all the "note runners," too.)

Ex Patient

### 'Explosion' Theory

EDITOR: I disagree with your "Big Population Explosion" Poly Pooled for Answer" article of Jan. 30. Six peoples' opinion do not constitute a "poll." You did not take the time or effort to question more than one student out of eight hundred on campus, so I would like to express an opinion.

I heartily disagree with the data and statistics given. From "The Sign" magazine, "the world's population is increasing at the rate of one-and-a-half per cent per annum." This roughly doubles the population every 50 years and in 200 years there would be between 16 and 20 times as many as now.

The opinions ventured did not really face up to the power of the population problem. Perhaps the Social Science instructors and students should drop by the Biology department and learn about the power of reproduction. They should then go to the Math department and brush up on their exponential curves.

In answer to Bonnie Johnson, "The mills of God grind slowly but they grind exceedingly fine." Sticking our heads in the sand will not solve the problem. The people of the earth, and not the earth itself, will have to develop some way to expand our food supply and contract our population increase.

I agree with Christopher Robin "... we will have to utilize the sun's energy, the undersea farmland..." I think his idea of birth control could help...

Ronald N. Longacre

### Book Exchange Plans

EDITOR:

This is in reply to the letter entitled, "Book Exchange," in El Mustang on Feb. 2. For the past month, a group of interested students has been considering the feasibility of a book exchange service here.

We feel that this campus is in dire need of such a service. So long as El Corral Bookstore fails to provide a satisfactory method of buying and selling used books for the students, we feel that any objections to our service from their direction should be considered as having absolutely no foundation. Therefore, until the abnormal number of "Books for Sale and Books Wanted" signs disappear from the campus bulletin boards, we will continue with our plans.

If all goes as scheduled, we will be in operation in about six weeks.

R. L. Mitchell

### Ode to Americans

EDITOR:

Once there was a student from Poly  
Who threw food for fun and folly  
Fie! you say, Fie! from all of us.  
But when asked why he did do thus

I'm vain for an answer, he thought  
But came out with the answer,  
"Why not?"

This is with what we must deal.  
Americans who cannot feel  
Minds that cannot see the sadness

Minds that search only for gladness  
Let it not be said tomorrow  
That we caused our own sorrow

Let us awake and turn the tide  
And bring back some of our own pride!

Steve Canada

EDITOR'S NOTE: And throw some of that food in our mouths for a change!

### IRE Speaker Explains Methods Of Undersea Object Detection

New methods to detect underwater objects, equivalent to submarine detection, were the subject of a technical talk given to the Institute of Radio Engineers by Charles Peterson Thursday evening.

Peterson who received his M.S. degree in electrical engineering from Cal Tech and a B.S. degree from UC in Santa Barbara, entitled his talk "Underwater Acoustics." He covered some specific aspects of processing active sonic signals.

Peterson is head engineer on the central engineering department of General Motors, Santa Barbara.

### 25 Feature Writers To Publish Articles

Twenty-five special articles featuring the Cal Poly Engineering Division and its departmental programs have been written by the Feature Writing class students in Technical Journalism and will appear in the San Luis Obispo Telegram-Tribune.

During Engineering Week, now going on, and in later special sections including the annual Poly Royal edition of the T & T, the articles will be published under bylines of the student authors.

Instructor Vince Gates said student writers participating are Pat Ball, Ron Galves, John Hotaki, Jim Grundman, Kay Thorne, Ralph Hinds, Penny Gardner, Jim Halstead, Diana Vos, Carol Gilmour, Karen Jorgensen, Frances Lane, William Todd, John Young, John Wilson, Judy Kurimatsu, Charles Drummond, Bill Rice and Francis McCann.

### Sub-Standard Food?

EDITOR:

This is in reply to Steve Canada's comment (Jan. 26 issue) that perhaps we are too ignorant to comprehend the fact that over half the world's population is starving; therefore, we disgust our foreign students by complaining about the cafeteria food.

It seems to me that a man should produce the best quality he can from what he has to work with and what talents he commands will determine the final product. This goes for the production of cars, students, or food. In our particular culture, the cafeteria has the best raw materials and, if they want it, cookbooks containing the culmination of the world's cooking art. I do not expect our cafeteria to be Ernie's of San Francisco; but need it be as bad as, or worse than a cheap "greasy spoon?"

We who complain are not unaltruistic, ignoramuses, oblivious to the harsh facts of life; but people who know and expect the quality we pay for. And we will continue to complain as long as the cafeteria's products are sub-standard for our culture.

John Spreits

### Nailcrate Salad?

BY A STAFF WRITER

Journalism student Wayne Cox is a native-born, Covelo, California resident 99 percent of the time, but when you ask him the ingredients of chop suey, he's from Missouri.

Labeled a Chinese dish, but actually originated in America, chop suey contains a chief meat entree (chicken or pork) and vegetables—celery, onions, bean sprouts and corn starch—but not "lettuce crate nails."

Last week in the college cafeteria, Cox was munching away at an appetizing plate of chop suey when he bolted from his seat like a projectile fired from the barrel of a 106 howitzer, complete with noise and recoil.

An elaborate series of moans and groans, intermingled with choice words and phrases not commonly used at the lunch table, immediately followed the sudden outburst. From his mouth, the angered but unhurt Cox extruded the head-half of a lettuce crate nail.

As on-lookers chuckled, Cox yelled, "I don't mind a protein supplement like a worm in my salad now and then, but a nail in my chop suey is just too much!"

Cafeteria manager Jack Bertram said he could not account for the nail's presence in the chop suey.

### Budding Newsmen Offered El Mustang Editorial Positions

Students interested in working on the staff of El Mustang in Spring Quarter for credit and who want to acquire some experience before then are welcome at this time, Editor Jim McLain announced.

"A student does not have to be a Journalism major to write for the paper," McLain emphasized. "Since El Mustang is a student paper any student on campus is eligible to join the staff."

He noted that plans are underway for enlarging the size of the paper in order to accommodate more news and features. "This will require a larger staff," he pointed out. "A few hours a week in writing for the paper can be rewarding. We work in the new Graphic Arts building and conditions are excellent."

He said any student interested may see him or the paper's advisor, Vincent Gates of the Technical Journalism staff in Graphic Arts 226.

## College Airstrip Policy Explained By Aero Engineering Dept. Head

By PAT BALL, Staff Writer

Ask almost any Poly student something about the college airstrip and he's likely to look blank or admit he knows little about it.

A prominent campus facility—particularly from the air, naturally—the airstrip evokes a lot of interest among students and visitors.

That's why El Mustang went to the man with the answers—Charles P. Davis, Aero Engineering department head. He replaced Joy O. Richardson this quarter—in a way—trading jobs with him in M. E.—and he, too, realized that a lot of questions are asked.

Admitting the question of policy has seemingly been "up in the air" for some time, Davis said, "Instead of laying down a set of regulations for the airstrip, I would rather explain that the strip is a college facility for students and that its use is encouraged."

He said this is state college property, available to any qualified pilots who have business which brings them to Cal Poly. Students are invited to use the airstrip when they come to the college to see the admission officer, to reg-

ister, or for any other legitimate business.

Davis reports that overnight tie-downs are available but that there are no provisions for storage or service of airplanes, such as gas or oil. The hanger is occupied with equipment used in instructional programs.

The department has no courses which deal specifically with flight training and does not offer flight instruction. However, it does encourage qualified members of the Mustang Flying Club to use the airstrip, and in some cases aero students are licensed instructors and can be contacted for flight instruction.

Davis warns that the college cannot be responsible for accidents which might result from unauthorized use of the airstrip. It is listed as private on all FAA (Federal Aeronautics Administration) maps, and is understood to be used primarily for aircraft. This restricts all vehicular and model plane traffic, to facilitate safety purposes.

Leo Philbin, Aero Engineering instructor, is supervisor in charge of the air strip facilities, and further inquiry may be directed to him at extension 277.

## El Mustang Has New Facilities

By JULIE DRURY, Staff Writer

If you have seen the old El Mustang offices hidden in the dark recesses of the Administration building, you will understand why many Journalism majors have a peculiar squinting gaze.

Happily ensconced in brand spanking new offices in the Graphic Arts building, Technical Journalism has come up in the world of Cal Poly—to the second floor of Graphic Arts.

Once there were only 700 square feet of floor space for desks, typewriters, tables, chairs and a small staff. Today TJ has 6074 square feet of breathing space, brand new typewriters (that still type errors), new desks, a custom made copy desk, a study room, and still there's room for more TJ majors to join the department.

The department's facilities aid the training of students to become competent writers in many fields. Four years ago there were 21 majors. Now, with a 30 per cent increase over last year's winter quarter enrollment, they number 75.

Courses offered in the department include history of journalism, editorial and feature writing, reporting, editing and copy desk, advertising methods and layouts, press and free-lance photography, public relations, and radio advertising.

Journalism students not only learn to write, they learn to write in specialized areas. Agricultural Journalism, Community Journalism, Industrial Journalism, and Home Economics Journalism are the occupational specialties offered.

What is a journalist's function in the world? It is to provide the public with up-to-date news, features and photos on every subject.

El Mustang, the student paper, is one device used in training student journalists. El Rodeo, the yearbook, is another. Other devices which provide learn by doing experience include work on the "Herdbook," the student directory; special projects such as Engineering Week newspaper supplements, photo bureau and news bureau. The Graphic Arts building houses new classrooms, a complete photography lab, a newsroom, a business office and staff offices. The printing department also is housed in this building convenient to the news facilities.

### Not Superstitious

## Hammitt Unscared By 'Dire' Eclipse

When seven planets orbited within a narrow band of the sky one day this month and a solar eclipse occurred it was a manifestation of the world's end, some foreign students on the Cal Poly campus believed. Had they listened to Physical Science instructor Lewis Hammitt, however, their fears could have been averted.

Hammitt, a member of the American Astronomical Society whose doors are open only to selected scholars of astronomical research, said the predictions of dire consequences anticipated by some people were "superstitious." He said these derived from man's early history before people knew what was happening. As it turned out after the Feb. 4 eclipse, Hammitt was right; the sun is still shining and the planets are headed back into their normal orbits.

Many people in other parts of the world thought the combined gravitational pull of the seven planets of the ancients would "pull the earth off its orbit" or flip the earth 90 degrees, leaving the poles in the present plane of the equator. Astrologers predicted floods, droughts, earthquakes, plagues, tidal waves and assorted other calamities and disasters.

But while millions abroad and a few on campus were expecting the worst, Hammitt observed the effects of the partial solar eclipse from the Sunset Palisades near Shell Beach. He had a clear view to the horizon to watch the phenomenon at sunset on Feb. 4 but a fog bank interfered when the sun was about 30 percent covered.

Before another solar eclipse occurs—due for July of 1963—Hammitt wants to both photograph and make time-lapse motion pictures of the solar atmosphere during the sun's fade-out. Anyone who wants to wait for the next grouping of the seven planets will have to mark May 5, 2000 on their calendar.

The Kellogg-Voorhis Campus of Cal Poly is composed of two practically adjacent units—the Voorhis unit, acquired in 1938, and the Kellogg unit, acquired in 1949.

## Aero's Glider Nears Time For Test Flight

By PAT BALL

Visualize a group of students saving, scavenging and hoarding until they have what looks like a truckload of trash... a nut here, a bolt there, a jaunt to the junkyard, a midnight trip to the maintenance scrap pile. Human pack rats? On the contrary, they are senior Aero Engineering majors preparing one of the most challenging enterprises ever attempted at Cal Poly in Aero.

After three years of painstaking construction, the "Vagabond," a senior project glider, is at last undergoing final touches before being put through its rigorous test flight program. Begun as a design idea by Aero instructor Bill Werbeck in 1958, the experimental glider has been a senior project ever since that time when the first plans and blueprints were drawn up.

The glider is being constructed entirely from discarded or surplus material, the only purchased items being the wheel, release and instruments. An enthusiastic as the students, instructor Leo Philbin is now in charge of the project.

After much discussion, long seminar sessions, and design work, construction officially began during fall quarter, 1958.

The first class of seniors began with a standard wing taken from a Piper J-3 and built from there on the fuselage. Both the fuselage and the tail section are built of fabric-covered Chrom-oly (Chromium-Molybdenum) tubing. Because a glider needs extra stability, the tail assembly is much larger than that of power-driven aircraft.

The nose cone and fairing apparatus, which is located behind the cockpit, are the only two items on the glider made of Fiberglass.

A hefty 550 pounds, the craft is seven feet four inches high, 80 feet wide, and 10 feet 10 inches long. Instruments include air speed indicator, altimeter compass, ball leveler, and variometer. The latter indicates the rate of climb.

First test for the glider will consist of a ground tow by a cable that will be attached to the back of a car. Because the taxi tests will be conducted at least three feet above ground, the stability of the glider's single wheel and skid will be analyzed.

If all the the "bugs" are ironed out during this preliminary experiment, FAA (Federal Aeronautics Administration) will be called in to put the craft through its own flight testing program.

Since one of the most difficult glider operations is landing, the Vagabond is equipped with a spoiler mechanism to prevent thermal updrafts from pushing the craft upward. Updrafts may be particularly bad off on an asphalt runway on a hot day and, were it not for this spoiler system, Philbin says the glider might not touch down until the runway ran out of asphalt.

The Vagabond constitutes a "first" in the history of Cal Poly powerless flight. Because the project is unique many problems in construction had to be solved by trial and error—simply because there was no previous record of such experience on campus.

How well will the glider stand up under the rigorous flight tests? Philbin isn't sure. "Since this has been a problem from the beginning, we aren't able to make completely accurate predictions," he admits.

One of his chief worries is the possibility of instability that may be caused by the great area of the tail section versus the relatively small surface area of the boom.

## 1962 FOOTBALL SCHEDULE

Sept. 22	— San Diego Marines
29	— San Diego State College*
Oct. 6	— San Fernando State College*
13	— Fresno State College*
20	— Arizona State University* (Homecoming)
27	— Long Beach State College
Nov. 3	— Los Angeles State College*
10	— University of Santa Clara
16	— University of California, Santa Barbara

(\*Denotes home games.) All games 8:00 p.m. except Homecoming 2 p.m.

## Computers Lure Freshmen To Special Saturday Class

By NEIL NORUM

Surrendering a good portion of Saturdays to study computers is not everyone's idea of a relaxing weekend. But at Cal Poly a large group of freshmen are doing just that in the Electronic Engineering department. They willingly sacrifice free time on Saturday to gain an understanding of what the

new tool, the electronic computer, can do for man in society. The tools in the study are the Donner analog computer and the Bendix G-15 general purpose digital computer.

Introducing students to computers must start early in the engineer's college work, Poly instructors believe. Therefore the Electronic Engineering department holds the voluntary computer course for a number of freshmen. As in any new development, the introduction, is first semi-compulsory at the senior level, voluntary at the lower level.

A computer is not just a super slide rule; nor is it a genius or a brain. It has no intelligence until a human being endows it with human information.

According to some experts these electronic devices will ultimately produce at least as great a change in philosophy and world outlook as did the Copernican concept of the sun as the center of the solar system. Colleges are embarked on a job to prepare students to handle this change gracefully. The challenge to meet the change has been accepted by the freshmen in the EE department.

### They Look Mysterious

Analog and digital computers are new and revolutionary tools in engineering. Unlike the Oriental abacus, the slide rule or the desk calculator, modern computers are able to solve problems of enormous complexity and magnitude—but only when activated by highly skilled people. By itself, a computer can do nothing but occupy space and look mysterious.

As a result of computers, broad areas of graphical and computational development, particularly in mechanical and civil engineering, have become obsolete almost overnight. Engineering personnel engaged in computational activities are being replaced by computers as the machines become more available and their scope becomes better understood by engineers.

Engineers must develop and interpret physical phenomena in analytic terms which can be transmitted to the computer for solution. Then the engineer must be able to interpret the significance of the computer solution in terms of the real problem. This does not mean that the engineer must be trained as a computer programmer.

This is the job of the computer operator.

### Math Change Looms

In addition to demonstrating an understanding of how and where the computer can be of assistance to the engineer, these machines of infallible memories are now beginning to seriously change the mathematics which engineering students study in college. Progressively less curriculum time will be given to train engineers to do what computers can do for them. Hereafter, more curriculum time will be given to determine what computers can do for the engineer.

Less time will be spent in detailed calculus study of the differentiation and integration of complex algebraic functions. This will make time available for the study of numerical analysis to prepare students to understand how the computer handles a problem.

All this is to say that the Poly voluntary computer class is trying to learn how man and the computer can co-exist without causing a socio-technical revolution that could destroy the human in society.

## WRANGLERS

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## Machine Shop Is Odd Course But Teaches Needed Skills

BY JUDITH KURAMITSU

Universally, education has a two-fold purpose: to seek out knowledge and to make it widely known. If this sounds like a pedantic proclamation, it isn't. At least not in the Machine Shop department at Cal Poly.

If "machine shop" sounds like a course in operating foundry hammers and noisy lathe whirring like a million dervishes, better visit the department run by Francis Whiting and his faculty of skilled craftsmen who teach 600 students the mechanical mysteries of American industry. Your visit will be an eye-opener.

Within the doors of the Machine Shop, is an odd concept of the "classroom." Here, instead of desk and blackboard, are lathes, drill presses, and shapers. Instead of notebook and pen are screwdrivers, wrenches and saws. In addition, class assignments take the form of making bolts or shaping a rough piece of iron. No matter what, the end product is graded not on the basis of spelling and grammar but on accuracy of dimensions, smoothness of finish and overall usability.

Tim Forrester, sophomore Physical Science major from San Jose, is running a milling machine. What does this have to do with physical science?

He shuts off his machinery. "Well, I have an idea for a new

Husband: "Honey, I just found oil on our property!" Wife: "Well dear, now we can buy that new car." Husband: "No honey, I believe we better get the old car repaired. That's where the oil is coming from."



Suppose you heard about the clegymen, who recently compiled a list of 720 vices? Yes, he claims he has been swamped by requests for copies from people who think they may be missing something.

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## Seniors To Leave Gift Of Pendulum to College

Traditionally each year's senior class leaves a gift to the college. Cal Poly's gift from seniors in June will be a Foucault Pendulum. The pendulum, which follows the earth's rotation, will be placed in the Science building in the corridor next to the Physical Science department.

A contest was held to select ideas for the class gift. Linda Arnold won the \$25 prize for her suggestion of the pendulum.

Architectural engineering student Richard Sullivan is presently drawing up the plans for the pendulum.



**DONATION FROM THE HEART** ... Long-time Crops Department head, Paul Dougherty is shown presenting a \$185 check to Crops Club president, Norman Campbell. Dougherty's gift will make the

future plans for the active club possible. Senior projects, trip expenses, and outstanding student scholarships will be realized from one man's generosity. (See story, page eight.)

## Engineering Staff Members Have Had Interesting Lives

By RALPH HINDS

Just as there is no room on the Cal Poly campus for "Ivory tower" professor types, neither is there room in the Engineering Division for faculty members whose lives have been only blueprints and buildings.

This isn't to say that Poly's cosmopolitan staff in Engineering, which numbers many foreign born and foreign educated men of storybook backgrounds, is a service

club of "hardware" handlers, either!

But, since a popular image of an engineer-professor is a distorted picture of a man possessed by one track theories and a cerebellum lined with electrical-electronic symbols and short-circuits, let's look at some of the "typical" backgrounds in Poly Engineering staff circles.

Take Harold P. Hayes, dean of the Engineering division which is the largest at the college (this fact surprises many visitors who still retain the "Ag" image of Cal Poly). Dean Hayes has a colorful history that would appeal to any young man, interested in engineering or not. Hayes was a submarine officer during World War II. He could tell you how it feels to be stalked by a Jap destroyer bearing down on his "sardine can" housing a hundred or more American boys and men, and the stark realism of war expressed in exploding "ash cans" as the sub lies dead on the bottom of the ocean.

The Engineering staff and students don't know this vignette about the dean. They do know though, that he worked on the B-29 gunfire control system after five years with General Electric as a development engineer. And that he then returned to his alma mater, University of Santa Clara, as head of Mechanical Engineering for five years before Cal Poly lured him to the San Luis Obispo campus. What motivated this shift? He explains it simply: "I had confidence in the Cal Poly engineering program and I had a strong desire to promote it."

Another World War II background is attached to James McGrath, head of the Air Conditioning and Refrigeration department, the only one of its kind in the country and a real industry-oriented department.

"Jim" McGrath's broad knowledge becomes apparent when a visitor talks to him for only a minute or two but he tells you little about himself. They'll never learn from him that he was captured by the Japanese in the Philippines and flung into a miserable concentration camp that would have left deeper scars on lesser men.

A peaceful, internationally-edified man, McGrath never lets the press know about his contributions to person-to-person diplomacy. A short-wave "ham" operator, he has put his thousand-watt transmitter to excellent use in his Morro Bay home to benefit foreign visitors and students at Poly. Once, for example, a visitor from Panama was unable to keep his mind on his work at a Cal Poly workshop for foreign educators because he was worried about a serious illness in his family back home. McGrath fixed things up quickly. He took the visitor to his home, made contact with another ham operator in Panama and hooked up a telephone circuit to the man's family

home. They talked for an hour to family members over Jim's set and Cal Poly had made another lifelong friend abroad.

"Russian engineer taken by the Nazis to Heidelberg, Germany and eventually ends up in the happy clutches of the United States Army." What sounds like the plot of a novel is an actual experience in the life of Alexander Landyshev, Electrical Engineering instructor at Cal Poly.

Working as an engineer, Landyshev was in Southern Russia when the Nazis started their occupation in 1942.

The Nazis took him, his wife, Soja, and two young sons to Heidelberg, "borrowing" him for highly specialized work. Five years later during the American occupation, Professor Landyshev (Continued on page 8)

## Hoop League At Midpoint

Jim Clark's Intramural Basketball tournament reached midpoint this week as 15 teams remain undefeated with two or three games left to be played in the respective leagues.

The 7 p.m. Wednesday league has progressed uninterrupted, allowing each team to complete three games. The Buffalos have chalked up three wins for a perfect record; I. R. E. and Swim Team are locked in second place, each having two wins and a loss.

Wednesday's 8 p.m. league has the Gatlin Raiders and the Ineligibles tied for first place with no losses and three wins. The Spur Twisters have a consistent three loss tally, and the Horseholders registered one win against two losses.

Sequoia Heights and the Castoffs (Tenaya 1st) each have two wins and no losses in the 7 p.m. Monday night league. Hewson House and Tenaya's 3rd floor team are likewise deadlocked for first place in the 8 p.m. league.

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## Retired Crops Head Gives Aid to Club

Paul Dougherty, retired head of the Crops department and a man still interested in young people in agriculture, has given \$185 to the Cal Poly Crops club for additional scholarship awards to be used for outstanding senior projects. The awards will be made in May at the club's annual banquet when other prizes are presented to Crops majors for outstanding activities and scholarship.

Realizing the importance of senior projects as devices to assist agriculture generally and as an entree of many students seeking work after graduation, Dougherty believes this "learn by doing" concept is worth rewarding for excellence. He offered the money to stimulate interest in the Crops club's activities and as an incentive for high professional and scholastic achievement.

A cash award of \$25 will go to the first place winner, \$15 to second place and \$10 to third place. The ex-department head, who retired in 1956, has underwritten many of the costs of the club's

annual banquet in an effort to generate greater interest in his favorite organization. Crops club officers said they hope the additional money in the club's coffers also will permit part payment of travel expenses to students who attend professional improvement meetings.

## Scheer Interviews Foreign Students

In an effort to achieve better understanding between Cal Poly international students and the townspeople of San Luis Obispo, Arnold Scheer, Crops instructor, and Leonard DeRuitter, senior student from Hanford, have instituted a regular radio interview show.

Scheer, former radio newsmen and teacher of agriculture in the San Joaquin valley has turned over one day of his regular daily farm program on KSBY to air interviews with foreign students. He and DeRuitter conduct the program at 12:10 p. m. on Thursdays.

Agriculture and its problems in all countries of the world will be discussed by the foreign students, as well as topics of broad interest and social ideas, according to Najib Hamdan, fruit production major from Lebanon who is liaison for Cal Poly students wishing to appear in interviews. He or Scheer should be contacted by interested students. Hamdan may be reached at post-office box 1408 on campus.

Graduation with honors is awarded to those graduates who have accumulated a 3.1 grade point average or better in all studies at college.

## Landyshv

(Continued from page 7)  
Joined the U.S. Army engineers. He came to the United States and found some of his relatives in the displaced person's camp in San Francisco.

After working for a number of engineering concerns, Landyshv became an assistant professor at the University of California at Berkeley in 1954, and left his post there in 1959 to join the Cal Poly staff.

Landyshv points out that he and his family are now U.S. citizens. "I love the San Luis Obispo area and campus here."

Though the trials and tribulations of those involved in the Berlin crisis may seem far off to most of us, this isn't the case with Gerhard Heine, Industrial Engineering instructor.

Heine was born, reared and educated in Berlin and worked as an engineer there until coming to this country in 1947. He left behind many relatives living in both East and West Berlin. One Aunt and Uncle live in East Berlin while their children live in West Berlin and are forced to communicate by mail only.

He was raised in what is now East Berlin and received his technical education at Gauss Institute in that city. In the United States, Heine worked outside the engineering field while brushing up on his English. The last ten years of his Engineering career was spent in the machine design field in the U.S.

This is Heine's first teaching position. "I chose Cal Poly because I am very much in favor of the college's 'Learn by Doing' program," he says.

An example of the foresight of the engineering division was the appointment of Charles P. Davis as Department head of Aeronautical Engineering. Looking ahead and keeping up with the industry brought Davis to his new position at Cal Poly.

Davis who has nine years of teaching experience and seven years with industry has gained a wealth of knowledge in the new and fast moving field of missiles.

His design and development experience includes working on the guidance control system and fire control system for the B-36 aircraft and thrust control unit for the J147 jet engine propulsion system of the F-36 aircraft. He has also worked on project Hermes, one of the early ballistic missile projects. Sidewinder missile and the guidance system for the Atlas missile.

Cape Canaveral was the site of a large part of his field work on his last project, development and design for the Polaris missile.

About the 84 members of the Engineering Division, Dean Hayes says, "You name it and we have someone who has done it or worked on it."

## Coeds in Engineering at Cal Poly Invade 'Man's World' Effectively

By CAROL GILMOUR

Women aren't new as engineers by any means. Wasn't it a woman whose face once launched a thousand ships?

At Cal Poly—a long gap from Grecian seas—14 women are now matching wits with 1,653 men in Engineering. And if you left it up to Clarence Radius, head of Electronics, there would be a lot more of them.

According to Radius, there are no formidable barriers to women in the field of electronics. One of his present coeds is an example that women can do as well or better than men in the field usually thought of as a man's world.

Proof of this is Linda Miller, the girl from Medford, Oregon, who walked off last Spring with a high honor previously won by men—the Western Electronics' Manufacturers' Association scholarship.

As a freshman, she competed against 450 well-qualified young men, and became the first girl in the 61-year history of the college and nine year history of the

association's presentation to receive the award.

Women are a growing factor in engineering education in colleges today. Cal Poly's female contingent is enrolled in the aeronautical, industrial, electronics, mechanical, welding and metallurgy and the architectural departments. And they're holding up well in the industry, too. They're found in the drafting rooms, at design tables, in the shops and at the lathe as well as in administrative jobs.

Mrs. Sheehan previously worked at Lockheed in Sunnyvale where some 250 women are involved in all branches of engineering. A graduate of Purdue University with a master's degree from the Illinois Institute, Chicago, Mrs. Sheehan wouldn't trade places with anyone. "It's wonderful," she

says, "Engineering is a rewarding and interesting field for any girl."

Cal Poly's engineering coeds are doing at least as well as fellow male students, says Harold P. Hayes, division dean. "When a girl decides on a career in engineering, she has a definite interest in it as well as being doubly sure she is capable of meeting the requirements."

"We're very proud of them," Hayes smiles, "and wish we had more young ladies in this new frontier for women."

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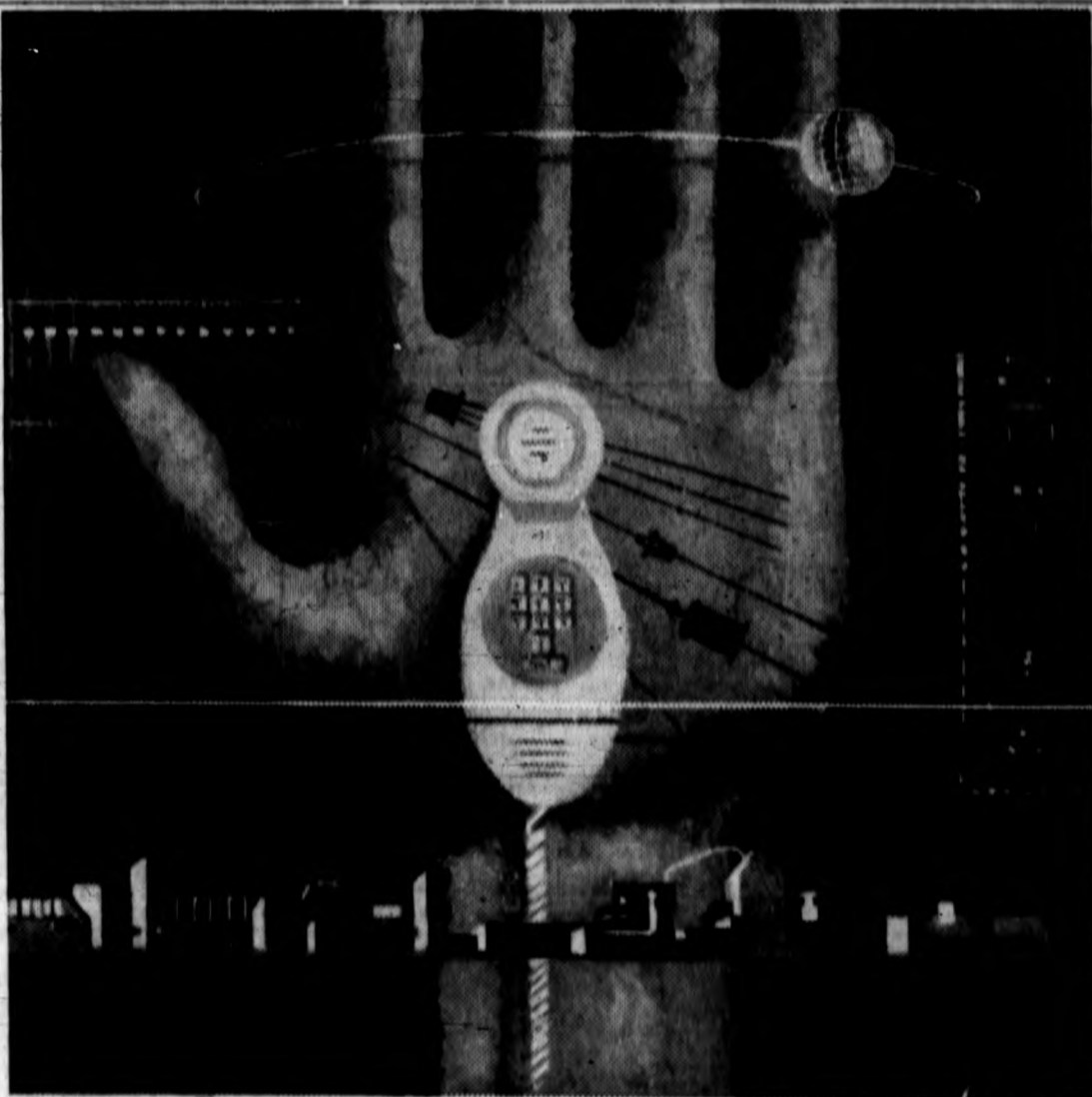
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