

# WELCOME TO 30th POLY ROYAL

Campus Clubs Offer  
Many Exhibits  
See Story, Page 13



## El Mustang

CALIFORNIA STATE POLYTECHNIC COLLEGE

Dr. Ferron Losee  
Honored Guest  
See Story, Page 2



Poly Royal Queen Jan Madsen extends a hearty welcome to all visitors attending Cal Poly's 30th annual Poly Royal today and tomorrow. Representing but a few of the many Poly Royal festi-

vities are (clockwise) the "Firehouse Five Plus Two," the livestock showmanship contest, the annual barbeque and the intercollegiate rodeo. (Montage by Grundman)

THURSDAY, APRIL 26		SCHEDULE OF EVENTS			
8:00 p.m.	QUEEN'S RECEPTION, Home Economics Wing, Math & Home Ec. Building		DISASTER FOOD & SUPPLIES DEMONSTRATION, Math & Home Ec. Bldg. Rm 121	11:00 a.m.	DISASTER FOOD & SUPPLIES DEMONSTRATION, Math & Home Ec. Bldg. Rm 121
8:00 to 12:00	SQUARE & ROUND DANCING, Crandall Gym	2:00 to 4:00	EDUCATION DEPT. COFFEE HOUR, Ag. Education Bldg. Lobby	11:00 to 1:00	STEAK & CHICKEN BARBEQUE, Poly Grove, Student Dining Hall, Staff Dining Hall
8:00, 10:00 & Midnight	MOVIE, Little Theater	3:00 p.m.	FOODS DEMONSTRATION, Math & Home Ec. Bldg. Rm 123	12:00 noon	CAL POLY BAND CONCERT, Administration Lawn
FRIDAY, APRIL 27		3:00 to 4:00	AFTERNOON CONCERT, "FIREHOUSE FIVE PLUS TWO", Little Theater	12:30 p.m.	BASEBALL GAME, Cal Poly vs. San Jose State, Baseball Field
7:30 a.m.	HORSE SHOW, Collet Arena	3:30 p.m.	MATH CONTEST AWARDS PRESENTATION, Air Conditioning Auditorium	1:00 p.m.	FOODS DEMONSTRATION, Math & Home Ec. Bldg. Rm 123
9:00 a.m.	DISASTER FOOD & SUPPLIES DEMONSTRATION, Math & Home Ec. Bldg. Room 121	5:00 p.m.	EXHIBITS CLOSE FOR THE DAY	1:30 p.m.	INTERCOLLEGIATE RODEO, Collet Arena
9:30 a.m.	MATHEMATICS CONTEST REGISTRATION, Mathematics Wing, Math & Home Ec. Bldg.	6:00 to 12:00	CARNIVAL, Men's Gymnasium Area	2:00 p.m.	DISASTER FOOD & SUPPLIES DEMONSTRATION, Math & Home Ec. Bldg. Rm 1721
10:00 a.m.	POLY ROYAL OPENING CEREMONIES, Library Lawn	7:00 p.m.	AG. ENGINEERING BANQUET, Staff Dining Room	3:00 p.m.	FOODS DEMONSTRATION, Math & Home Ec. Bldg. Rm 123
	ALL EXHIBITS OPEN TO PUBLIC	8:00 to 12:00	CARNIVAL DANCE, Men's Gymnasium	5:00 p.m.	ALL EXHIBITS CLOSE
11:00 a.m.	FOODS DEMONSTRATION, Math & Home Ec. Bldg. Rm 123	SATURDAY, APRIL 28		6:00 p.m.	CAL POLY PRESS ASSOCIATION BANQUET, Elks Club
	ARTIFICIAL INSEMINATION DISPLAY, Dairy Unit	8:00 a.m.	LIVESTOCK SHOWMANSHIP CONTEST, Track & Athletic Practice Field		POLY ROYAL PIONEERS BANQUET, Snack Bar
	SHEEP DOG TRIALS, Football Stadium	9:00 a.m.	DAIRY SHOWMANSHIP CONTEST, Dairy Pavilion		MAT PICA PI, The Breakers, Morro Bay
	DISASTER FOOD & SUPPLIES DEMONSTRATION, Math & Home Ec. Bldg. Rm 121		ALL EXHIBITS OPEN TO PUBLIC	6:30 p.m.	SOILS DEPARTMENT BANQUET, Staff Dining Room
12:00 noon	MATH CLUB LUNCHEON, HIGH SCHOOL MATH TEACHERS, Staff Dining Rm	10:00 a.m.	DISASTER FOOD & SUPPLIES DEMONSTRATION, Math & Home Ec. Bldg. Rm 121	9:00 to 1:00	ARCHITECTURE DEPARTMENT BANQUET, Madonna Inn
1:00 p.m.	"FIREHOUSE FIVE PLUS TWO" WELCOME PARADE, Downtown San Luis Obispo		ADULT & YOUNG FARMERS LIVESTOCK JUDGING CONTEST, Track & Athletic Practice Field		CORONATION HALL Men's Gymnasium
1:30 p.m.	FOODS DEMONSTRATION, Math & Home Ec. Bldg. Rm 123		FOODS DEMONSTRATION, Math & Home Ec. Bldg. Rm 123		WESTERN DANCE, Crandall Gym
2:00 p.m.	INTERCOLLEGIATE RODEO, Collet Arena			10:30 p.m.	CORONATION CEREMONIES, Men's Gymnasium
	BEARD CONTEST JUDGING, Ag Engineering Shop			SUNDAY, APRIL 29	
				1:00 a.m.	OFFICIAL CLOSE OF 30TH ANNUAL POLY ROYAL



# 'Patterns of Progress' Theme of 30th Annual Poly Royal

## College Open House Weekend Will Provide Events to Host Visitors

By PAT RALL

"Patterns of Progress" is this year's self-explanatory theme as Cal Poly prepares for its 30th annual Poly Royal when the college embarks on its traditional two-day whirlwind of exhibits, displays, demonstrations and festivities.

Catering to expected thousands of guests and alumni will be campus clubs, organizations, and departments as they "show their wares" today and tomorrow. This year's total of visitors will push the 30-year cumulative total to over 150,000 persons.

At the first Poly Royal in 1932, a one-day affair, animal husbandry majors exhibited prize animals for the benefit of local towns people.

This year visitors to the campus from throughout the state will see the latest in electronics, printing and journalism projects, mathematical computers, life sciences, physical science, physical and chemistry labs, and modern farm operations as well as other developments and educational open house programs.

One of the many traditions of Poly Royal is to entertain a guest of honor. Selected by the Poly Royal board this year was Dr. Ferron C. Losee, athletic director at Los Angeles State College and chairman of the Mercy Bowl football game committee.

Dr. Losee was on campus last Feb. 3 when he presented a \$170,000 check representing the Mercy Bowl game receipts to Dr. Clyde Fisher, chairman of the Memorial Fund committee and dean of Applied Sciences at Cal Poly. The guest of honor will be feted for the two busy days.

Geared to interest students and visitors alike will be a wide variety of departmental exhibits, all representing a great deal of time and effort. These displays will serve many purposes, one of them being to show alumni how college departments have progressed.

### Ex-Queens Invited

Special invitations have been sent to past Poly Royal queens and general superintendents. Many alumni have made Poly Royal a yearly "must," thus keeping in touch with close friends and renewing old acquaintances.

Upper division students are burning the midnight oil in order to finish their senior projects by Poly Royal kickoff time, and others can be seen adding last minute touches to exhibits and displays.

A combination of wildlife, bacteriology, physiology, botany, marine biology, and entomology displays will be presented by the Biological Science department.

Birds and mammals, as well as living reptiles, can be seen in the department's museum.

The Kolla department will highlight conservation and classification displays, laboratory equipment demonstrations, and continuous sports, travelogue, and adventure movies in its own theater during both days of Poly Royal.

### New Creamery

Planning for the first time to make a general public showing of the new college creamery, the Dairy department will offer guided tours of the plant in the new Food Processing building both Friday and Saturday. It will also sponsor a fitting and showing contest at the dairy pavilion Saturday from 8-12 a.m.

Two airplanes, owned and exhibited by the Mustang Flying Association, will be on display at the Cal Poly airstrip. Members of the club will be on hand to explain to visitors the functions of the organization and how it uses the planes.

Contests for the competitive-minded will be sponsored by clubs and departments during the course of the two-day festival.

High school students who are adept with numbers will have an opportunity to participate in the Mathematics department's annual math contest Friday at 10:30 a.m. Mathematical "devices" made by high school students, and the electronic machines, will be on display in the math building both days.

One of the more interesting and traditional Poly Royal events is the beard growing contest, which officially starts

ted in the registration line when participants had to sign up clean-shaven. Prizes, probably razors, will be awarded to the winners.

Beginning at 10 a.m. Saturday will be the Cal Poly Young Farmer livestock judging contest. Trophies will be awarded to the high teams in the contest which will be held on the practice football field.

On Friday evening, Poly Royal can move to the patio behind the Men's Gym and join in the fun and frolic of the campus carnival. Each booth is sponsored by a club, department or organization. Everything from sponge throwing and penny pitching booths to hot dog stands and a cold, wet dunking booth will be in full swing.

During and after the carnival, students and guests will be able to sway and swing to the sounds of the "Firehouse Five Plus Two," famed

(Continued on page 11)

Dr. Ferron C. Losee

## Humanitarian, Educator, Is Poly Royal Honored Guest

Humanitarian, educator, athletic director and community leader are but highlights of the story that lies behind Dr. Ferron C. Losee, Los Angeles State athletic director, who has been selected honored guest for Cal Poly's 30th annual Poly Royal. Dr. Losee was chosen for the honor as a

tribute to his dynamic leadership in organizing and promoting the Mercy Bowl Football classic last Thanksgiving Day. The game, which raised more than \$170,000, was held for the benefit of the survivors of the tragic plane crash in Toledo, Ohio, October 28, 1960, which decimated Cal Poly's football team.

At the time of the fateful crash, the 50-year-old athletic director's

LA State Diablos were the team that Cal Poly's Mustangs were scheduled to play. He reasoned that neither Cal Poly nor the town of San Luis Obispo had the resources to accomplish the benefit task singlehandedly. Dr. Losee decided the problem rightfully belonged to the sports world—and to him personally — to raise sufficient funds to aid the survivors.

"The rest of the Mercy Bowl story is in the history books now," Emmitt W. Mundy, Poly Royal general superintendent, explains. "But the students at Cal Poly are determined that Dr. Losee will not be lost in history for his leadership. It is now our privilege to pay tribute to him as an individual who has devoted his life to athletics and youth."

The Poly Royal honored guest hailed originally from Provo, Utah, and Brigham Young University where he was a swimmer, track sprinter and end on the football team. He temporarily withdrew from sports at the age of 19 to spend two years as a Mormon missionary in Hawaii.

Upon his return, he began his years as an educator at Roosevelt, Utah, where he was a high school teacher and coach, and continued at Weber College in Ogden, Utah.

Following a four year stint in naval aviation in the Pacific during World War II, Dr. Losee took over as athletic director at Los Angeles State while studying at the University of Southern California for his master's and Doctorate of Education degrees.

Dr. Losee now heads one of Los Angeles State's eight major academic divisions. His staff of 60 professors conducts programs leading toward degrees in eight major areas, and provides many of the professionals in recreation and physical education for Southern California.

He is incoming president of the California Collegiate Athletic Association, of which Cal Poly is a member, and is considered by the National Collegiate Athletic Association as an authority on the development of intercollegiate athletics on the West Coast.

As a community leader, he received the "Golden Anniversary Year Certificate of Appreciation for Outstanding Public Service" 1956, a national award from the Boy's Clubs of America.

As Poly Royal honored guest Dr. Losee will be taking an active part in the many activities scheduled for today and tomorrow.



DR. FERRON C. LOSEE

### TCU Gains New Dimensions Resembles Space Modulator

Familiar contours of the Temporary College Union have been distorted to new dimensions resembling a space modulator for Poly Royal by student directors Rich Sullivan and Bob Sanders.

Theme for the design is "Flowers in Liberal Arts." Displaying photographs and posters of recent cultural activities on campus, the TCU is a series

of cubes and rectangles on various altitudes, all emphasizing the new area of cultural endeavor at Cal Poly. The exhibit taken on a modernistic approach to arouse the interest of campus guests.

Sponsored by the Fine Arts Committee of the College Union and the TCU boards, the exhibit will also include work by the campus writers' club and student art club.

## Horse Show Today In College Arena

Horse show enthusiasts will be keenly interested in the Poly Royal horse show which begins at 8 a.m. today and runs until noon in the college arena.

Sponsored by the campus Cutting and Reining Club, the show will include some of the top show horses in the state. Of particular interest will be the open jumping class, which is being offered for the first time this year.

Other classes include trail horses, cutting horses, western equitation, hackamores and snaffle-bit, English equitation, western pleasure, stock horses and a dollar bill bareback jackpot.

Chairman of the show is Joanne Nielsen, a sophomore Biological Science student from Sullins.

Judging the show will be Marvin Roberts Jr. of San Luis Obispo, a former Cal Poly student who held both the state and national championship in English and western equitation competition.

In addition, Roberts was a member of the college rodeo team and won the national intercollegiate championship in bull dogging and team roping. He is currently engaged in training western show horses, and is considered to be one of the top horsemen in California.

## El Mustang

California State Polytechnic College  
San Luis Obispo Campus

Bob Norton.....Editor-in-Chief  
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## Roaring Whine No Alarm; Aero's Jet Being Fired

By JOHN YOUNG

That roaring whine coming from Cal Poly's airport during Poly Royal is not cause for alarm! Rather, it's the F-86 jet fighter which is part of the Aeronautical Engineering department's display. Consisting of three separate areas, the department's exhibit includes missiles and aircraft on the "apron" in front of the hanger, student projects and a world record-holding jet inside the hanger, and a collection of aircraft engines ranging from the early piston-type to modern rockets inside the lab building.

### On The Airstrip

The F-86 fighter will be fired up several times each day during Poly Royal for the benefit of spectators.

A ground effect machine, designed as a senior project by Dennis Riddle, of San Mateo, will also be demonstrated. This two-man craft rides on a cushion of air eight inches off the ground and is capable of gliding with ease over land, water and rough terrain.

Several experimental aircraft are being displayed between the hanger and the ROTC rifle range. These planes are all home-built and carry one or two people. They are from the Central Coast area and were flown to Cal Poly especially for Poly Royal by their owners.

### Military Exhibits

Nearby are two surface-to-air missiles. One, a Bomarc, is part of an Air Force exhibit, while the other is the Navy's Terrier.

Two exhibits from Vandenberg Air Force Base are on the far side of the hanger. Donated by General Dynamics and Lockheed Aircraft, these exhibits deal with equipment

now being used in the "aero-space age."

**Senior Projects Inside Hanger**  
Included among the many interesting senior projects exhibited inside the hanger is "Project Vagabond." This glider was built by Aero majors working intermittently over the past four years.

Also on display inside the hanger is a Douglas Sky-Streak, which held the world's speed record in 1946. It is one of only three Sky-Streaks ever built. One crashed during flight tests and the third one is in the Smithsonian Institution in Washington, D. C.

Completing this portion of the display are airplane parts and equipment showing the complexities of modern aircraft.

### History of Engines Shown

Many interesting engines are on display in the Aero lab, forming a history of aircraft power plants. Poly Royal visitors will see the Hispano-Sulzer, a water-cooled inline engine built before the start of World War I.

The exhibit includes Liberty engines from World War I, a Kinner engine of the early 1930's, several Pratt and Whitney powerplants dating from the early 1940's to the present, and a V-12 Rolls-Royce from a World War II bomber.

## Chemistry, Physics Plan Theme on Electron of Atom

Subjects that never appeal to the layman because of the magnitude of their complexity, physical and chemistry, are always taken with shrugs and grins among uninterested students.

A sophomore used to remark: "they don't have the taste of a glass of milk, or a smell of bacon in the morning, that is why."

Interesting or not, physics and chemistry as required courses in engineering studies, are not designed to please one's taste or cultivate one's appetite. "They are for those who have the nerve and the mind to tackle the hidden mysteries of the atoms, electrons, and protons," according to Don Lockwood, a college senior and president of the Physical Science club.

Lockwood, a physics major, discussed a number of interesting topics in physics and chemistry which will be the main features of the display by the Physical Science department during Poly Royal.

### Electron Featured

"This year's exhibits," Lockwood emphasized, "will revolve around the theme of the electron."

"This major component of the atom is a major study in today's world of missiles and rockets," he stressed.

"One should note that within the next few years man will likely perfect the study of the electron. Along with the speedy development of nuclear physics, all engines that run on earth and fly in the air will be nuclear-powered. Rockets and missiles are going to be a common sight. All these are made possible because of physics and chemistry."

Asked how he could successfully depict his display theme on the electron, Lockwood said that a 1962 film, "Operation Greenhouse," borrowed from the Atomic Energy Commission in Washington, D. C., will be shown for purposes of demonstration. The film will show the tremendous power of the electron in connection with the development of a hydrogen bomb.

Three other films significant to the physical science department are "Physics of Light," "Nature of Color," and "Progress in Plastics."

### Exhibits Listed

List of exhibits, displays and other activities include: ultraviolet mineral light, mirror images, glassblowing demonstration, gyroscopes, hearing test, chemical demonstrations, high voltage and nuclear displays, and demonstration of senior project.

A demonstration on "Electrical



**RIDE 'EM COWBOY**—Two days of thrills and spills are in store for Poly Royal visitors attending the intercollegiate rodeo. Team competitors comprise men and women from eight colleges and universities in California, Nevada and Arizona.

## Thrills, Spills Highlight Rodeo Today, Tomorrow

Thrills and spills, plus plenty of spine jarring action, is in store for Poly Royal spectators at the two-day intercollegiate rodeo being held in the campus arena today and tomorrow, beginning at 1:30 p.m. both days. In the riding events, bareback broncs, saddle broncs and Brahma bulls will be trying hard to throw their collegiate riders before the eight-second whistle blows.

Added excitement will come in the calf roping, ribbon roping, steer wrestling and dally-team roping events as the contestants race against the clock to "conquer" the wily animals.

In addition to these men's events, collegiate cowgirls will be competing for points and awards in barrel racing and girls' calf tying.

Teams entered in the contest include University of Arizona at Tempe, Arizona State from Flagstaff, Pierce Junior College near Canoga Park; Cal Poly at Pomona.

Discharge Through Gases," "Static Displays," "Magnetics," and "Kinetic Theory of Gases" also will be given.

University of California at Davis, University of Nevada from Reno, Fresno State College and Cal Poly at San Luis Obispo.

Adding a touch of beauty to the show will be Carolyn M. Heiser, a freshman Animal Husbandry major at Cal Poly who hails from Reno, who has been named the 1962 Rodeo Sweetheart.

Cal Poly's San Luis Obispo campus team is currently leading the West Coast region in point standings and is well on its way to winning a third consecutive regional championship. The local riders have won all four of their contests this year, and hope to represent the region in the national finals to be held in Denver this summer.

### Selected for Ability

Cal Poly team members are selected for their ability in their chosen events and must maintain scholastic standings as well. A balance between the number of riders and ropers is also maintained.

Cal Poly coeds have also proven that they can handle the animals in their rodeo contests. Team veterans are Nancy Whitman, who is leading the region in barrel racing, Jeannie Foote and Linda Hancock.



**PRETTY AM A ROSE**—The Poly Royal flower show sponsored by the Ornamental Horticulture department brings out the best in blooms and arrangements. Here, Poly Royal Princess Joan Kates tries her hand at creating a flower arrangement for the show.

## College Playwrights Vie for Cash Award

Samuel French Publications are sponsoring the 10th annual National Collegiate Playwriting contest now underway.

Purpose of the contest is to

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promote the study and practice of playwriting in American colleges.

Awards will be given to the winners of two different divisions and include: \$200 and publication for first prize in the short play division, \$100 and possible publication for second place, and \$50 and possible publication for third place.

In the long play division, prizes include \$350 and possible publication for first place and \$100 and possible publication for second place.

Any student registered in a college or university for the school year of 1961-62 is eligible to enter the contest. Further information may be acquired from J. Murray Smith, English and Speech department, at Eng. 200E.

Judges will include New York producers Norris Houghton and Arthur Cantor; H. Clay Harshberger, chairman of Dramatic Arts Department of the State University of Iowa; and Professor Warren B. Smith, Pennsylvania State University.

## Renew Childhood Favorites; Visit Library's Book Display

How well do you remember your favorite childhood stories such as "The Little White Teddy Bear Who Didn't Want to Go to Bed," or the Famous Dr. Seuss stories? Poly Royal visitors will have an opportunity to renew childhood storybook memories by browsing through the collection of children's books that have been assembled especially for Poly Royal in the college library.

Beginning at the kindergarten level and ranging through the ninth grade, the books cover every conceivable area of interest to children and adults. In fact, more than 750 books are included in the exhibit for those wish tired feet who want to relax with a good book.

Only samples of the selections to be found need be previewed to recall childhood favorites. Starting with the pictorial magic of the "Picture and Easy" books, there are also "Here and Now" stories, others of family and community life and of "Other People and Other Lands." There are mysteries to tingle the spines of children as well as "grown up" stories.

On the imaginative side, there are tales of fantasy, poetry, folk and fairy tales. There are books about science; informative books about living things and living people.

Space age tales, experiments, careers and guidance, arts and activities, tales of America today and yesterday, stories of the world and its people and even books on mathematics for youngsters are included.

Eighty subject classifications and sub-classifications have been made to make the exhibit easier to cover. The display represents an output of great variety and appeal—the significant production of our most creative tales in both writing and pictorial art.

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## Answers Await Curious; Bio. Sciences Explained

A multitude of answers awaits the curious on such subjects as germicides versus bacteria, muscle formation of man, marine biology and wildlife at the Biological Sciences Poly Royal display.

Tonia Thompson, student chairman of the department's exhibit, indicates that the display is composed of seven different areas covering everything from bacteriology to taxidermy. "The 180 students in the department have put in many hours to provide interesting and educational exhibits for Poly Royal visitors," Miss Thompson says.

Spectators will have an opportunity to view bacteria slides with the aid of powerful microscopes. Of particular interest will be various bacteria found in the human throat and others that present health problems.

For those interested in entomology, an extensive display of local insects will be open to examination. Included in the exhibit will be several live specimens of rare and common insects as well as demonstrations of various devices for controlling insects.

Physiology will be covered by showing visitors various plant and blood cells, while embryology dem-

onstrations on the dissection of frogs and lower forms of animal life will be given.

Always an interesting display are the human skeletons and models of humans showing muscle formation.

The live food chain will prove educational to young and old alike who are curious about marine biology. In separate tanks are the progressively larger animals, which, in their natural habitat, depend on one another for their food.

Live animals can be seen in the wildlife zoo, which includes living reptiles and predatory animals. Also displayed are fossils, taxidermy exhibits and a sea otter pelt valued at \$5,000.

Biological Sciences students will be on hand to explain the various exhibits to Poly Royal visitors to make their tour more educational and interesting.



**ISN'T HE CUTE**—So says Poly Royal Princess Linda Shickley of this rabbit that will be part of the Biological Sciences Poly Royal display. The department's exhibit will answer many biological questions for Poly Royal visitors, including facts on a live food chain, the muscle formation of man and wildlife control.

## Elementary Ed. Displays To Feature Five Themes

Visitors to the Elementary Education department's displays in the Agricultural Education building will see five different areas each

with its own educational topic centered around the department's theme of "Foundation for Living."

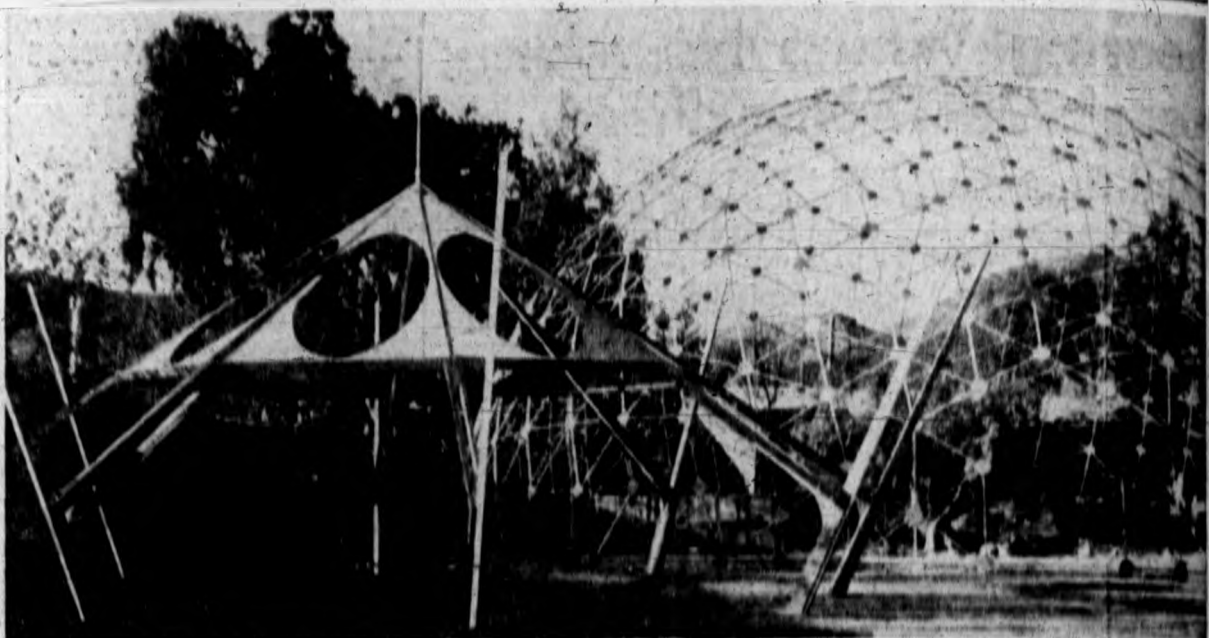
First area to be visited in the orientation room. Following the theme of "Foundation for Teaching," this room will give an overall view of the entire department. Mounts will be on hand to show visitors and prospective students the curriculum and requirements for graduation.

The combined science and arithmetic division will be divided into three categories: primary—covering kindergarten to third grade; intermediate—fourth to sixth grades; and upper—covering seventh and eighth grades. Many displays will show projects made by students while others will show what the teacher can make for use in the classroom.

The theme "Foundation for Progress" will show that while the world is advancing by leaps and bounds in technology, the teacher must learn faster and know more about varied topics to keep up with her students.

Rounding a corner in the building, the visitor will find bulletin boards, charts, maps and projects displayed in the social studies room depicting past and current efforts to establish a "foundation for peace."

Next comes "Foundation for Learning" in the language arts room with a display subtitled "Gateways to the Mind." Illustrating this is a large model of a brain hung in the middle of the room with streamers leading to a



**ARCHITECTURE FEATURES OLD AND NEW**—In the foreground is the student designed and constructed model of the dome of the Hotel del Coronado in San Diego, which will be highlighted in the Architectural Engineering exhibit. In the background is another student project, a geodesic dome constructed for hygiene Poly Royals.

## Architects To Feature Model Dome, Outstanding Projects

A unique model of the dome on San Diego's Hotel del Coronado, a tour through four years of Cal Poly's Architectural Engineering curriculum, a proposed development plan for 72 miles of California coastline and plans for a "one-house city" highlight the Architectural Engineering department's Poly Royal display.

The department's exhibit, which is among the most outstanding each year, is located in the Architecture labs across from the mountain dorms.

### State-wide Recognition

The model of the Hotel del Coronado dome was built earlier this year for the California Council of American Institute of Architects convention, and has already received state-wide publicity.

Designed by three Architectural Engineering students, Leo Borna, John Morley and Bill Podesta, the design follows a contemporary space definition in the same theme and form motif of the original eight-sided main tower of the hotel. The structure was built of prefabricated parts made in Cal Poly's wood shops and assembled in one hour.

### \$1,000 Refused

More than \$1,000 was offered the students for the project at the San Diego convention, but they decided to recreate their "gizmo" and bring it back to the campus.

The four-year "tour" through the Architectural Engineering curriculum will "give visitors a real and visual idea of what students do and learn," George Hasselstein, Architectural Engineering department head, says.

Highlighting the "tour" will be the senior project room, which will feature a Big Sur development project, an Avila Beach planning project, structural adhesive, a square dome and a vertical city.

### Coastline Development

The Big Sur project consists of planning the development of 70 miles of coastline just north of San Simeon to preserve the natural beauty of the area. Part of the plan includes the construction of a highway through King City that will by-pass the Big Sur wilderness area.

### Resort Created

Plans for the complete redevelopment of Avila Beach into a thriving resort community will also be on exhibit. "The master plan will give the city something to grow into, a plan to set their sights on," Hasselstein explains.

The construction of an entire "city" within a single building will be shown in graphic detail in a project done by Ron Self. The futuristic exhibit will show how an expanding population can be housed on a minimum of land. The "one-house cities" of the future would be connected by elevated freeways, with parks and recreational areas

hand, an ear, an eye and a mouth. Secondary education, though covering a large field will be condensed on a bulletin board located on the stair landing.

To wind up their Poly Royal activities for 1962, the department and the Student California Teachers Association club are planning a coffee hour in the first floor Saturday afternoon from 2 to 4 p.m. Parents, students and visitors will have an opportunity to meet with the faculty.

## See Irrigation Model; Ladies Driving Nails

A student-assembled model of an automatic irrigation system will highlight the display in the Agricultural Engineering department.

The department's entire display has been designed and constructed by the students to show the many phases of instruction they receive during their college training.

In addition to an array of senior projects, a two-way citizen's band radio will be exhibited. A demonstration of engineer horsepower will be conducted throughout the weekend with the aid of a typical farm engine mounted on a dynamometer test stand.

As a skilfully attraction, the departmental club is sponsoring the ladies nail driving contest, behind the Farm Shops. Ladies who demonstrate their ability with a hammer by hending the least nails, both metallic and "human," will be awarded prizes.

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—Time Magazine

**Young Man**

... meet



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Tailored by H.I.S., these extra tapered, extra low rise slacks are required wearing with the "slimmer than slim" set. Narrow tabbed waistband with inside elastic adjustment for extra snug fit. Pre-finished 14" plain bottoms—ready to wear. Washable. Black, olive, medium grey.

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## Tomorrow Is Day Parading Showmen Exhibit Animals

With fingers crossed, approximately 100 student showmen will lead their animals into the ring tomorrow morning for the start of the 1962 Poly Royal livestock showmanship contests.

Representing many hours of grooming and fitting, these animals are the finest examples of Cal Poly's beef, sheep, swine and horses.

According to Chris Dermody, livestock showmanship chairman, the sheep, horses and cattle will be shown on the track field while the hog contest will be held at the swine unit.

**What's a Good Showman?**  
Spectators often wonder what qualities the judge sees in a good showman. First and foremost, the showman is at all times trying to show off his animal to the best of his ability.

Before going into the ring, the student makes sure that both he and his animal are clean and well groomed. For the animal, this means at least one complete bath from head to toe, and includes many hours of combing the hair, trimming the wool, polishing horns and hooves and even cleaning inside and behind the ears.

**In the Showing**  
In the showing the showman is always alert to follow explicitly any instructions from the judge.

At all times, he is courteous to competing showmen as well as the ringmaster and the ring clerk.

He is ready for any question pertaining to his animal or himself, and gives the animal his undivided attention while in the ring.

His eye is also on the judge or judges at all times, so that he never permits his body to obstruct the judge's view of his animal.

And last but not least, the true showman is a modest winner or a gracious loser, whatever the case may be.

## Printers Display New Home; Senator Is Banquet Speaker

Open house in the Graphic Arts building will be the hub of events surrounding the Poly activities of Cal Poly's Printing department. Printing management majors will display their new home to industrial representatives, returning alumni and interested guests. All machinery will be in

operation for visitors to observe, and demonstrations will be given on every phase of printing from hand and machine composition to color process printing and bindery operations.

The demonstrations will include four color process jobs to be run by both offset and letterpress methods. The school's new Goss roll-fed press will also be in operation.

### Senator Speaks

Climaxing the department's activities will be the 18th annual Poly Royal Printer's banquet held tomorrow at the Breakers Restaurant in Morro Bay. State Senator Vernon L. Sturgeon will be the

## Machine Tools Valuable Engineering Courses

Instruction on how to work with basic machine tools is the contribution that Cal Poly's Machine Shop department makes to students' educational program.

During Poly Royal, the department's doors will be open to visitors to view the various machines which students learn to operate including engine lathes, drill presses, milling machines, shapers, grinders and a wide assortment of hand tools.

Engineering students at the college are required to take at least one quarter of machine shop instruction, with more being required depending upon the individual's departmental curriculum.

Visitors unfamiliar with the campus location of the department will find the Machine Shop behind the Agricultural Engineering shops and classroom building.

featured speaker. Students, alumni and special guests will gather for the barbecue style dinner, sponsored by Mat Pica Pl, Society of Printing Engineers.

Helping to promote and publicize Poly Royal for the entire college as well as for itself, the department has printed 20,000 brochures for the school and several thousand fans to be given to visitors who tour the department. The fans are in four colors and will show pictures of the Graphic Arts building.

### Old Press Restored

Mat Pica Pl has currently restored an old Washington hand press which can be seen on the ground floor lobby of the Graphic Arts building. After Poly Royal it will become a permanent fixture for all visitors to see.

During the two-day open house, soft music will be played over the speaker system throughout the department.



**HOT OFF THE PRESS**—Poly Royal Princess Judy Church learns about the printing of this special Poly Royal edition of El Mustang from C. H. Gregory, Printing department instructor. This is the first edition published for general circulation to be run on the Printing department's new roll-fed web-type printing press.

## Stage Activities Highlight Little Theater Tours

Stage activities will delight and excite many Poly Royal visitors as the College Union Drama Committee conducts tours through the newly completed Little Theater and Music building tomorrow. According to Keith Nielsen, English and Speech department instructor, "The purpose of the tour is to show off the new modern facilities made available to us in the Little Theater, and to give the public an idea of what goes on backstage while a play is in progress."

Tours will be conducted every two hours starting at 10 a. m. Guides, furnished by the Drama Committee and by Alpha Psi Omega, the national drama fraternity on campus,

presentation at the beginning of the tour, during which time various lighting techniques will be demonstrated.

Between the tours, travel movies will be shown in the Little Theater by the Drama Committee. These films include "Arts and Crafts of the Southwest Indians," "Indian Ceremonials," "San Francisco" and "Wheels A'Rolling."

Throughout the day coffee will be served in the foyer of the Little Theater, compliments of the College Union Drama Committee and the English department.

You are invited to visit the new Printing Engineering and Management Department in the Graphic Arts building. See the press that this special edition was published.



**SHOWMEN COMPETE TOMORROW**—Student showmen will enter the showing tomorrow morning bright and early to compete for prizes in the annual livestock showmanship contest. Many hours of labor have gone into preparing these animals for the Poly Royal event.

## Sheep Dogs Show Working Abilities

An added attraction to this year's Poly Royal will be an exhibition of working sheep dogs, featuring Joe Simpson and his dogs Kit and Terry, California and Far Western champions of 1961.

Sponsored by the Cal Poly Wool Growers association, the exhibition will be held only today, beginning at 11 a.m. in the college football stadium. This exhibition will illustrate the knowledge and ability of working Border Collies as they skillfully maneuver sheep through a gathering, driving and penning demonstration.

The dogs are purebred, registered Border Collies and have pedigrees that can be traced through imported dogs to the champions of England, Scotland and Wales. An interesting fact is that most of the winning Border Collies can be traced back to a famous dog known as "Old Hemp."

Hemp was born in the sheep country on the border between England and Scotland in the year 1893. He became famous for his skill at his work and was soon in great demand as a sire. He sired more than 200 puppies per year

for a period of seven years, and, as a result, most of today's prize winners are descendants of Old Hemp.

A sheep dog will work and control the sheep, not by running and barking, but by gaining the attention of the sheep and holding them with his "eye" while making them move by the direction in which he moves his body. The main characteristic of Old Hemp's descendants is their enormous power of concentration.

Most dogs begin their serious training at about one year of age. The dog is taught to use his natural ability of maneuvering sheep for his master and when proficient in his work, becomes invaluable to the rancher by doing the work of several men.

The I-16 jet engine, one of the first built in this country, will be shown in the Aeronautical Engineering exhibit in the departmental hanger. It was originally a \$125,000 piece of hardware.

# DRAG RACES

Pride of the Pacific Drag Strip

San Luis Obispo County Airport

**Sunday, April 29**

Time Trials start at 10 a.m. - Eliminations at 1 p.m.

Trophies in all classes

Operated by

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## Mustang Sports

### Finishing Second In CCAA; Pigskinners Fooled Experts

Picked for last place in the CCAA competition, the Mustangs surprised everyone by finishing in second place. The Poly eleven ended the season with a 4-4 win-loss record under the guidance of coach Leroy Hughes. Next year the Poly eleven will be under the orders of coach Sheldon Harden.

It was predicted by everyone that the Mustangs could not build up a team in such a short time following the Toledo crash. But two reasons made the team rebuild into a fighting machine. First, they wanted to win for their teammates who perished in the tragedy. And secondly, they wanted to win because it was coach Hughes last year.

Two of the Mustang eleven were selected to the All-Conference team. Chosen as All-Conference quarterback was Ted Tollner, and Fred Brown was selected as end on the squad.

In play during the season two Mustangs led the league in ground gaining and punting. Paul Lewis

was ground-gainer with a 6.6 yard average, and Skip Stratton led the league in punting.

In winning four games this year the Mustangs beat San Fernando State, Long Beach State, L.A. State and the University of California at Santa Barbara. They were defeated by San Diego State, Fresno State, San Diego Marines and Adams State.

#### Tennis Squad Win One

The Mustang netmen have had a barren season in the win department. Coach Ed Jorgensen's men have won once and been defeated five times in CCAA competition.

Members of the 1962 squad are: Ron Batchelder, Pete Edwards, Roland Jacobson, Joe Chau, Tim Healey, Bryan Ogden and George Coughlin. The Mustangs only win came when they defeated Fresno State.

#### Trackmen Have Talent

This year the Poly track team, under the coaching of Walt Williamson, possesses some of the finest talent in the nation. Top men on the squad are high jumper Dennis Jones, discus man Lloyd Petrelje, sprinter Pierpont Laidley and javelin thrower, Ingvar Hallsteinsson.

Petrelje is rated number one in the CCAA with a throw of 151-1 ft. Jones in the high jump is rated two, with his best jump to date being 6-6 ft.

Laidley's best recorded time this year in the 100-yard is 9.9. While Hallsteinsson is rated number three man in the javelin with a throw of 202 ft.

#### MISSING ANYTHING?

Lost and Found office urges students and staff to check for possessions lost during the past year. Located in the Maintenance building, between the fire station and auto shop, the lost and found service is available daily 11-12 a.m. and 3-5 p.m.



Coach Sheldon Harden

### 'Silver Fox' Ends Career As Mustang Head Mentor

When football season rolls around next September, a familiar figure to Cal Poly fans will be missing. No more will the man named the "Silver Fox" be seen pacing the touchline, or barking orders to his players, because the "Silver Fox" has retired from the game.

On November 17, 1961, LeRoy Hughes retired as head football coach of Cal Poly. He had been coaching for 29 years, 12 as head mentor of the Mustangs.

In 1948 he arrived as head coach at Poly and guided his teams to



Coach LeRoy Hughes

69 wins while suffering 37 defeats. In his first year here, Hughes' squad ended the season with a 3-7 win-loss record. The following year the Mustangs finished 5-4 and things improved for Hughes. In

1952 the team ended the season 7-3. But 1953 was the year for the Hughesmen to shine. The Poly squad went undefeated in nine games and were top scoring team in the nation. Two more CCAA championships were brought home in '57 and '58.

Another big point in the Hughes career came in January of 1959, when he was one of two small-college coaches invited to speak at the 36th Annual American Football Coaches Association Convention in Cincinnati, Ohio. This was the first time in which small-college coaches were added to the agenda of the meeting as speakers. Hughes' speech at the convention was titled, California State Polytechnic College Offense.

"My greatest thrill," coach Hughes said, "came when the Mustangs won the CCAA championship for the first time in history. In that season we lost the first three contests and bounced back to win the remaining seven games."

At present, coach Hughes is instructing in the physical education department. He is also president of the CCAA, NCAA representative for Cal Poly, and a member of the NCAA Television Committee.

#### Golfers Prepare for CCAA

The Poly swingers under the coaching eye of Chuck Hanks have a 3-4-1 win-loss record. They are presently preparing for the CCAA Championships to be played at Hesperia next week.

Making up the golf team are John Callin, Buddy Joe Petty, Steve Wilburton and Chuck Bell.

## Mustangs Ready For San Jose Spartans



SEE ACTION TODAY—Expected to help the Mustangs in their attempt to defeat the San Jose Spartans will be 3rd baseman Ted Shugar left, and pitcher Dick Guerra. Shugar is among the leading Mustang hitters with a .240 average. Guerra will pitch in the second game of the double-header. The first game is scheduled to start at 12:30 p.m. tomorrow.



#### Rounsaville, Horwath All Conference

### Basketball Squad Looked Good With Season Record of 15-8

The Mustang basketball squad finished the season with a respectable record of 15 wins against 8 losses, and a 6-6 win-loss mark in CCAA competition. They also placed two players on the All-CCAA squad. Making the CCAA five were guards Rally Rounsaville, senior physical education

major, and Bob Horwath, sophomore social science major. Rounsaville also was top scorer in the league with 263 points in 12 games, which gave him a 21.9 average.

The Mustangs also pulled one

tangs this season were center Bob Wilmont, and forwards Ken Anderson and Bill Warmerdam.

The Poly frosh had a record of 12 wins against 6 defeats, and showed great potential. Some of that potential will be used as a nucleus for next year's varsity, disclosed coach Jorgensen.



Coach Ed Jorgensen

of the biggest upsets in the basketball world when they dumped the highly touted St. Mary's Gaels 71-68. At the beginning of the season the Poly squad won the Chico State Invitational, which they will defend next year.

Other standouts for the Mus-

### Mermen Place In CCAA Contest

Poly mermen boast a record of 5 wins against 1 loss this season. Coach Dick Anderson's men placed second in the CCAA Finals hosted by L.A. State, April 12-14. The championship was won by Long Beach State.

Top man on the team is Jack Adam, who placed seventh in the 1500-meter free style at the NCAA Finals in Ohio. He also broke the 1500-meter free style record in the CCAA finals, swimming it in 18:19.6 to better his previous mark of 18:22. He also won the 440 yard free style in the winning time of 4:32.8.

Other top performers are Frank Brooks in the 200-yard butterfly, who also set a new record in this event in the CCAA. Brooks swam the distance in 2:06.6. Jack Furlong won the 100-yard backstroke in 1:01.7 at CCAA. Top competitor in diving is Jack Latham.

### Poly Boxers Win League; Six Make All-American

Mustang boxers finished the season by winning the California Collegiate Boxing Conference crown with a record of eight wins and no defeats. The matmen, under the coaching of Tom Lee, also won five of eight titles up for stake in the Pacific Boxing tourney, held at Cal Poly April 6-7.

Six Poly boxers also made the All-American squad for 1962. Making the first team were "Cowboy" Clayton Ollar, 147 lb.; Frank Godinez, 139 lb.; and Hilmer Weyler, 178 lb. Selected to the second team were heavyweight Gary Chilcott, Ed Scott, 156 lb.; Roy Scialabba 165 lb.

Scialabba was also selected as outstanding fighter in the Pacific Tourney, mainly on his win over undefeated Lonnie Tolano of University of Nevada. Tolano prior to there meeting was undefeated for two years.

Other members of the squad in this year's team were: Bob Torres, 125 lb.; Frank Garcia, 132 lb.; Fred Minas, 139 lb.; Najib Hamdan, 156 lb.; Dick Greene, heavyweight.

Cal Poly along with the Uni-

versity of California at Berkeley, Chico State, University of Nevada, Santa Clara, and Stanford are the only remaining colleges participating in boxing in the U.S.

### Ag. Business Majors Hear Job Opportunities in Banking

Students of Agriculture Business Management classes heard speeches by two staff members of the Los Angeles training department of the United California Bank last week.

Leroy P. McCann and Robert Houghton emphasized the opportunities available to students with agricultural and business backgrounds.

### Double-Header Set For 12:30 Start

Tomorrow afternoon coach Bill Hicks' baseball squad will host the San Jose State Spartans in a non-conference double-header. The teams are meeting for the first time this year, and the opening game will get underway at 12:30 p.m. Pitching on the mound for the Mustangs will be right-hander Ted Tollner.

So far this season, the Mustangs have an unimpressive record of two wins against ten defeats in conference play.

The main trouble with the Mustangs is the lack of hitting at the plate. The leading batter is Bill Locatelli, 1b, .244; followed by Ted Shugar 3b, .240; Nick Montero cf, .214; Walt Weimer, .192; Lyman Ashley c, .184; Ken Anderson rf, .174; Rally Rounsaville ss, .158.

Scheduled to pitch in the second game is Dick Guerra.

Probable Starting Lineup:

Locatelli, 1b  
Shugar, 3b  
Rounsaville, ss  
K. Anderson, rf  
Hopkins, 1f  
Montero, cf  
Harper, 2b  
Ashley, c  
Tollner, p



Frank Godinez



Roy Scialabba



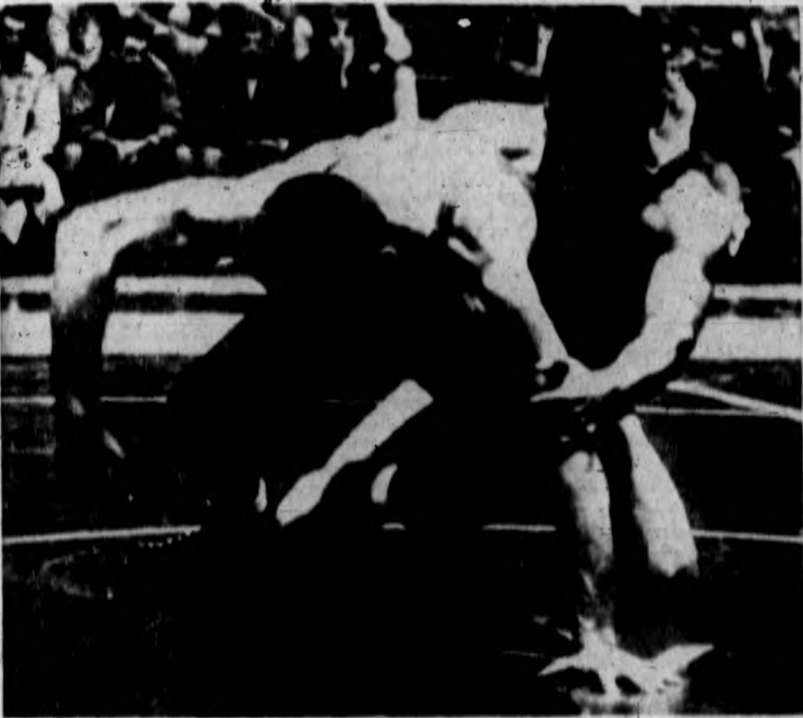
Hilmer Weyler



# Outstanding Mustang Athletes In The 1961-62 World Of Sports



**THE LAST TOGETHER . . .** Pictured with retiring coach Leroy Hughes are the four graduating seniors on the squad. Left to right are: Bob Johnson, coach Hughes, Rodger Kelley, Ted Tollner and Fred Brown. Hughes was retiring after 12 years at the Mustang helm. Tollner was selected All-Conference quarterback, while Brown was choice at end.



**OUTSTANDING WRESTLER**—Spence Tamoto is pictured about to pin another victim on his road to copping the CCAA 147-lb. crown. Tamoto was also selected as Cal Poly's top wrestler. He finished the year with a 9-3 win-loss record.



**NUMBER ONE**—That's the distinction Tom Pagan holds in the hammer throw for collegians. Tom broke a 21 year old NCAA mark when representing the Mustangs in an NCAA meet with a throw of 193 feet 11 inches.



**SIGN**—Carl Bowser, former Mustang fullback, and survivor of the Toledo crash recently signed a contract with the Oakland Raiders. The Raiders are members of the American Football League.

## Future Vo-Ag Teachers Visit Four San Joaquin High Schools

Twenty-six Poly students preparing for vocational agriculture instruction careers recently visited four San Joaquin Valley rural high schools.

Leo Mankoff and Frank Fox, members of the college's instructional staff, accompanied the students to Tulare high school on the one-day trip.

Purpose of the trip, according to Mankoff, is to acquaint the future vocational agriculture teachers with the problems, operations and techniques of the high school programs. Included on the itinerary were visits to classes, shops, school farms, student projects, and interviews with high school coaches of student judging teams.



**BIG TIME**—Star guard Rally Rounsaville has been offered a professional contract by the Los Angeles entry in the American Basketball League. Rounsaville has stated that he will accept their offer.



**WORDS OF ADVICE**—Cal Poly coach Tom Lee gives words of wisdom to All-American "Cowboy" Clayton Ollar between rounds. Lee coached the Mustangs to a winning season of eight victories against no defeats. Ollar finished the year winning nine bouts out of ten.

*Nina*  
has  
the  
Young  
look



*Shany*

Be in fashion time  
Pick a flatty for every hour and all occasions  
from the extensive collection of Nina's  
"ROUND THE CLOCK WARDROBE" of flats.

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**SMART SHOES**

## Food Processing Fully Automated

Featuring almost full automation, Cal Poly's new Food Processing plant will be open to public inspection during Poly Royal. The plant, which opened earlier this year, contains the latest in food processing equipment.

Equipment on display ranges from giant pressure cookers to a sealing machine capable of sealing a can every second. The machinery in the main pilot room will be moved off for safety purposes, but this will not hamper viewing the operations.





**SWING AND SWAY**—Carnival goers will have an opportunity to move inside the Men's Gymnasium to dance to the music of the "Firehouse Five Plus Two" in between sessions of trying their luck at numerous carnival booths.

## Tonight Is Fun Night At Poly Royal Carnival

Tonight is Poly Royal's big fun night, when the traditional carnival gets underway behind the Men's Gymnasium, beginning at 6 p. m.

As authentic as the old time carnivals with the various games of "skill," the Poly Royal carnival offers fun and prizes galore for everyone, all to the "tune" of the ballyhoo of student barkers.

### Honest Games

Carnival co-chairmen Bob Chapman and Ray Elmonds report that 22 booths will be in operation, all offering "honest games and valuable prizes," and sponsored by various clubs on campus.

Included among the booths are wheels of fortune, dime throwing, ribbon cutting, turtle racing and baseball throwing. For those who fancy themselves experts in the art of shaving, a "barber shop" will give them an opportunity to shave the foam off a full balloon.

Wrapped in "secrecy" is the "fly-the-airplane" booth being sponsored by the student architects club. For those who feel destructive, there will be a "car smash." A bingo game will be part of the

carnival, but it will be played in the Snack Bar across from the gym.

### Popular Favorite

Always a popular favorite with the carnival goers is the Farm Management club's dunking "party." Student leaders on campus take their turn sitting over a tub of water. All it takes to give them a bath is a well-placed baseball thrown at the bull's eye.

In the food line, there will be many old-time carnival favorites including "pronto pups," cotton candy, popcorn and candied apples.

Coupled with the carnival is the annual carnival dance. Beginning at 8 p. m. inside the gym, the dance features the music of the popular "Firehouse Five Plus Two."

## Rocket Designed By Seniors Flies And Lands Undamaged

BY JIM HALSTED

When a successful liquid-fueled rocket is built by college students for less than \$500, it's big news! Four Cal Poly mechanical engineering seniors have done just that, and it's not a one shot affair, either. This one is designed to fly and land undamaged, and can be seen at the Poly Royal display in Mechanical Engineering laboratory.

The students, Gary C. Clabby, 24, Modesto; Donald J. Waters, 26, Canoga Park; Richard A. Cox, 26, Albany; and Ronald A. Carlson, 22, Alhambra, built the rocket as a joint senior project to test a soft-landing technique they devised.

Clabby designed the flight control and descent system; Waters, the injector, combustion chamber, and nozzle; Cox, the airframe and propellant fuel system, and Carlson, the variable flow propellant valve.

The rocket was financed by the students at a cost of \$120 apiece,

for a total of \$480 for the project.

They hope to regain some of their funds by entering the rocket in the American Rocket Society competition, with an eye on the \$1,000 Chrysler Corporation prize.

In addition to the money invested in the project, they have also spent 800 man hours in its construction. Part of the time was spent scrounging through war surplus scrap piles for parts.

Fuel for the rocket is a solution of liquid ammonia and sodium. Red-

fuming nitric acid is the oxidizer. While the sodium acts as a catalyst to promote combustion.

The chemicals are stored in separate containers within the rocket, and controlled by means of the variable flow propellant valve. When they come in contact in the combustion chamber, they ignite spontaneously. The fact that the fuel and oxidizer ignite spontaneously eliminates a complicated ignition system and makes restarting the engine feasible for the precisely controlled braking system.

The 150-pound rocket is designed to develop a thrust of 650 pounds, which will enable it to attain a speed of 800 miles per hour in four seconds. At this time the engine will be shut off by radio control. This short burst of power

is sufficient to attain a height of one mile.

At this time, the nose cone will be jettisoned, releasing a 20-inch parachute. The purpose of the parachute is to serve as a velocity sensing device to hold the rocket in a vertical position during descent.

When the rocket reaches a predetermined altitude during its descent, the rocket engine will be restarted at a partial thrust. The amount of thrust is preset to give a rate of descent of 48 feet-per-second.

The third stage of the descent will be controlled by drop cords cut to lengths calculated to brake the rocket to acceptable landing speed limits. The first cord to touch will turn the engine to full thrust, and the second will shut the engine off

and allow the vehicle to settle to the ground.

A test firing on March 20 lasted 2.8 seconds and proved that the rocket engine would function as planned. The test was cut short, however, by a clogged injector caused by too much sodium in the fuel mixture.

The second firing on April 7 with less sodium in the fuel resulted in a run that lasted 5.2 seconds. The engine developed 500 pounds of thrust.

Both tests are considered successful, and further static tests are planned before an operational test is run sometime in the near future. This flight will probably be conducted at the Navy facilities at China Lake, and will be tracked visually using a tracking transit.

Cal Poly has a diversified student population with a foreign student group representing about 50 nations of the world, and many states of the world.

## Poly Royal Headquarters

Delightful Food and Lodging

Coffee Shop . Dining Room . Wine Cellar

### Poly Royal Visitors Menu

Barbecued Steaks  
Abalone and Seafoods  
Fried and Barbecued  
Chicken

Breakfast and Lunch  
7 a.m. to 5 p.m.  
Dining Room Open  
5 p.m. to Midnite

Fancy Pastries - Danish & French  
made daily in our own Bakery

*Madonna Inn*

Li 3-3000



# Foreign Born Teachers Color Engineering Staff

**BY CHUCK DRUMMOND**

Students who believe that professors live adventureless lives will think again when they read about some of the Cal Poly Engineering instructors. One helped engineer a Russian power plant built in a war-torn area, one was sold for 40,000 German marks by his Soviet captors and another was born in East Berlin where things aren't exactly quiet.

The instructors in Engineering who are foreign born number eight. Their backgrounds are varied and almost storybook at times.

Sven Poulsen, who calls himself a do-it-yourself addict, was born in the Dutch West Indies and raised and educated in Denmark. His spare time from work was spent in the dark—in a photo darkroom. He developed and processed his own film, some in color.

Now he has shifted to furniture woodworking, having built a self-designed hi fi set and the cabinets, the latter from teak wood and designed in "Danish Modern."

If Electrical Engineering is new to his ears during daytime at Cal Poly, his home time is monopolized by classical music from his recordings.

One From Formosa

Teh Loh Chou hopes that his EE students are learning as much as he is. Born in Formosa and schooled in China, he feels that teaching at Cal Poly offers him a learning experience.

He has a master's degree from the University of Washington and teaching experience at Chiao Tung University, Taiwan, but the Cal Poly programs appeal to him.

"Although the Chinese universities are in session six days a week, they fall short of the amount of work achieved by the American five-day week," he believes.

Gerhard Helne, Industrial Engineering department instructor, was raised and educated in the eastern part of Berlin. He left in 1947 and came to the U. S. where he worked in the machine design field until he became a citizen.

Once he returned to Berlin as a tourist and now echoes the impressions of others who see West Berlin as a thriving industrial area and East Berlin as a drab grey place hardly worth a comparison.

Helne is glad to be away from it and likes his first teaching job at Cal Poly.

**Sold for 40,000 Marks**

Alexander Landyshev, instructor in Electrical Engineering, a native of Russia, was sold for 40,000 marks by the conquering Nazis in 1942 to a German industrial firm because of his value as an educated industrialist. He was rescued by the U. S. Corps of Engineers and thus came to America.

Involved in counter-intelligence work in World War II, Clifford J. Price, Aeronautical Engineering instructor, has been at Cal Poly since 1958.

He is a native of South Africa, lectured at college in England and taught at the South African air force school of technical training and at Pretoria Technical college. He has had a career in aviation in both government and private industry, and is now more interested in teaching young men the whys and hows of aeronautics in Cal Poly's engineering division.

**Teacher of Russian**

Anatol Helman, a graduate of Warsaw Polytechnic in Poland, teaches the Russian language in the local adult education school when he isn't teaching architecture at Cal Poly, which he has been doing since 1957.

His closest confidantes on campus say he's a linguist and those not so close point out his beret and jaunty sports car.

He has a background in designing and draftsmanship in several American firms, including the Hal Roach motion picture studios. So far he hasn't thrown any custard pies in the early movie comedy influence apparently was little.

More serious background experience in his record was with the Associated Architects and Planners.

**Tricked By 10 Minutes**

Hans Mayor, also in Architectural Engineering, is a product of Sweden. He was trained at the Royal University of Technology, Stockholm, and has two degrees. After two years in European industry he came to Cal Poly in 1949 but claims he was "tricked" into joining the faculty. Having always lived close to the ocean and liking it, he wanted a job in Califor-

## 'Farming' Defined By Ag Business

The terms "agriculture" and "farming" no longer mean the same thing, although many people use the words synonymously. This is the basis for the Poly Royal display of the Agriculture Business Management department.

According to Dr. Daniel C. Chase, head of the department, "farming is now actually one of several important phases in agriculture, and is much broader than the dictionary definition of a science and art of farming, cultivating the soil, producing crops and raising livestock."

The department's students are designing their display to point out the four specific phases that characterize modern agriculture—farm production, production supply firms, marketing concerns and business or agencies primarily engaged in providing informational, advisory or consultant type services.

As Dan E. Davey, president of the Agriculture Business club explains it, "farm related businesses and farmers are working partners. Our display will emphasize this point, and will show Poly Royal visitors the working relationships of the two."

nia near the sea. When he asked how close the ocean was to Cal Poly he was told it was 10 minutes away.

"In Europe 10 minutes away means 10 minutes of walking time," he explains, "not 10 minutes by auto and freeway." But now all is forgiven, Mager says, "I bought a car."

Jan Van Asperen who will retire next year from the Electrical Engineering staff, is a native of the Netherlands and came to Cal Poly in 1961. He has teaching experience at Middelbare Technische School in Dordrecht, a college he describes as similar to Cal Poly.

"I want a chance to compare



"MUSIC TO EAT BARBECUE BY"—Cal Poly's 54-piece band will provide background music for those attending the Poly Royal barbecue in Poly Grove. The concert will be conducted on the lawn in front of the Administration building and will feature theme songs from popular television shows.

## Dairy Manufacturing Tours New Plant; Samples Given

**By CHARLES DRUMMOND**

Poly Royal visitors to the Dairy Manufacturing plant, located in the new half-million dollar Food Processing building, will not only view dairy products in the making, but will also have an opportunity to sample the finished products.

The plant, which houses a quarter of a million dollars worth of the latest in dairy manufacturing equipment, will be open for public inspection beginning Friday at 2:00 p.m.

Guides from the Dairy Manufacturing department will be on hand to lead spectators through the spotless plant, which not only acts as a class room, but produces products for the campus produce store. The majority of the equipment housed in the building will be in operation to demonstrate various dairy procedures.

Included in the demonstration will be a display in the quality control laboratory showing various aspects of dairy quality control programs. Featured in this display will be microscopic slides, bacterial counters, and other modern laboratory equipment used in day to day quality control and sanitation programs.

The campus produce store, which is operated in conjunction with the creamery and other food areas, will be open for inspection and for business during the two-day event. It houses a modern marketing facility for the products produced on campus and will eventually be part of a retail marketing class.

Several contests for Poly Royal visitors are being sponsored by the Dairy Manufacturing department. The contests, ranging from cheese identification to weight guessing, will feature dairy products as prizes.

the American system of education to that of my country," he recalls. And how does it compare? His belief is that American high school students do not spend enough time on basic subjects.

European students spend twice as much time on the basic courses of study, he says. Knowing this, he can better appreciate the American college students' handicap when they enter college, and he tries to adjust his teaching accordingly.

## Soils Dept. Exhibits Award Winning Paper

Poly Royal exhibits by the Soil Science department include the national award winning student newsletter published by the campus Soil Conservation Society of America.

The newsletter, "The Soil Auger," was composed by a student committee headed by Soils major Dale Wood. It contains all the activities of the past year, including land judging, field trips and activities of both students and alumni.

Another highlight of the department's display is a running water exhibit that proved successful with last year's Poly Royal visitors.

A student-produced model farm, showing good and bad conservation practices, is located in Science building room A-11. Interesting films on soil and conservation will be shown.

There is also a range plants exhibit which combines the work of students from various courses in management, ecology and technology. Soil chemistry, physics, fertility, microbiology, rocks, plants and monoliths on soil classification can also be seen.

The Firehouse Five Plus Two, who will perform during Poly Royal, started playing together on their lunch hour at the Walt Disney Studios where they worked as animators, writers and technicians.

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Cal Poly's "first lady," Mrs. Julian A. McPhee, has acquired many fond memories of Poly Royal over the past 80 years. Here she is entertaining two of their 28 grandchildren, Noel (left) aged 4, and Beth, aged 2. (Photo by Mary Fran Sewell)

## 'First Lady' Holds Fond Memories Of Poly Royal

BY MARY FRAN SEWELL

Poly Royal means many things to many people, and to Cal Poly's "first lady," Mrs. Julian A. McPhee, this year's celebration will bring back many memories of bygone days. Alma McPhee, wife of Cal Poly's president, has lived on the college campus for 29 years in the neat Spanish-tiled home nestled on top of the knoll near the campus' southern boundary. There, she and President McPhee raised their six daughters, and have watched 29 Poly Royals come and go.

"At these first 'country fairs on a college campus' there were merely a handful of spectators," she recalls, in comparison with the thousands of viewers who have witnessed the annual celebration in recent years.

She remembers the horse-drawn floats that were paraded around the campus in earlier years, as well as many of the lovely girls who came from other colleges to serve as Poly Royal queen in the days when the college was an all-male school.

The McPhees have been married 43 years after first meeting in Mrs. McPhee's hometown of San Francisco at a birthday party. They came to Cal Poly in 1933 from Sacramento where he was State Director of Vocational Education. "I drove the girls to grammar and high school then, as school buses had not come to San Luis Obispo," she says.

When the McPhee girls went away to college (Cal Poly wasn't coeducational at the time), they returned home each year for Poly Royal festivities.

The girls spent their college days at schools in the Bay area. Helen, Bernadette and Jean were students at the University of California at Berkeley; Claire attended the College of Holy Names, and Judy, the youngest, attended San Jose State.

Carol, who went to Stanford and graduated from Cal at Ber-

keley, was the only one to receive part of her education at Cal Poly. In 1955, the school opened its doors to women for post-graduate instruction, a year prior to accepting undergraduates. Carol was one of the first to enroll in this post-graduate program in the summer of 1955.

In spite of not being able to attend Cal Poly, three of the girls married Cal Poly graduates. Helen married Emil LaSalle, now teaching high school agriculture at Hanford; Bernadette married Herbert Brownlee, who is also an agriculture instructor now at Arroyo Grande, and Judy married Bill Taylor, who manages a large dairy at Sebastopol.

"Since the children started their own homes, I've had more time to

travel with my husband and to enjoy campus activities," the first lady says. "We often have the children and their families visit us," she remarked, though admits that the family home doesn't quite accommodate the entire family at one time.

Only six weeks ago, the McPhees welcomed their twenty-eighth grandchild. They now have 15 grandsons and 13 granddaughters, the oldest one being 17-years old.

One of her favorite pastimes is making floral arrangements for home. She also plays the piano, although graciously admitting that Carol is the pianist in the family.

The addition of coeds has made one of the biggest changes in Cal Poly, according to Mrs. McPhee. "Not only has it helped to expand the school, but it also caused a noticeable change in the men's dress," she observes.

Poly Royal time is still her favorite time of year. "We annually make it a point to see all the exhibits and sit in as much sightseeing as possible, as well as visiting with our many friends who return to the campus. I don't think I've missed a single Poly Royal, except two years ago when our daughter Claire died," the President's wife said. "Poly Royal holds so many fond memories."

## Stereo Featured In Electronic Dept.

Students in the Electronic Engineering department have completely revamped the two north wings of the East Engineering building to show Poly Royal visitors the radar communications devices and electronic measuring equipment.

Featuring exhibits from the four classes, seven labs are to be open from 9 a. m. to 6 p. m. today and tomorrow with students on hand to perform demonstrations, exhibit their projects and answer questions from puzzled visitors.

A satellite balloon floating over the Engineering building marks the spot of the electronics displays.

Music fans will be interested in a comparative demonstration of stereophonic and monaural high fidelity sound systems by senior Dick North.

Two radar displays will show visitors what it's like to view air-

ground corners and see their own movements on radar.

A big part of the electronic display will be recently completed senior projects. Helms Ersberger, Fred Steinberger, Earl Pomeroy, Richard Murphy, John Hull, John Ripley, George Lang and Barry Rossum will show electronic devices they built as part of Cal Poly's "learn-by-doing" philosophy. Signs throughout the campus will direct visitors to the department's display, there free coffee and an area for relaxation will be provided.

### Western Dance

A western dance will be held Saturday night, in Crandall Gym beginning at 8 p. m. During the dance all rodeo trophies will be awarded to the winning contestants and the team standings will be announced at this time.

## Women's Spring Sports Events Include Fencing Tournament

Poly women's activities in the Physical Education Department during Spring quarter will include a fencing clinic, basketball tournament, and fencing and tennis trips. After a long wait, Poly's women's basketball team will play in the Northern California Women's Basketball tourney. Teams in

the tournament are: University of California at Santa Barbara, Westmont College of Santa Barbara, Fresno State and Cal Poly. No dates on the playoffs have been received but finals will be at Los Angeles State College, Saturday, May 12. One of the above four teams will play the Southern California conference winners.

An adult fencing clinic will be held Wednesday, May 2, 7:30 p. m. in Crandall Gym. Physical Education instructors from schools in the area are invited, as well as

anyone else interested in the sport. The clinic will instruct in rules and techniques of fencing.

San Jose State College will host a fencing meet, Saturday, May 1 for Northern California colleges. Poly students eligible to attend are Gil Deled, Nancy Grant, Marshall Nathanson, Don Lewis, Alan Hilvanin, Adele Grey, Janice Leonard and D. Beauchamp. Advisor Doris Thomas and Clifford Cleiman will accompany the fencers.



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# Coronation Ball Climaxes Poly Royal Festivities

Climaxing the 30th annual Poly Royal, students, faculty and Poly Royal guests will dance and away to the soft sounds of the Collegians in the regal splendor of the Coronation Ball tomorrow night, beginning at 9 p.m.

Kirk Peters, chairman of the dance for the sponsoring Farm Management club, reports that the decorations will feature unique colored lighting on a landscaped floor designed to create the effect of an outdoor garden.

Litened aluminum columns with a black backdrop will surround the bandstand, with a night sky effect achieved by throwing soft "candlelight" lighting across the dance floor.

Highlight of the evening will be the coronation of Poly Royal Queen Jan Madsen. As the clock strikes 10:30 p.m., Queen Jan will be accompanied by the aide by her royal court of princesses, Dianne

Bennett, Judy Church, Joan Esten and Linda Shickley.

She will ascend her royal, golden throne, that rises above the dance floor amid a sea of flowers and plants, to be officially crowned by the 1961 Poly Royal Queen Anne Miller.

Refreshments for the dance will also be in keeping with the royal atmosphere. In addition to dainty cookies, cakes and pastries, fruit punch will be served, all in smorgasbord style.

Couples wishing to remember the Ball forever, may have their picture taken at the dance.

## Senior Projects Spotlited In Mechanical Engineering Lab

Outstanding senior projects will command the spotlight in the Mechanical Engineering department during Poly Royal.

Several past and present students in the department have designed and constructed a wide variety of mechanical devices, many of which have won awards in state and national competition, that will be on exhibit for Poly Royal visitors.

In addition, the department is featuring some top-flight drafting projects completed by students, as well as a special exhibit on kinematics, which deals with the science of gears. The department's fluid-flow and material laboratories will also be open to the public.

For the benefit of those who noticed a strange "ping" in their car while traveling to Poly Royal, the Mechanical Engineers will have a dynamometer available for guests to use in testing their automobiles.

## Patterns of Progress

(Continued from page 2)  
southern California music group.

At 11 a.m. Saturday, Poly Royal participants can restore their waning energies with the traditional barbecued dinner served at Poly Grove. Last year 6,000 were served. At the same time the Cal Poly concert band will perform on the lawn in front of the Administration building.

'Ride'em Cowboy'

Cowboys and broncs, clowns and bulls, and all of the exciting riding and roping events of the annual rodeo will bring participating students from nine colleges bruises and glory. The event in the rodeo arena promises thrills for both

spectators and contestants.

The Rodeo club-sponsored Western dance and the Coronation Ball will climax Poly Royal on Saturday night. High point at the ball will be the crowning of Poly Royal Queen Jan Madsen, while soft formal and stylish suits away to the music of the Collegians among the pleasant perfume of the hundreds of flowers and corsages that will grace the Men's gym.

Sunday, Poly Royal recuperation day, will see carloads of satisfied guests homeward bound, and many tired but happy students at Avila discussing the weekend's events. A few will even be thinking ahead to the next annual Poly Royal—the biggest one ever! It always is.

## Science Student Wins Columbia Scholarship

A physical science junior from Hong Kong, Peter Lee, has been selected to participate in Columbia University's first Summer Institute in Space Physics July 2 to Aug. 10.

Lee is one of eight California students in higher education chosen for the honor. He will receive a scholarship from Columbia University to cover tuition, a subsistence allowance of \$400 a week, round trip travel to Columbia and a field trip to National Aeronautics and Space Administration research centers at Huntsville, Ala. and Greenbelt, Md.

Chosen from 303 applications in national competition, the 82 college winners come from 21 states, District of Columbia and Mexico.

"The selected group is extraordinarily talented," said Dr. Robert Jastrow, director of the new Summer Institute. "Many of the scholarship winners were ranked in the top five percent of their college classes and several in the top two percent." Jastrow is head of NASA's Institute for Space Studies.

The 1962 program will be part of Columbia's regular summer session and is conducted with NASA support. Its purpose is to attract students of exceptional ability and interest in science to NASA space research.

In addition to Lee, the group includes five graduate students, 10 seniors, 31 juniors and six sophomores. All are outstanding science students.



NOT FORGOTTEN—Poly Royal Princess Dianne Bennett assures these little lambs that they will not be forgotten by the numerous guests attending Poly Royal. All of the livestock areas will be open to campus guests throughout the two-day celebration.

## Poly Royal More Colorful, Many Nations Represented

By BILL BROWN

Poly Royal will be all the more colorful as a result of the international students who are attending Cal Poly.

Presently, students from 57 different countries are majoring in 33 of the 37 different curriculums offered by the college. In the Agriculture Division, there are 108 students; the Engineering Division has 138 registered; the Applied Science Division is educating 88, and there are 19 studying in the Applied Arts Division.

An interesting fact is that of all the foreign students currently enrolled, only 18 are coeds.

From the continent of Europe, there are students representing the countries of Belgium, Denmark, Germany, Greece, Hungary, Iceland, Italy, Spain and Turkey.

Star Athlete

One student from Europe is Ingvar Hallatsion, of Hafnarfirdi, Iceland. He is a junior majoring in Printing Engineering and Management and is a prominent athlete both at Cal Poly and in his native land. Ingvar is currently rated the number one javelin thrower of Iceland, and expects to represent his native country in the 1964 Olympics.

Middle Eastern countries represented include Egypt, Iran, Iraq, Israel, Jordan, Lebanon, Morocco, Saudi Arabia, Syria and Tunisia.

Big Game Hunter

Among the Middle Eastern students with interesting backgrounds is Najib Hamdan, a Fruit Production major from Beirut, Lebanon. Najib, who is completing his junior year at Cal Poly, was recently a candidate for president of the Cal Poly student body for next year, and holds the distinction of being the first foreign student in college history to seek the job.

Najib's father is a retired judge

who at one time was District Attorney for Beirut. In 1957, the Cal Poly student had the experience of big game hunting in Africa where he bagged a rhinoceros and a lion as trophies. At Cal Poly, he has been a member of the college's league champion boxing team.

A Newcomer

Also from the Middle East is Faris Mustu, whose home is in Baghdad, Iraq. He has only been in this country approximately three months and is in his first year as a Crops Production major. Faris's father is presently a lawyer in Baghdad, and is a former assistant chief of the Iraqi police.

Latin American nations represented on campus include Argentina, Bolivia, Brazil, Chile, Columbia, Dominican Republic, Ecuador, El Salvador, Guatemala, Mexico, Nicaragua, Panama and Venezuela.

Agricultural Majors  
One of the Latin American students is Jorge Patino from La Paz, Bolivia. He is a senior taking a double major in Animal Husbandry and Dairy. Jorge's father is a rancher and hotel owner, while his uncle, Daniel Bustamante, is minister of education for Bolivia.

Another Latin American student majoring in Animal Husbandry is Tony Mombiola of Guatemala. Tony's family are ranchers and grow coffee on their

## Agricultural Progress Shown In Farm Management Dept.

Progress in agriculture over the past 40 years will be the feature of the Farm Management department's Poly Royal display.

The exhibit will feature a revolving column depicting the Poly Royal theme "Patterns of Progress" surrounded by an oval divided into four sections. Each will portray the outstanding accomplishments made in agriculture during that decade.

Emphasis will be placed upon the amount of food produced by each farmer in terms of how many people he supports by his labors. The background of the exhibit will be a mosaic made by students using various colored grains.

550 acre plantation. At present, his uncle, Pedro Mombiola, is Guatemala's secretary of agriculture.


From the Far East are students from Afghanistan, Burma, Cambodia, China, Hong Kong, India, Indonesia, Japan, Korea, Pakistan, Thailand and Viet Nam.

Non of Publisher

Calling Tokyo his home town is Journalism freshman Sadao Shindo. Sadao's father is owner of the Shindo Printing Company, one of the largest in Tokyo. At one time, Sadao's grandfather was the governor of Hiroshima.

The African nations are also represented on campus, with students from Ghana, Kenya, Liberia, Nigeria and Sudan.

Rounding out Cal Poly's own United Nations "delegation" are students from Australia, British Guiana, Canada, Jamaica, Philippines, and Tahiti.



### On Campus

with Max Shulman

(Author of "Rally Round The Flag, Boys", "The Many Loves of Doble Gills", etc.)

## CRAM COURSE No. 3: ENGLISH POETRY

Final exams will soon be upon us. This is no time for fun and games. Let us instead study hard, cram fiercely, prepare assiduously.

In this column today let us make a quick survey of English poetry. When we speak of English poetry, we are, of course, speaking of Byron, Shelley, and Keats. Some say that of the three, Keats was the most talented. It is true that he displayed his gifts earlier than the others. While still a schoolboy at St. Swithin's he wrote his epic lines:

If I am good, I get an apple,  
So I don't whistle in the chapel.

From this distinguished beginning, he went on to write another 40,000 poems in his lifetime—which is all the more remarkable when you consider that he was only five feet tall! I mention this fact only to show that physical problems never keep the true artist from creating. Byron, for example, was lame. Shelley had an "ugrown" hair. Nonetheless, these three titans of literature turned out a veritable torrent of romantic poetry.

Nor did they neglect their personal lives. Byron, a devil with the ladies, was expelled from Oxford for dipping Elizabeth Barrett's pigtail in an inkwell. He thereupon left England to fight in the Greek war of independence. He fought bravely and well, but women were never far from his mind, as evidenced by this immortal poem:

How splendid it is to fight for the Greek,  
But I don't enjoy it half as much as dancing cheek to cheek.  
While Byron fought in Greece, Shelley remained in England, where he became court poet to the Duke of Marlborough. (It is interesting to note in passing that Marlborough was the original spelling of Marlboro Cigarettes, but the makers were unable to get the entire word on the package. With characteristic ingenuity they cleverly lopped off the final "gh". This, of course, left them with a "gh" lying around the factory. They looked for some place to put it and finally decided to give it to the Director of Sales, Mr. Vincent Van Gogh. This had a rather curious result. As plain Van Gogh, he had been a crackerjack director of sales, but once he became Van Gogh, he felt a mysterious, irresistible urge to paint. He resigned from the Company and became an artist. It did not work out too well. When Van Gogh learned what a great success Marlboro Cigarettes quickly became—as, of course, they had to with such a flavorful flavor, such a lifterful filter, such a flip-top box, such a soft pack—he was so upset about leaving the firm that he cut off his ear in a fit of chagrin.)

But I digress. Byron, I say, was in Italy and Shelley in



He resigned from the Company and became an artist

England. Meanwhile Keats went to Rome to try to grow. Who does not remember his wistful lyrics:

Although I am only five feet high,  
Some day I will look in an elephant's eye.

But Keats did not grow. His friends, Shelley and Byron, touched to the heart, rushed to Rome to stretch him. This too failed. Then Byron, ever the ladies' man, took up with Lucretia Borgia, Catherine of Aragon, and Anne Oakley. Shelley, a more domestic type, stayed home with his wife Mary, and wrote his famous poem:

I love to stay home with the mouse and write,  
And hug her and kiss her and give her a bite.

Mary Shelley finally got so tired of being bitten that she went into another room and wrote Frankenstein. Upon reading the manuscript, Shelley and Byron got so scared they immediately booked passage home to England. Keats tried to go too, but he was so small that the clerk at the steamship office couldn't see him over the top of the counter. So Keats remained in Rome and died of a broken heart.

Byron and Shelley cried a lot and then together composed this immortal epitaph:

Good old Keats, he might have been short,  
But he was a great American and a heck of a good sport.

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# El Mustang

CALIFORNIA STATE POLYTECHNIC COLLEGE

## College's 75 Student Clubs Offer Wide Variety of Exhibits, Events

By ESTHER ALEXANDER  
Joining in the spirit of this year's Poly Royal are Cal Poly's 75 clubs which have announced displays, exhibitions, booths and demonstrations.

A popular display which has delighted visitors every year in the past is Poultry club's colored baby chicks. These chicks, tinted every color in the rainbow, catch the eye of youngster and older alike. Hatching of baby chicks in a glass incubator installed by the club is another sight to watch.

"Miss Mathematics of 1962" is being sponsored by the Math club to represent the club and the mathematics department during the weekend festivities.

She will act as official hostess for the visiting delegation of high school students competing in the Math department's annual contest, and she will serve as a receptionist in the lobby of the math building.

Art club, in cooperation with the Fine Arts committee of College

Union, will have a student art exhibit in the Temporary College Union.

The Corinthians sailing club plans a hot dog booth to serve the hundreds of visitors touring the campus.

A daring exhibition of motorcycle trick riding will be executed out on the airstrip by the Poly Penguins, the motorcycle club. Members will ride their cycles on one wheel and through circles of flame.

Home Economics club is working in direct conjunction with the "home ec" department to present displays that symbolize the variety of work done in the department.

### Kiddies to Cavort

A child care class will be conducted by some of the home economics majors in the new modernistic observation room. This room has a one-way glass window so that visitors may observe the children. There will be 18 children between the ages of three and four under supervision of the college students.

Interior decorating, textile, and costume design booths will help illustrate some of the work in this department.

A recruitment room will be open where interested pre-college girls may inquire about the home economics program at Cal Poly.

The Home Economics club also, as a service, will present fashion shows for the luncheons that various other clubs will have in celebration of Poly Royal.

The Young Democrats have invited Governor Edmund G. Brown of California or a representative from the legislature to be their guest.

Many other club displays will be held but have not yet been announced officially.

### A Clean, Close Shave

Prizes worth more than \$80 will be given for the bushiest, the longest, the most artistic and the slickest beards entered in the Poly Royal Beard Growing contest, sponsored by the Agricultural Engineering Society.

A group of instructors will select the winners on Friday at 2 p.m. behind the Agricultural Engineering shops.

All students and faculty members are eligible.

### Bennion and Smith Judge

Warren Smith, dean of Agriculture and Lyman Bennion, Animal Husbandry Department head, participated recently in the Future Farmers of America field day.

Smith and Bennion served as livestock judges for the FFA of Ventura county. Approximately 200 FFA members participated.

## Technical Arts Exhibit to Parody TV's 'Flintstones'

By DAN SCHILLING

Characters taken from "The Flintstones" television program will be shown in the Technical Arts department's Poly Royal exhibit, according to the general chairman of the Technical Arts Poly Royal planning, John Patterson.

The popular television cartoon cave-men, representing Technical Arts students, will be given a more "cultured" appearance as they advance through the major curriculum in the displays in Room 106 of the Graphic Arts building. Patterson said, "We hope to give the figures a three-dimensional appearance by using colored lighting."

Stages of development for a Technical Arts student will be shown by steps in the exhibit, with Freshman, Sophomore, Junior, and Senior displays placed in sequence as they add to the stature of the cave-man characters. Patterson pointed out, "At the Junior level a split in the curriculum between teaching and sales-service is pictured as a fork in the path of the cave-men, and each of these phases will be developed separately in the rest of the exhibit."

The center of the room will feature a table with all the texts studied by Cal Poly Technical Arts students. There will also be a display of the Cal Poly Homecoming parade float trophy, won by T.A. this year, and pictures from the Morning Prom put on by the Technical Arts Society.

"After the Senior section and graduation there will be a large display of the on-the-job activities of a Cal Poly T.A. graduate in the teaching and sales-service fields," Patterson explained.

## Physical Education Tours of Men's Gym On Poly Royal Bill

During Poly Royal the Physical Education Department will have guided tours through the Men's gymnasium. Visitors will be conducted through the spacious locker room, the steam room, the "sunkin" gymnasium room, the special boxing and wrestling rooms, and the classrooms and offices. They will also be able to see the kitchen and the glassed-in press box above the gym floor.

A demonstration will be given by the members of the department on how to erect the boxing ring and how the folding bleachers operate. After viewing the inside of the gym, visitors will be free to tour the volleyball, tennis, basketball and handball courts outside.

Several athletic events are also scheduled. On Friday, the baseball team will play Westmont College, and a swim meet will take place between Cal Poly and El Cerritos Junior College. On Saturday the baseball team will play two games against San Jose State. A gymnastics meet is tentatively scheduled for Saturday to replace the water ballet which will not be held this year.



**HIT THE RIGHT NAIL . . .** Women visitors to Poly Royal can try their hand at driving nails in the traditional nail driving contest. The event is held at the Agricultural Engineering shops, and all "comers" are cordially invited.

## Welding Planning Exhibit of Metals

A large exhibit of metals will be displayed at Poly Royal by the Welding and Metallurgical department and several missile engine cases will also be on display. A display of all laboratory equipment will be kept in operation by students.

Some of the special test equipment to be shown includes an ultrasonic defect finder which finds weaknesses in metals by passing ultrasonic audio waves through the metal. Visitors will also see a fatigue testing machine and a vacuum furnace.

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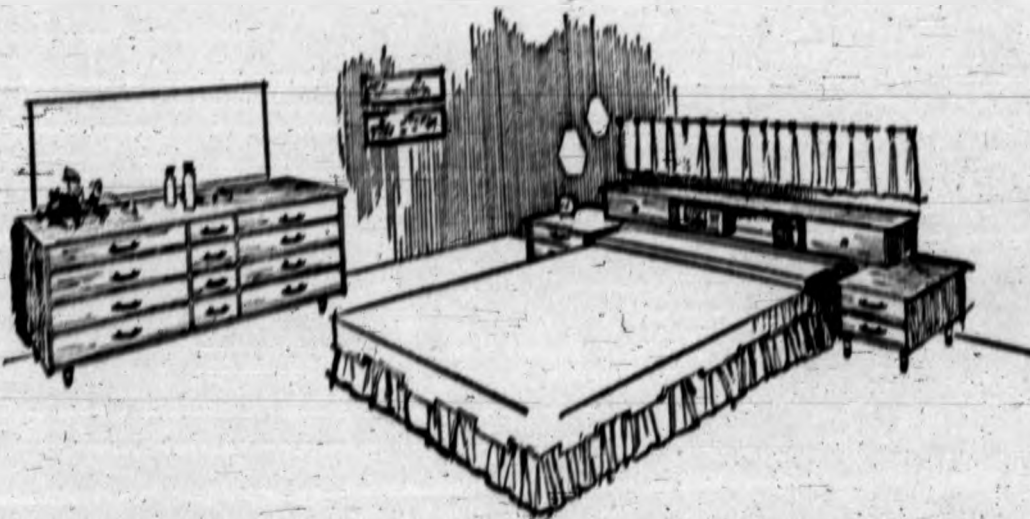
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## ROTC Unit to Exhibit Unusual 'Army Mule'; Public Rides Free

By PATRICIA OWENS

What does the ROTC do? What do missiles look like? What is the latest in U.S. Army artillery? What is an Army Mule?

These questions and others will be answered at the ROTC's Poly Royal exhibit in the Agricultural Engineering building, room 122.

Map reading and illustrations of other subjects taught in Military Science and Tactics will make up the ROTC indoor display.

Small scale models of U.S. missiles, the M-14 rifle, and M-60 machine gun will be in the outdoor exhibit, behind the Ag. Eng. building.

Visitors will have an opportunity to ride an Army Mule, a light weight vehicle for transporting equipment over rough terrain.

Demonstrations by the drill team, for which they have received wide acclaim, will be on the program, according to Lt. Col. Alexander F. Maricenda, Professor of Military Science and Tactics.

The ROTC Cadet Corps at Cal Poly has five companies commanded by Cadet Colonel Mark B. Haselton, Architectural Engineering major. He is assisted by Cadet Lt. Col. Davis V. Beaucamp, Business; Cadet Major Walter Klumpner, Business; and Cadet Capt. Allan Pauso, Electronics.

The ROTC Poly Royal festivities will be ruled by this year's

Military Queen, Lucy Hadenhoop.

The Army Reserve Officers' Training Corps aims to develop officers for the United States Army, and to provide a corps of well-educated, well-rounded leaders for an Army that would have to expand with lightning speed in a national emergency.

### Two-Year Courses

At the college level, the ROTC course of instruction is split into the basic course and the advanced course. Each phase lasts two years.

In the basic course all study is for two years. This includes military science I, involving organization in Army, marksmanship, U.S. Army and national security. Military science II in the sophomore year includes American military history, map reading, and tactics.

To enter the advanced course, students apply and are selected if they meet the requirements. It consists of five hours per week, 800 hours total, on-campus study plus a summer camp training session of six-week's duration. Summer camp training follows completion of the junior year in college.

### What They Study

In military science III, the cadet studies leadership, military teaching methods, tactics and school of the soldier and exercise of com-

## Undergrad's Paper Wins Regional Award

Richard S. Caldwell, a Biological Science major, won first place at the Western Regional Conference of Beta Beta Beta, national honorary biological society, for his scientific undergraduate paper and has been offered a research assistantship in zoology at Duke University.

Caldwell plans to study for a master's degree in physiological ecology of marine organisms.

In military science IV, courses include operations, logistics, military administration, military justice, service orientation, leadership drill, and exercise of command.

Following successful completion of the advanced ROTC course, cadets are commissioned as 2nd Lieutenants upon graduation. This is followed by two years of active duty and four years of reserve.

The Cal Poly ROTC graduates about 25 men a year. At this time, approximately ten are overseas.

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OPEN EVENINGS

**Sam Crisler Dies**  
Students and staff were saddened last week by the sudden death of O. H. (Sam) Crisler who had been an employee of the college for many years and was assigned to the Farm Shop area. He died from a heart attack.

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**Frank talk about your hair: Vitalls with V-7 keeps your hair neat all day without grease.** Naturally, V-7 is the greaseless grooming discovery. Vitalls with V-7 fights embarrassing dandruff, prevents dryness, keeps your hair neat all day without grease. Try it!



## Cindy's listening to flowers talk

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Gardeners understand this feeling best. They've worked their fingers in warm, musky soil. Watched a shoot catch its first sight of day.

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Out of this research have come many gardening "firsts," which you can share by reading the ORTHO Lawn and Garden Book, available at garden supply stores.

At Standard we're interested in everything that grows... whether it's a hillside's bright blanket of flowers, or one proud plant in a window box.

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## Dairy Students Vie In Judging Honors Show Results of Many Hours Labor

Poly Royal is one time of the year that the Dairy department looks forward to, when the dairy animals are judged in competition after a hard week of preparation in the dairy fitting and showing class under instructor Herman Rickard.

An impressive list of awards and trophies will be given in the contest. These include the Nelson Page trophy for the sweepstakes winner. First, second and third place awards will be given by the Holstein-Friesian association, the American Guernsey association, and the American Jersey association.

The week prior to the contest finds dairy students in the fitting and showing class learning how to make blankets, and how to clip, wash and prepare the animals for showing. The college dairy herd of

Guernseys, Holsteins and Jerseys numbers about 175 head of stock. Dairy products will be on sale in the campus store in the new Food Processing building and the college creamery will be open for public inspection under guidance of instructor Kenneth Boyle.

The Dairy department is responsible for manufacturing of dairy products that are served in the college cafeteria and dining rooms. These include butter, cheese, milk and ice cream.

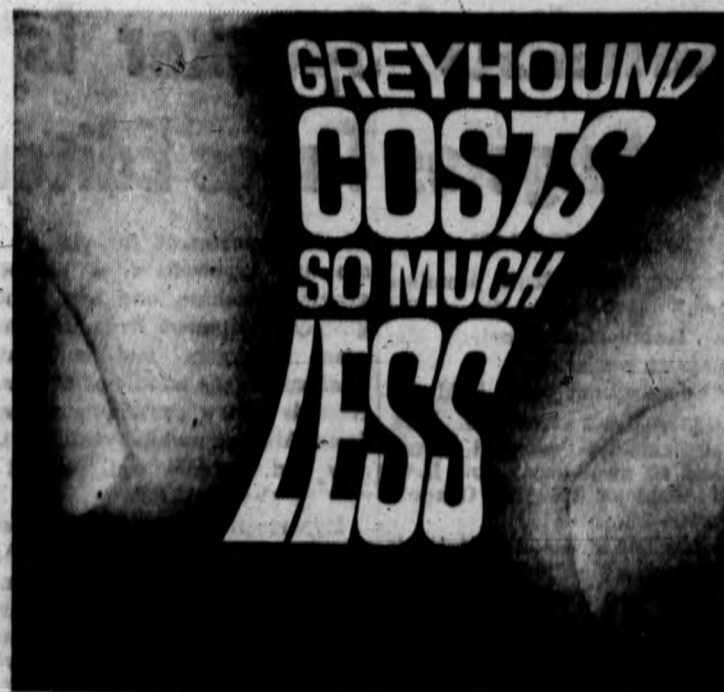
## Military Men Invited To New Campus Club

A veteran's club is now being established on campus according to college officials.

The club, whose objective is to further the interests of those who served in the military forces, is open to all student ex-GI's, reservists and National Guardsmen.



**HOW DOES SHE LOOK?** . . . Students in the dairy showmanship contest tomorrow morning in the dairy pavilion, will be competing for coveted trophies as they put their animals through their paces. Many hours of labor by the students have gone into grooming the animals for this annual event.



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## Journalists' Speaker Is Los Angeles Times Editor

By DON HOGGAN

This year's Poly Royal promises to top all past ones as far as Cal Poly's Technical Journalism department is concerned.

The department will hold its annual banquet, welcome back alumni, conduct escorted tours and hold an open house, and have varied displays in the Graphic Arts building.

The student Press Association's annual banquet will be held Sat. evening, at the Elks Club in San Luis Obispo. Frank McCullough, managing editor of the Los Angeles Times, will be the guest speaker. He will address about 200 journalism students, alumni, and special guests on the subject of "The Future of Journalism."

Returning alumni will see the new headquarters of the department and displays representing the four course specialties under Technical Journalism.

Included in the new equipment

of the department for visitors to see are typewriters, a photoengraving machine, and new photography equipment including cameras, enlargers and automatic washers. In the middle of the news room is a new custom-made copy desk. Also on exhibit will be the new radio studio equipped at a cost of about \$35,000.

Departmental competition will be keen again this year as the Agricultural Journalism students will attempt to retain the department trophy for the most outstanding display. They have won this trophy for the last three years. The Home Economics, Agricultural, Business and Community journalism section all try to outpoint each other.

Open house of the department's facilities will get underway Friday morning at 8 o'clock. All interested students, parents, faculty members and guests are urged to attend.



Looking east from a hilltop vantage point is a view of the recently completed Graphic Arts Building which houses the Technical Journalism, Printing Engineering and Management and Industrial Engineering departments.



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### Check your opinions against L&M's Campus Opinion Poll #19

#### ① What will the cold war turn into?



- ☐ an even colder war
- ☐ a hot war
- ☐ an industrial and trade contest

#### ② Do a coed's chances of getting the right man diminish after college?

#### ③ With a friend's pack of cigarettes on the table, would you...



- ☐ Yes
- ☐ No



- ☐ take one?
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#### HERE'S HOW MEN AND WOMEN AT 56 COLLEGES VOTED.

	Men	Women
① Cold war	25%	31%
② Hot war	27%	27%
③ Contest	48%	42%
④ Yes	48%	44%
⑤ No	52%	56%
⑥ Friends	42%	43%
⑦ Your own	58%	57%

L&M's the filter cigarette for people who really like to smoke.



## Poly Switchboard Hears All, Sees All

Cal Poly's switchboard operators sometimes feel like the Encyclopedia, Almanac, Herd Book, and phone book yellow pages all wrapped into one.

Located in the hall of the Administration building, the switchboard and information window, manned by Betty Rodriguez and Pat Beltrami, is the core of communications for the entire campus.

Working the switchboard isn't a boring job, according to Pat. Besides connecting incoming calls with various offices and departments on campus, they place all long distance calls originating from Cal Poly. In addition, operators keep track of all long distance calls from departments and instructors for billing purposes.

Open eight hours a day, six days a week, the switchboard and information window attracts campus visitors, students and faculty with questions about Cal Poly, its personnel, and its activities.

"We have to keep abreast of campus activities ranging from ball games to meetings," remarked Mrs. Beltrami.

The switchboard handles emergency calls and can easily locate students or staff by referring to a locator file.

Channeling about 50 long distance calls a day is average at the Cal Poly switchboard. Many calls are received from families of students in Europe, Asia, South America, and other parts of the world.

A daily service rendered by the switchboard operator is relaying temperature and rainfall data compiled by campus security to the local newspaper, Telegram-Tribune.

Although no special schooling is required to learn the switchboard operation, Mrs. Rodriguez says that a new operator masters the intricate system through practice and on-the-job training. Knowing the campus, building locations, office numbers, staff and faculty members, and activities, is the most important job.

Like big city operators, receiving prank calls including everything from jokes to pointless questions, the Poly operators have their moments too.

Mrs. Beltrami recalls receiving questions like "What should I do to get a swarm of bees out of a tree in front of my house?" or "Can you tell me

what to do with the horse walking on our lawn? She pointed out that most of these unusual calls are from San Luis Obispo residents rather than students.

Answering a multitude of questions, giving directions, connecting telephone calls, and smiling prettily are all in a day's work for the women behind the campus switchboard.



**PLENTY OF AIR . . .** A demonstration in the art of glassblowing can be seen in the Physical Science department's display in the Science building. This popular exhibit is quickly becoming a Poly Royal tradition.

### Engineers Show Class Work Offer Baby Sitting Service

A feature of the Electrical Engineering department's display is an exhibit of work done by students in their various classes.

Also included in the display are computers, a lie detector, and a post dictator, as well as an exhibit showing the connection between electricity and medicine.

As an added attraction to the department, the students have organized a baby sitting service for Poly Royal visitors, which will be in operation throughout the week-end celebration.



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# Home Econ's Fashion Show Will Offer Appeal to Milady

By RUSAN TERRE  
A visitor on the Cal Poly campus for Poly Royal could spend the entire two days looking through the Home Economics department and still not see everything. Each of the 26 classes will set up a display in one of the rooms in the Home Economics section of

the two-year-old Mathematics and Home Economics building. One highlight of this year's activities will be a fashion show given by the home ec. majors who will model garments they have made in clothing classes. For those with a sweet tooth, the department will sell fudge and

other candy to help earn money for the Home Economics club, and also give the girls a chance to show skills in candy cookery.

Many displays in the various rooms will interest homemakers. There will be demonstrations ranging from "how to care for the sick" to "how to upholster furniture."

A demonstration will be given by three girls on survival in the home after a nuclear attack. The girls will show sanitation methods, food needed and emergency supplies. One of these demonstrations will be given each day.

## Textiles Test

The textiles class will have on display some equipment used to test the quality of textiles. These machines test the strength and durability of a material. The girls will demonstrate a machine called a Fadeometer which measures the extent that a material will fade.

The home management class will display charts on budgeting money, and give efficiency demonstrations showing how to iron a shirt in four minutes.

Flora charts will show the area covered by the average housewife in her daily chores, and can show her how to save time and energy while doing her tasks.

The family meals class will also give the housewife some helpful hints on how to save time. They will show how to cook, serve and clean-up a meal in only 45 minutes.

Men's plaid shirts and children's garments will be on display in the family clothing room. Other classes with displays or demonstrations are interior decorating, family nutrition, and finishing techniques.

## Nursery School

One of the most entertaining "displays" in the Home Economics department is the nursery school. Visitors can view the antics of the pre-schoolers at play through a one-way window.

In the past, the Home Ec. department cared for the children of visitors on campus during Poly Royal in two hour shifts. However, the practice had to be discontinued because there were too many children to handle at one time.

Hostesses will be on hand to show visitors through the building, and to answer questions about the many modern appliances in the department.

First tours of this kind were held in 1960 when the building was new. Before the completion of the new building, the girls were able to show only a few displays.

The new Math and Home Ec. building has now enabled the Home Economics department to put on one of the largest and most educational displays on campus.

Cal-Poly is composed of four divisions—Agriculture, Engineering, Applied Arts and Applied Sciences.

## 1200 New Students Accepted For Fall Quarter Enrollment

More than 1200 students out of 1825 applicants as of March 30 have been accepted for admission for Fall quarter, the Admissions office announces. Applications are about 30 per cent higher than last year when 1858 submitted applications.

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Math Queen Jacquie Paul will welcome the many high school juniors and seniors who will be competing today in the Mathematics department's annual math contest. She will also be on hand to serve as a hostess in the department's displays.

## Mathematics Queen To Welcome Public

The Mathematics department is ready for the Poly Royal celebration. Earl Ogle, president of the Math club, indicates the club plans to show interesting displays by the entire department.

The displays will comprise the latest developments in mathematics, senior projects, IBM computers, and other devices useful in the profession.

Math Queen Jacquie Paul will be official hostess to assist Dr. Milo E. Whitson, department head, in preparations for the Poly Royal math and chalk talk contest on Friday.

Contestants are grouped into three sections — high school seniors, the general public and high school juniors.

"In the senior division," Ogle said, "problems given will range from simple arithmetic through complex geometry and trigonometry."

The purpose of this type of test he said, "is to stress reasoning ability rather than arithmetic and algebraic manipulations."

The general audience section is open to teachers, parents, students and other interested persons.

The high school juniors section consists of "chalk-talk" contestants competing on an oral basis. Quick thinking and logical response to oral questions given by the examiner are important factors that will determine the high school junior's mathematical abilities.

There will be three rounds in this contest, "the previously assigned topic," "the extemporaneous," and the "research paper."

The first two rounds in Ogle's opinion are the most interesting. The students' reactions are clearly shown by facial expressions and lip movement as a student decides his answers.

Three judges will rate and evaluate the best among the student contestants.

Scholarships will be granted the winner, and second and third place winners will receive useful materials such as slide rules.

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**FIREHOUSE 5 TO APPEAR . . .** The Firehouse 5 Plus Two will again be on hand at Poly Royal with their long list of musical antics. In addition to a Friday afternoon concert in the Little Theater, the noted group will provide the musical strains for the Carnival dance tonight.

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## Industrial Engineers Plan Tour of New Department

The Industrial Engineering department is planning an extensive tour of its new department in the Graphic Arts building during Poly Royal. The tour will be in four parts under the theme, "The il-

lustration of Industrial Engineering Aids to Other Companies."

The Industrial Engineering club has selected many members for the various jobs involved in the Poly Royal Program. Poly Royal Chairman for I.E. is Bill Wasbrough. He is in charge of directing and organizing facilities of the department.

The tentative display worked out by coordinator Doug Forques, according to Advisor George Hoffman, an instructor, is "very substantial and organized". The department tour will begin at the entrance to the Graphic Arts building with a display to show how an industrial company, in general, functions. The tour will take in the various laboratories where displays will show the four areas of large companies and how Industrial Engineers help these companies function.

Visitors will learn how research and development, reproduction, tool design, and quality standards designs help the companies begin a project. Students from each class will show the various machines and tools on exhibit.

Production, the planning stage of the project, will display estimating, motions and time factors, plant study, land layout, and equipment control.

In the shipping and receiving display, employees' timetable, materials, controls of building maintenance, and controls of inventory crew, will be shown.

In the display of a personnel division, visitors will see wage administration, cost accounting, purchasing, wage control and sales demonstrated. Each person in the various jobs will explain the fundamental operations of his office. Also shown here will be the various computing machines.

Industrial Engineering classes will work and show the exhibits jointly. The freshman representative has planned a general display which will include machine and welding specimens, reports, and a tentative design for filing system.

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**SMELL THOSE STEAKS A FRYING...** Poly Royal visitors won't mistake the smell of frying steaks that will permeate the campus Saturday morning. The annual barbecue will get underway at 11 a.m. tomorrow in Poly Grove, near the Administration building. Last year, more than 6,000 people were served, gaining a needed lift for the afternoon activities.

## Queen will be Busy as a Bee

"Miss Cal Poly, Queen of the 1962 Poly Royal," is Miss Jan Madson, a Physical Education major from Santa Maria. She'll have numerous activities, places to be, radio and television appearances and many other things to do before, during and after Poly Royal.

Traditionally, the queen and her court attend a reception the even-

ing before Poly Royal officially opens. At the reception, she and her court are presented to College President Julian McPhee, the student body officers, and other campus leaders. The guest speakers and guests of the college are also introduced.

The following day is a busy day for the queen and her court. They

participate in the opening ceremonies and at the Intercollegiate Rodeo in the Bud Collet Arena in an official parade. The rest of the day is spent greeting guests and appearing at certain exhibits on schedule so the people can be sure to get a good view of her majesty. The royal party will reign over all Poly Royal activities and the queen will be crowned by Miss Anne Miller, 1961 Poly Royal Queen.

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