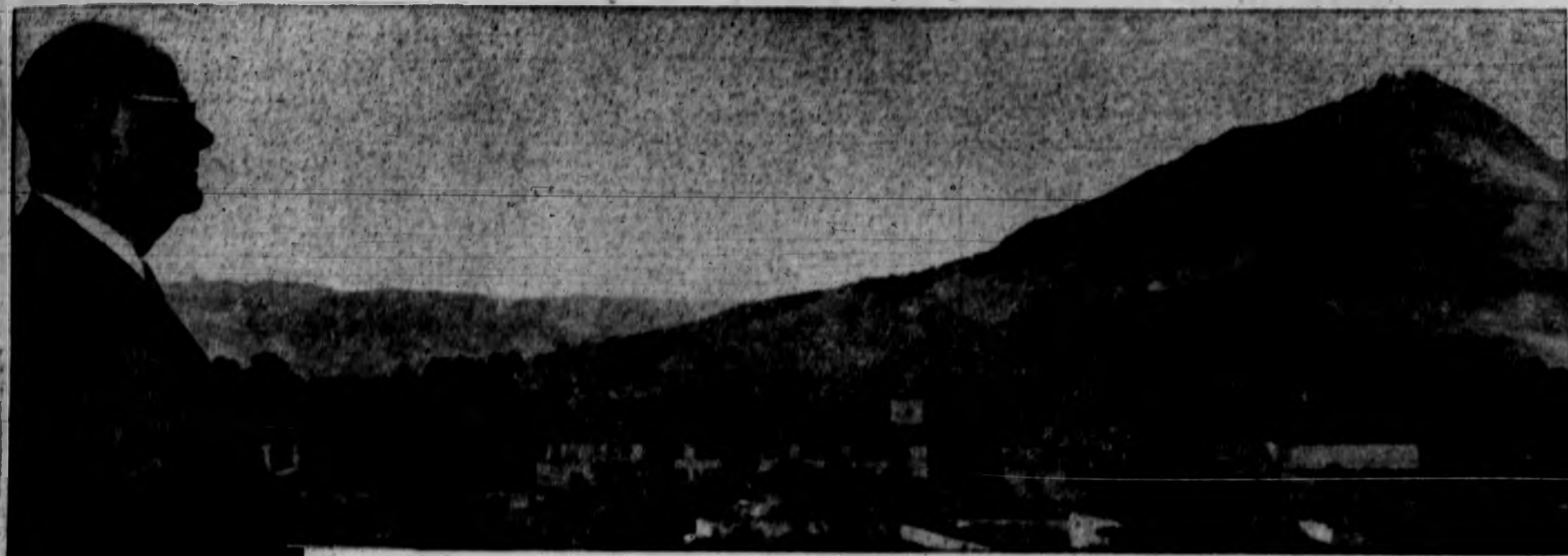


# Homecoming 1965-66, 'Reflections of a President'



## el mustang

CALIFORNIA STATE POLYTECHNIC COLLEGE

VOL. XXVIII, No. 13

SAN LUIS OBISPO, CALIFORNIA

FRIDAY, NOVEMBER 19, 1965

### SAC approves donation drives

Three campus organizations, all of which had invested time and money in their donation drives before approval, had the drives approved by SAC at last week's meeting.

A clause in the code on donation drives says that there can only be two donation drives going on at one time. The Young Farmers and the Rose Parade Float Committee have their drives approved under the code. Before these other three came up.

Crops Club had gone ahead and made plans to hold a drive at the same time but they had not yet been approved. George

James, ASI vice president said that he believed this to be an honest mistake on the part of the club and that the club stopped donation activity until approval. SAC set aside the code and approved the drive. The vote was 17-5. The drive is scheduled for Nov. 16-14.

Ken Mizeum, Engineering Council representative, said that in the future clubs should not have purchase orders approved for using their funds to print tickets, buy prizes and for publicity unless the drive has been approved by SAC.

Then Rifle and Pistol Club donation drive came up for approval. Publicity had already been put out. The drive, connected with a pistol shoot, is scheduled

to end Nov. 21. SAC set aside the codes and approved this drive.

Ag Engineering Club was also up for a donation drive approval. Their drive is scheduled Nov. 20 through Dec. 2. The tickets had been printed and the prize bought. SAC then approved the drive.

Dave Brown, SAC Ag Council representative, said that in the future clubs should not have purchase orders approved for using their funds to print tickets, buy prizes and for publicity unless the drive has been approved by SAC.

Charles Dudley, representing Finance Committee, recommended that SAC appropriate \$7,000

from the general reserve as a fund to purchase and maintain two station wagons.

"Safety and transportation are primary reasons Cal Poly needs automobiles. Various things have gone wrong with individuals' cars; so, two extra would help considerably. Besides, athletic teams must frequently make out-of-town excursions as well as the judging teams, the Board of Publications, and SAC members for joint meetings," explains ASI graduate manager, Robert Spink.

It was pointed out that Cal Poly would get state rates and four cents a mile on gas. Top and bottom bids range from \$2995 to \$3100, according to Spink, for each of two 1965 or '66 nine-passenger station wagons, complete with warranty coverage.

Some of the minimum specifications and equipment include automatic transmission with three speeds forward, power steering, back up lights, electrically operated tail gate window, vinyl floor covering, radio, tubeless tires, and heavy duty suspension.

A motion by John Theilon, arts division, to table the automobile matter for two weeks was carried by a vote of 16-5.

All-Poly Weekend, January 28-29, will be held at the Kellogg-Voorhis campus, which will plan activities and provide housing and meals. The San Luis Obispo campus will provide transportation either by a party train or bus. A social, intramural sports, tri-cycle racing, and a presentation by President Julian McPhee comprise the agenda.

Rally Committee, against losing any more of the college's traditions, does not wish to maintain the "P". Therefore, the sophomore class, loser of the Fresh-Roph Brawl, must continue with its upkeep.

### Grad of '52 named alum of the year

Yerner A. Mize, who began his career with General Electric Company in 1952, has been named "alumnus of the year" for Cal Poly.

Mize, manager of electric utility sales for small steam turbine department at General Electric, will be honored by Cal Poly faculty, students, and alumni when the campus holds its annual Homecoming observance this weekend.

A graduate with the college's class of 1952, Mize majored in electrical engineering and, during his senior year at Cal Poly, served as student body president.

While Mize served as student body president he was instrumental in bringing then Governor Earl Warren to the Cal Poly campus, in addition to the Mel Venter Breakfast, Gang radio show. During his junior year Mize also led a blood bank drive which won for Cal Poly a first place position in its category on a national basis.

Upon graduation Mize accepted a position with the General Electric Company and progressed through as test engineer; power transformer design engineer; supervisor, apparatus sales training program; specialist marine reactor applications; and general sales specialist for the equipment and utilities sales operation, to his present position.

Mize and his wife Jane have three daughters. Their home is in Lanesville, Mass.

### Fourth quarter confirmed

There are tentative plans to begin offering a full 11-week quarter, starting this fall, announced Donald Wilson, executive dean of the college at a recent press conference.

"We expect to offer a summer quarter curriculum expanded perhaps as much as 10 per cent over that offered during the summer in recent years. The curriculum to be offered, however, will be a large extent depend upon the number of students who plan to enroll for the quarter and their needs," said Wilson.

Dale W. Andrews, dean of the college, said that it is hoped that eventually the program can become equal in all respects with the other three quarters. However, this will take some time to develop.

The summer quarter is to be financed in the same way as the traditional three quarters, accord-

ing to Wilson. The budget for its operation has been submitted for approval by Chancellor Glen S. Dumke and the Board of Trustees of the California State Colleges.

A summer session, which would be offered parallel to the summer quarter, is also in the planning stage. According to Wilson, the session "must be self-supporting in that it must fully pay for its operation. 'Per unit' tuition fees will be charged to meet costs of faculty salaries, materials, etc." The summer session will primarily consist of professional education courses.

Two publications, announcing the Summer Quarter, will be published about Feb. 1.

The subject of faculty participation in the selection of the college president came up at the press conference.

Title 5 (Education) California Administrative Code, section 42702 includes the following:

"The Chancellor or his designee after receiving and considering

recommendations from any sources, including interested faculty, shall recommend to the Trustees two or more candidates for the presidency of a college."

According to Andrews, "The Faculty-Staff Council is anticipating that it will be the vehicle by which an Advisory Committee to the Chancellor's Office for the Selection of Presidential Candidates will be established.

The "Ad Hoc Consultative Committee on Presidential Selection Procedures" is a Faculty-Staff Council committee now in existence. The primary function of the committee is to establish some type of advisory committee and its policy and procedure.

Andrews said that he felt confident that "the Chancellor will communicate with the San Luis Obispo campus concerning consultation at the appropriate time."

Athletic competition between the two Poly campuses was also (Continued on page 4)



# El Mustang

CALIFORNIA STATE POLYTECHNIC COLLEGE



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### Pictures scheduled for Seniors in Jan.

Individual photographs of graduating seniors will be taken during the week of Jan. 17-21, El Rodeo editor Cliff Gillette announced today. This will be the only chance for seniors to get their photos in the 1966 yearbook.

Pictures will be scheduled for each graduating senior who receives a card in his campus mail box early in January. He should bring the card with him when the picture is taken.

The old Power House located between Air Conditioning auditorium and the swimming pool again will be the site of senior photo activity. Men are asked to wear white shirts, tie and coat. Women are asked to wear white blouses. Pictures will be taken by Dunlap-Turney Co. photographers who will make photo proofs available the same week to seniors who want to order extra prints.

Graduating seniors who do not receive a card by Jan. 17, for some reason, may be scheduled that week if they report to the old Power House but will have to be verified by the college records office, Gillette said. Seniors who know they will not graduate by June 1966 should not report for pictures.

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### 5 Parliament members visit campus recently

Five dignitaries, all members of Parliament from the Republic of Kenya, visited our campus recently as part of a six-week tour of the United States arranged for them by the Agency for International Development (AID) of the U.S. Department of State.

Primarily concentrating on the agrarian aspect of the campus, the visitors were guided through the agricultural facilities and the farm by Cordner Gibson, assistant dean of Agriculture at Cal Poly.

Members of the touring party are the Honorable Justine Kaptingel Arap Tuvel; Honorable Gerald Nathaniel Kalya, senior senator and deputy leader of government business; the Honorable Japhet Zakaria Kano, a member of the Teacher's Union and the Kenya Central Road Authority, and secretary to the Tana River Methodist Youth; the Honorable Kiljash Omolo Agar, also a member of the Teacher's Union, the Student Christian Movement, and the Federation of Labour and Cooperative Society (farmers); and the Honorable Mohamed Noor Husheini.

During their brief visit to California the dignitaries visited the Cal Poly campus at Pomona and the University of California at Davis.

Purpose of the tour, according

to a Department of State announcement, "is to support the Republic of Kenya's efforts to increase efficiency and economy in the public service."

"The existence of a relatively efficient and responsible government and its administration in Kenya, which will be responsive to its citizens' demands, is basic to the successful fruition of its economic development," the announcement concludes.

### \$80,000 Project to remodel EE Bldg. scheduled

An \$80,000 remodeling project in Engineering East is scheduled to begin shortly before Christmas, according to building program coordinator Douglas Gerard.

The program will involve conversion of several rooms into electronics and electrical laboratories. Plans are also included to change a lecture room into a suite of offices for faculty members.

When remodeling is completed, Engineering East will be devoted entirely to electrical and electronic engineering.

Rooms being converted were not used this quarter so as to avoid having students change classrooms when construction begins.

Bids for construction will be opened in Los Angeles on Nov. 24 and a contractor should be chosen before the business day closes.

"There will naturally be a little inconvenience connected with the project," says Gerard, "but all we can do is ask that everyone be patient."

## El Corral

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Our fabulous book sale will continue the remainder of the quarter. Drastic reductions on hundreds of fine volumes. Save up to 70%. We have an outstanding selection of teachers aids and non-fiction titles. These include literature - biography - poetry - philosophy - psychology humor - science - history - reference - romance - sports - art - travel. Come on in and browse. If you can't find what you want, just ask.

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## EDITORIAL PAGE

### The direct approach in 'Learn-by-doing'

What's the punch behind the Cal Poly's "learn by doing" philosophy?

It's the effective direct educational approach with students actively involved in problem solving. It's the direct education derived from adding the "know-how" to the "know-why."

According to the college catalog, "Requirements of the occupation, rather than of professional graduate schools, determine the educational experiences offered to each student."

This modern world is fast-moving and of a highly competitive nature. The college student who has less of a translation process from student to an individual of effective performance ability in his or her field is on top from the beginning.

Will what the books say work? The Cal Poly student has a chance to find out in school what the limitations and possibilities are. Trial and error should be kept in the schools where mistakes are more readily tolerated than on a responsible job.

The Cal Poly education is a three-dimensional education. Besides seeing and hearing, the student gets the "feel" of his field of study.

Maureen J. Lund  
Editor-in-chief

### Editors' notes

**ON BEING RESPONSIBLE . . .** The Student Affairs Council at its Nov. 9 session had on its agenda a Finance Committee recommendation to allocate \$7,000 for the purchase of two station wagons.

The information available seems to strongly indicate that these two vehicles are needed to insure the safety and reliability of transportation used by student body organizations. Whether or not one favors the purchase of the station wagons, it is significant that the members of SAC, instead of hastily voting, decided to table the matter for two weeks so that representatives could report back to their groups and so that the student body at large could have a chance to make their wishes known. For this action the Student Affairs Council is to be congratulated.

**ON BEING CLARIFIED . . .** As this year's Homecoming queen reigns over the weekend's festivities we can not help but wonder about the one young lady who was dropped from the queen contest because of the status of her sponsors. This unfortunate incident came about because of an unwritten "law" regarding social fraternities.

So that this type of injustice will not occur in the future we recommend that the SAC Elections Committee write into the Homecoming Code a section specifically stating what groups are eligible to sponsor queen candidates.

**ON BEING LAWABIDING . . .** At the Nov. 9 meeting the SAC twice set aside part of the code controlling the conduct of donation drives on campus. As stated in the code, only two drives may be in progress at one time. Because of the SAC action, four drives were permitted to operate at once.

Are the codes actually performing the function for which they are designed? It appears that now they are merely a bother and that setting them aside is a mere formality. If the codes are to exist they should have an active function.

One way of strengthening the donation drives code would be to establish closer relationship between the Student Affairs Council and the ASI office so that publicity and other donation drive funds are not approved before SAC approves the drive.

We also recommend that the chairman of the Donation Drives Committee bend his efforts to having groups operate within the codes instead of thinking up ways to circumvent the codes.

**ON BEING VICTORS . . .** The 7-3 victory of Los Angeles State over the Mustangs must have been a blow to the spirits of the high-flying Diablos. Our varsity football team has suffered much abuse throughout the season. No doubt some of the criticism is a hold-over from last year's 0-10 season and this year's loss to Cal-Western. The near upset of Los Angeles has shown that the team has greatly improved and is deserving of our support and encouragement as it meets Santa Barbara tomorrow. We hope that the Mustangs will repeat their fine showing of two weeks ago and this time be the victors.

Maureen Lund, Editor-in-Chief  
Robert Boyd, Managing Editor

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### Do you have yours?

There has been a complete changeover in the campus post office boxes because of the addition of 2,500 boxes at the beginning of this school year. Many students still have not checked in with the post office to get their new post office box assignments, according to the campus postmistress. It is necessary that all full-time students be registered with the post office.

The campus post office boxes are the only ready means that the college has of sending notices to students, according to Everett Chandler, dean of students. Failure to meet Administrative Appointments can result in a \$2 penalty charge.

### Editor position open

The Editor-in-Chief position for El Mustang is open for the Winter Quarter. The position is open to students in any major.

The letter of application is to be turned in by Dec. 3. It should be directed to Tom Conso, chairman of Board of Publications, and should be turned in to ASI box 21.

### Books at high noon

On Tuesday, Nov. 23, William Alexander, Social Sciences Department, will review a thick book in which he says he has learned something on every page, "Kennedy" by Theodore C. Sorenson.

Selections from the book appeared in LOOK magazine during the summer, and the book has been widely reviewed. The Saturday Review says of it:

To Sorenson, Kennedy was "an extraordinary man, an extraordinary politician, and an extraordinary President," who may well loom even larger in the long perspective of history. He had helped bring about a new era in race relations, in Soviet relations, in space, and in the concept of federal aid for education. He had reached for the moon. . . . "History," writes Sorenson, "will remember John Kennedy for what he started as well as what he completed."

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## Student body buys 2 wagons

Four years ago, Student Affairs Council appointed a special committee to look into the feasibility of purchasing two station wagons for the use of the ASI.

A set of guidelines was completed, approval came from the administration and SAC approved the purchase of the wagons.

Money for the purchase was then spent to make up the deficit incurred by the publications budget.

After three years, bids were accepted from local auto dealers. After measuring the cars' height and width for the athletics, luggage room, etc., the ASI plans to purchase the two which fit the needs of the student body.

The wagons will serve all student organizations on a first come, first serve basis. Those groups that will benefit the student body the most is another consideration.

As it now stands, students are reimbursed for gasoline when they cannot get a state car for school approved trips. The reimbursements are 8 cents a mile, but if the ASI owned the wagons, the student body would get a 4 cent kickback per mile.

## Boos condemned

In reference to David Bigge's letter, I must disagree with the comments concerning booing.

Bigge states, "Since the yell-leader's job is to unify the voices and the feelings of the spectators, in compliments and complaints, it is obvious that organized booing will occur."

First of all, I have never been to a school where cheerleaders encouraged booing, and secondly I am surprised that students at Cal Poly will stand for it. I have always felt that the cheerleaders job was to encourage a positive attitude in the stands and not a negative one. Certainly we do not enjoy watching the referee hand out penalties to our hard fighting team, but are all his decisions wrong when they are against us and right when in our favor? If the cheerleader would watch plays, he'd understand the calls and not blindly boo correct decisions made by the referee.

Organized boos, which represent complaints against the referees, bring discredit to the school and are a number-one sign of poor sportsmanship. Let's accept our team's mistakes, and instead of booing how about a few original cheers to keep up the spirit and drive our team to victory. Few schools need a boo-leader, and Cal Poly definitely needs a better yell-leader. Some good cheers would be refreshing and a welcome replacement for the thoughtless boos and clumsy jokes we have had in the past.

Cheers,  
David Moore

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## Fellowships to be offered for research

A \$1,200 fellowship award for personnel research in the fields of college recruitment and placement was announced today by Eugene A. Rittenhouse, campus placement director.

Persons interested in applying for the fellowship may obtain full

details from Rittenhouse, whose office are located in ADM. 213. The award carries no restrictions on holding other fellowships, assistantships or other employment.

Final date for application is December 2, 1965.




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## Mounts writes paper

Dr. Billy Mounts, head of the health center, recently attended a meeting of the Association of California State College Physicians at Sacramento. Accompanying Mounts to the symposium were Dr. Madge Jacks and Dr. Arthur James.

The association meets twice a year, once in the spring and again in the autumn. Mounts was elected president of the association during last year's spring meeting.

The purpose of the association is to promote better understand-

ing among the physicians serving at various college health centers and to discuss the many problems common to student health.

At the recent symposium Mounts presented a report on infectious mononucleosis based on clinical experience with 250 cases. He drew on histories dating back to 1959 in preparing his paper.

"It is assumed to be caused by a virus," said Mounts in describing the disease that usually affects young adults, "but a representative virus has not yet been isolated. With mononucleosis the patient is more than ill with influenza. The symptoms at the onset of the illness are vague and not unlike those seen in influenza."

"At one time many students contracting the disease had to drop out of college, but in the last five years present treatment has eliminated this necessity to leave school," reported Mounts.

Discussions on mononucleosis formed the major activity of the symposium. Dr. Eugene Rossi of San Francisco State presented a report on his clinical experiences. A paper on "Laboratory Studies" was presented by Dr. Stephen Cowdrey of San Jose and Dr. Paul Hattersley of Sacramento gave a presentation on "Hematologic Diagnosis and its Limitations."

## Press conf. cont.

(Continued from Page 1)

discussed at the press conference. A section of the "Second Revision of Cal Poly's Athletic Policy and Procedure Statement" reads:

"Athletic teams representing the San Luis Obispo campus may compete against Kellogg-Voorhis campus teams in all sports except those specifically prohibited by administrative policy (i.e., football and basketball)."

Andrews said that, "Competition in the body-contact sports especially those with large crowds as spectators, could result in incidents between campuses which would work against the goal of Cal Poly being one college."

Everett Chandler, dean of students, said that the teams did compete in such sports at one time. The competition, he said, became hotter and rougher and bad relations between the two campuses was the result. One clash due to a cancelled game was cited by Chandler as "the straw that broke the camel's back."

## 'Harvey' to be given

"Harvey", a comedy in three acts by Mary Chase, will be presented Nov. 19 and 20 as a part of homecoming activities. The comedy is centered around Elwood P. Dowd, a man whose best friend is a large, white, imaginary rabbit. Harvey, the rabbit, stands over six feet tall and knows what is going to happen in the future. Curtain time on Friday and Saturday night is 8:30 p.m. and tickets will be sold at the door.

## SHAKESPEARE PRESS

The Shakespeare Press, owned by the late Charles L. Palmer (a former newspaperman), was willed to Cal Poly and is at present housed in the Printing Department of the Graphic Arts Building.



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# QUERY



Don Brown, AH major, demonstrates the basics of the "learn-by-doing" philosophy in the feed lots of the cow barn. Brown learns his prospective job by actual on the job learning in the ag units. Agri-

culture is the field in which the "learn-by-doing" philosophy has perhaps its most pronounced success.

## Query looks into college philosophy

"Learn-by-doing," a quotation attributed to the Greek philosopher Aristotle, has become synonymous with the teaching philosophy at this college.

But how well does the "learn-by-doing" philosophy work in practice? How well is it applied? Is it in fact, readily applicable to all fields of instruction carried on within the college?

These and many other questions prompted the editors and staff of El Mustang to investigate and bring forth the following Query on the "learn-by-doing" philosophy.

On this page regular Query reporter Diane Schmidt presents the story of how Cal Poly received the "learn-by-doing" philosophy in the first place and how present-day staff leaders view it.

On page six Ag beat head Jan Olson and Ag reporter Marilyn Ehrler present the views of the faculty of the Ag Division. On page seven Engineering beat head Karen Kinsman and Engineering reporter Dennis Roberts present the comments of the Engineering faculty.

On page eight Monty Odett, Applied Arts Division beat head, presents the views of the Arts faculty. On page 10 cub reporter Suzanne Lewis presents the views of a cross-section of the student community. On page 11 former El Mustang Editor Bud Ross presents the views of the Applied Sciences Division faculty.

This Query is presented to the college community with the hope that it will make the application of their present-day academic lives more understandable.

F.D. Jeans  
Student Advisor

# Newsman sets Poly Philosophy

by Diane Schmidt

The man who was first responsible for creating a polytechnic school at San Luis Obispo was Myron Angel, a graduate of West Point.

Angel came to San Francisco during the Gold Rush. He was penniless, ragged and hungry. A busy man hailed him, saying, "Boy, do you want a job?" Angel replied eagerly that he did. The man offered him \$8 a day to nail shingles on a roof. However, Angel's knowledge was strictly "book knowledge," and the employer was forced to hire another boy to do the job.

It was then that Angel resolved to establish a school which would "teach the hand as well as the head."

Many years later, Angel came to San Luis Obispo as a newspaperman. At this time he began working with local assemblymen to start a vocational polytechnic high school. Before he died, Angel wrote a book about the realization of his early resolution.

After a legislative bill failed four times to establish a polytechnic normal school at San Luis Obispo, Governor Gage signed a bill in 1901 appropriating \$50,000 for the purchase of a site, construction, and furnishing of necessary buildings, and the maintenance for two years of the school. The act took effect Jan. 1, 1902.

On May 26, 1902, 281 acres of land were purchased for \$8,000. The first director was Leroy Anderson, a Cornell graduate who later became the first director of the University of California Extension Service. He and three instructors opened classes for the first time on Oct. 1, 1903, in the unfinished parlor of the dormitory building.

The school opened as a state vocational school and was the pilot school in California which pioneered the establishment and

perfection of vocational education along agricultural and industrial lines.

In 1927, the State Board of Education raised the level of the instruction to that of a junior college. In 1933, it was again changed, this time to a two and three-year technical college. In 1940 the Board of Education authorized the college to grant the Bachelor of Science degree.

In the years between 1931 and 1933, the Chief of the Bureau of Agricultural Education began taking a special interest in the educational system at Cal Poly. He had long been an advocate of professional vocational agriculture and the "learn-by-doing" philosophy. He was Julian A. McPhee, who was to become President of Cal Poly in 1933. He continued as head of the Bureau of Agricultural Education however.

The fifth year for secondary credentials was authorized in 1946. Three years later, six master of arts concentrations were added.

The college's physical plant now includes three separate campuses totaling about 3,807 acres.

The "learn-by-doing" philosophy is not peculiar to the Cal Poly campuses. The idea originated with John Dewey, one of the nation's most well known exponents of the practical approach to education.

Robert E. Kennedy, vice president of the college, feels that there is no static educational program. "We may return full circle to a situation that existed in the fourth century B.C. The system was designed in order to educate the free man. Since the free man didn't work, he didn't have to learn how to work."

Kennedy feels that society needs a blend of professional education designed to create careers. "We also have an obligation to prepare people for citizenship with motivations toward an interest in art, music,

for an interest in art, music, etc."

"Most people don't realize that it takes a lifetime to acquire a liberal education. We know we can equip a man to earn a living. So we do this, with the assumption that the taste of liberal arts we give him will develop his appetite in later years to 'visit this art gallery' or 'read that book' or 'attend this opera'."

Finally, Kennedy reminded, "Ours is not a practice makes perfect philosophy." Instructors here have two challenges that other state college instructors do not. They must motivate the student to want to know the theory behind certain processes, and they must help the student realize that there are techniques of doing things that must be demonstrated, that the student must repeat.

Therefore, instructors here must watch out for repetitive exercises that may force out theory. Cal Poly's philosophy is not entirely "learn-by-doing." Some theory is needed to aid in the comprehension of every facet of education.

The "upside-down" phrase which applies to the educational system here was coined by a now forgotten letter to Cal Poly who was doing an accreditation report about the system around the time of World War II.

We asked Howard West, assistant to the college president, if the term "applied" in Applied Arts and Applied Sciences was indicative of the "learn-by-doing" philosophy.

He said, "Previously, these two divisions were united. About four or five years ago, because of enrollment and growth within the divisions, it was split."

When we pursued this line, inquiring why other colleges do not call their divisions "applied," Mr. West replied, "The differences lie in the basic approach. Here, we attempt to apply principles and theories to work, rather than teaching theories."

Another question asked West dealt with the changes which have developed since the college began, and what changes are foreseeable in the future. He answered, "We are always attempting to have a philosophy of keeping curriculum up to date.

The types and numbers of classes have constantly been changing but the philosophy and basic educational system have not. We have expanded and refined since our beginning, and this is what we will continue to do."



Jim Shepherd, Kim Schneider (floor) and Rigo Vierra (table) are "learning-by-doing" as they work on an air conditioned lab project.



# QUERY

## Aggies: 'Learn-by-doing's' best example

by Jan Olson and  
Marilyn Ehrler

Practicality and applicability are the stress words in the "learn-by-doing" philosophy of the Agriculture Division.

Proof of the pudding seems to lie in the great demand for Poly graduates. Many businesses are very impressed with the results of our unique system of education. One of the ornamental hor-

ticulture instructors, T. Amato, stated that there are four to six job offers for every OH graduate.

"The biggest problem we have is getting enough students graduated to fill job offers filed with us," stated L. Sankoff, poultry instructor.

A. Dean, a soil science teacher, commented that the Poly student is a good person and student. "He is not afraid to get in and really work at something. He is wholesome and enjoys the work."

"A lab is like a storage room; the instructor must fill it up so the student may gain full benefit," commented L. Lamouria, dept. head of Agriculture Engineering. "If an instructor does not fill the lab with equipment before the lab period, it will be like a vast desert to the students. They

will not know what to do in there."

The main objective of the various agricultural departments, as well as other departments, is to get a well-balanced program of theory and practice. The balance has been fairly well established in most of the departments. Class lectures are designed to explain the modern methods and techniques; the lab periods follow closely to the lectures.

A good example of a modern technique put into use by the students, is the project of processing data brought in from a farm in the area and computing it on the electrical data processing machine. The results are compiled in Berkeley, Calif. and then returned to the Farm Management department.

Being able to see "what makes it tick" has been a great boost in student motivation. Because a student is theoretically required to state his major when entering Poly, he is subjected to the actual workings of that field in which

he is interested, as intended by the "learn-by-doing" philosophy.

Animal husbandry instructor R. Harris cited a good example of motivation. A student with foresight came in to talk over his future senior project before he was eligible to take the course. He was not required to take the many higher mathematics courses or statistics that would be needed to help him work out his senior project, but his desire to complete the research he had started compelled him to take these extra courses.

The student learns all the various steps through personal experience. He is able to err while still a learning student and profit from his errors.

A big problem existing, as intimated previously, is the necessity to keep up with the modern methods, techniques, research and education. A new method is not easily proven superior, but when business accepts it, it is time the school adapts it into the program. Not only should the instructors feel it with their responsibility to keep up with the latest information in their field, but the administration should keep the school supplied with modern machines, tools and equipment, and with modern ideas and theories as well.

If students are to step out into the modern world, it is the school's responsibility to prepare him for the step. The graduate may not be an expert in everything, but he will have the background which will enable him to be prepared to meet the challenges and demands within and beyond his occupation.



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# Engineers: products from ideas

by Karen Kinnman  
Dennis Roberts

"Learning-by-doing" is a basic part of engineering, in the Engineering Division, according to Dean Harold Hayes.

"Our theory, which is typical of a life situation, is to take a fundamental principle and make a useful product out of it. Our upsidedown learning principle is to produce from a specific example to general applications. This way the student learns to generalize and apply his theories to many different situations and areas." Hayes feels that the "learn-by-doing" philosophy has a lot to do with the fact that 40 per cent of California engineering students are enrolled in Cal Poly San Luis and Cal Poly Pomona.

Before coming to Cal Poly, Hayes recalls a significant incident. "Teaching a class of seniors in mechanical engineering I asked the students to draw a diagram of a piston. Several had no idea what it looked like. It was then and there, I decided that Poly's philosophy of 'learn-by-doing' was the only effective way of teaching engineering."

"This philosophy does have one flaw," Hayes admits. "It appears when a student comes into our division not knowing exactly what he wants to do. It is a relatively easy thing to make an inter-department change within the first year, though. Giving him a taste of the technical part in the first quarter, we can help the student decide what field he wants to get into, and get him over there much more quickly than a theoretical-type school could ever hope to."

Rodney Keif, instructor in the Air Conditioning and Refrigeration Engineering Division, answered, "A matter of details is the only difference," when asked how his department differed from others in the application of "learn-by-doing" principles.

"We make a conscious effort to constantly bridge the gap between theory and reality," Keif observed.

As George Hasslein, head of the Architectural Engineering Department, sees it, there is no way of describing the "learn-by-doing" philosophy.

As Hasslein explains the phil-

osophy, "It is more of a feeling and a spirit than a specific technique."

The head of the Aeronautical Engineering Department, Charles Davis, feels that the best way to express the effectiveness of the "learn-by-doing" philosophy in his department is by specific example.

According to Davis, two Aero majors, Rod Philbrick and Del Hoffman, built a small plane last year as their senior project. They entered it in the National Air Races at Reno, Nevada, in the under-180 cubic inch division.

"I'm not sure what they planned," said Davis, "but just the fact that they entered the race with their project was quite a thing. They gained invaluable experience that they will carry into industry with them."

"Poly stresses a good deal more lab experience than other schools." This is what makes it significant in its philosophy, according to Richard Wiley, head of the Welding and Metallurgi-



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cal Engineering Department.

"Our whole operation in this department is geared to industrial activities. Most of our instructors have come directly from industry. We try to give the student the realistic, down to earth hardware approach to prepare him for actual industry," explained Wiley.

The main pro "learn-by-doing" argument, expressed by various members of this 43-student department was "You can read all about machinery in books, but they don't tell you all the little idiosyncrasies that each machine has and what to do about them. That you have to 'learn-by-doing'."

Fred H. Steuck, head of the Electronic Engineering Depart-

ment, believes that Cal Poly is something of a pioneer with its "learn-by-doing" philosophy.

"Some of the things we've been doing for years are just now catching on at other schools. The labs and senior project are two examples."

"Here in Electronic Engineering, we have from three to six hours of labs for each student each quarter," says Steuck. During these lab hours the student gains practical experience to supplement his studies in the lecture classes.

A unique view of the "learn-by-doing" philosophy comes from Fred W. Bowden, who is head of the Electrical Engineering Department. "Learn-by-doing" isn't enough. Coupled with 'learn-

by-doing' should be 'learn-by-thinking.'"

The whole department reflects this extension of the "learn-by-doing" philosophy. Even the regular classes are more than lectures.

"We have lecture-discussion classes where the student comes to class prepared to ask and be asked questions."

"Students report on every project they do and we try to make them analyze the results critically."

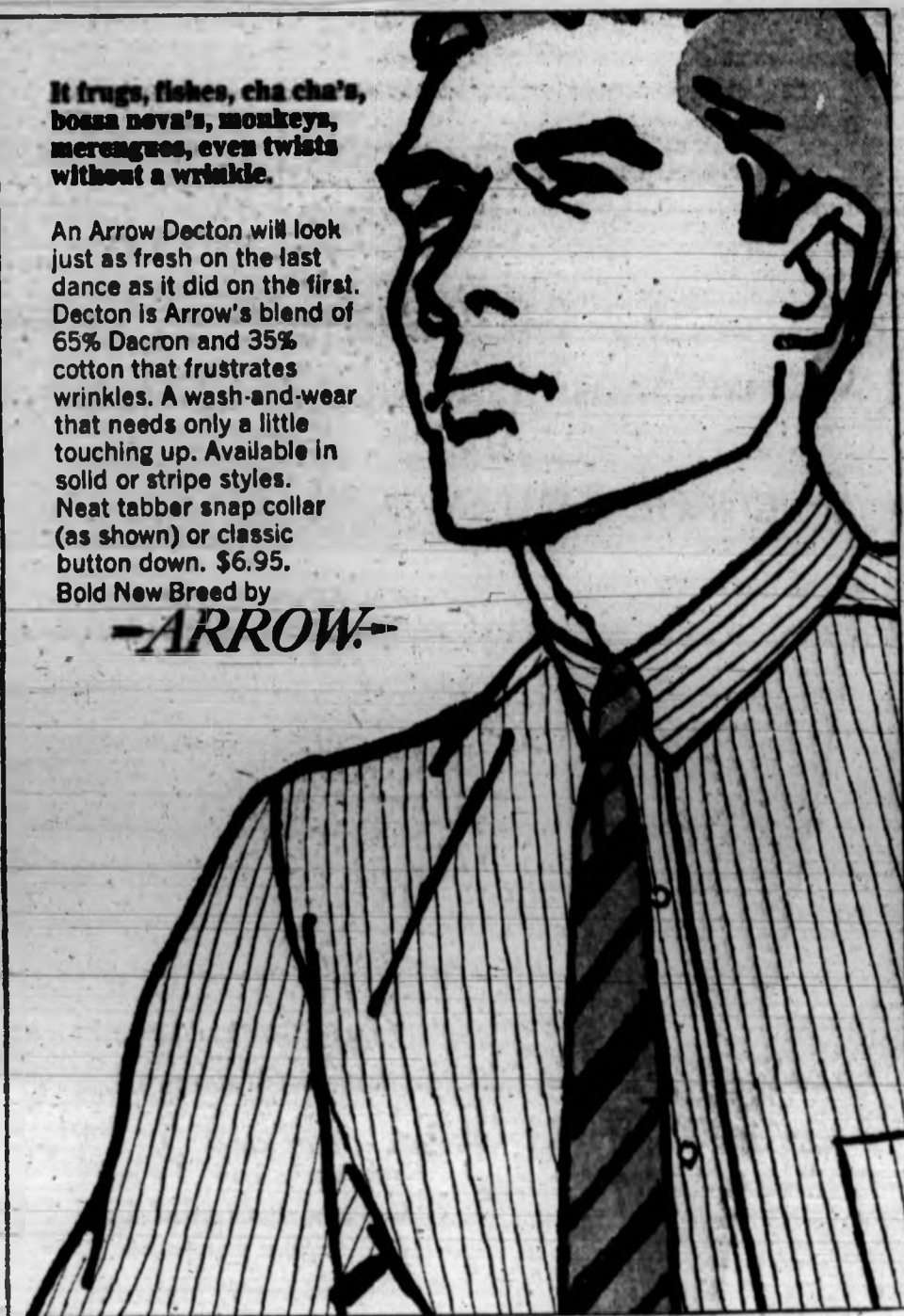
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# QUERY

## Arts: extensive differences in application

By Monty Odett

In the Applied Arts Division, it is apparent that there can be found a wide range of diversity in the actual application of the "learn-by-doing" philosophy.

Carl C. Cummins, Applied Arts dean, sees "learn-by-doing" as a comparative matter.

Cummins said, "It is like the fellow who was asked how his wife is and replied, 'compared to what.' You can't compare printing to English in terms of effectiveness of our philosophical application. You must compare our printing department to that of another college," Cummins stated.

"Here at Cal Poly," continues Dean Cummins, "the emphasis is on the technical fields where the

college teaching methods are easily recognized. When you get further away from the Applied fields, such as Business and English, it is more difficult to apply our philosophy. However, 'learn-by-doing' is incorporated into each and every department."

A.M. "Bert" Fellows, head of the Printing Engineering and Management Department, pointed out that "we (Cal Poly) have the only school in the United States in which the student body financially supports, writes and prints the college newspaper."

"If the college ever gives up this philosophy," Fellows continued, "we won't have anyone here. We have a down-to-earth program that appeals to parents

and students because our staff is dedicated and interested in the students."

Department head Harold Davidson points out, "Here at Poly we have something unique in the Music Dept. We have student directors that literally take over the Glee Club. They arrange tryouts for new directors, they select their own members for Glee Club and they directly influence the grading."

Of course, the practical application is found everywhere, in the Glee Club, the Sextet, the Dance Band, the Symphony Orchestra, the Barber Shop Quartet, just to name a few of the groups that are formed within the Music Dept.

One has only to attend a Home Concert put on by the Poly Music Dept. to see if 'learning-by-doing' is really achieving its goal.

The major function of the Department of Physical Education is to provide required and elective courses in physical education and health to meet the general requirements of the students. To supplement this general education, the department administers an extensive intramural sports program for all college students. A second function of the department is to prepare both men and

women as secondary teachers in the fields of physical education, health, safety education, and driver training.

The student teachers get practical experience in sports direction by taking over many of the classes within the department. The students learn the proper techniques of each sport and the importance of physical education, truly "learn-by-doing".

Within the Technical Journalism department Robert V. McKnight, department head, feels that the "learn-by-doing" philosophy "is the key to success in our world. Our students get practical experience in writing and the workings of the newspaper while a member of the El Mustang newspaper staff. They also learn while they are doing in photo bureau and our advertising classes, just to name a few."

As the journalists and printers work together to put out the college paper the feeling of 'realness' is always there. The practical experience achieved parallels that of the business world.

Looking at the Technical Arts Department, we find the curricula prepares graduates for employment in a broad range of professional positions in industrial management, industrial production, industrial marketing or industrial arts.

Department Head J.M. McRobbie explains that "the labs are

project-centered, where the students get practical experience on design planning for industrial processes and the developmental aspects of various problems. You can't get this out of books."

"We are on the ground floor," relates McRobbie, "and are always looking for a way of making our curricula even more practical. 'Learn-by-doing' is the only way to teach, and everyone on our staff has had practical experience."

The philosophy of "learn-by-doing" has been expanded upon within the Home Economics Department of our college so that the girls not only get the practical experiences but also are taught the 'why' in what they learn, and what they do.

Dr. Marie Pfeiffer, department head, believes in the "learn-by-doing" system but more than that, she wants to install in the girls the reason why they are doing it, and what it is that makes it happen. When they bake a biscuit, for instance, she wants them to realize why it rises. When they prepare a meal, she wants them to know why they cook foods different ways and what makes for a balanced meal.

"Humanities occupy the very end of the spectrum within the Applied Arts Division and it is not an easy task to apply the 'learn-by-doing' philosophy," felt William Pederson, English and Speech (Continued on Page 9)



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# Applied Arts

(Continued from Page 8)

Department head.

"Actually, everything we do is 'learning-by-doing,' relates Pederson. "This type of educational approach has tremendous merit. The students may not actually be aware they are really a part of the campus philosophy," he continued, "but they are. We are just not as practical as in some of the technical courses at Poly. I am pleased that there is so much interest in English. People just don't think of aesthetics and the humanities as 'learning-by-doing.'"

"In business we have many examples of 'learning-by-doing,' though it is harder to apply the concept. In public speaking courses,

labs, business report writing and human relations courses the students are given examples that they would encounter on the job," says Department Head Owen Servatius.

The Education Department staff, under the guidance of department head Walter P. Schroeder, not only teaches professional courses but advises fifth-year and graduate students who are working toward initial and advanced

credentials. The department also offers a Master's Degree in Education and professional courses in elementary school and secondary school teaching, school supervision and service courses in art audio-visual and psychology,

to name but a few.

Dean Cummins states, "Cal Poly attracts the students because of our 'learn-by-doing' philosophy. We recruit the best instructors who can carry out this mode of instruction, and we are con-

stantly trying to make improvements, to improvise and refine, to find a better way to get the job done."

"Doing, in connection with learning, is valuable. More than that, it is vital," says Cummins.

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# QUERY

## Students see need for improvements

by Suzanne Lewis

Perhaps, the strongest evidence of the Cal Poly "Learn-by-Doing" philosophy is apparent in the Agriculture Division.

Junior Fruit Production major Doug Parks, is a confirmed advocate of "learn-by-doing" in his field. Since his department has the facilities for actual learning in the orchard and vineyard, he finds that this manner of teach-

ing is the best way to establish a firm foundation in fruit production. This department also has a particular program called Job Instructional Training, which allows the student to thoroughly instruct a class by presenting a problem and helping the student to solve it under lab circumstances. Parks believes that with such attributes as this in the department, being a learn-by-doing agriculture major from Cal Poly

will be an asset after graduation.

An excellent example of "learn-by-doing" in his major is Henry Struckman, a sophomore Dairy Husbandry student who lives at the dairy unit and is among those students who are responsible for its operation. Struckman believes the individual student will "remember more from his labs when he does it himself." In this manner, Dairy Husbandry emphasizes the Cal Poly philosophy by the opportunity its majors have to raise a specified number of cows that will pay for part of all of the year's expenses at school. Struckman's contribution from "learn-by-doing" was demonstrated recently at the Cow Palace, where he achieved five firsts in his Brown Swiss division, one of which won Grand Champion.

Since mechanization is becoming an even more vital factor in our nation's agriculture, the opportunities in this field have naturally expanded. Although Jim Hale, a junior Mechanized Agriculture student, eventually plans

to go into cattle production, he has chosen this major because of his interest in machinery and the varied opportunities it presents. From Washington, he selected Cal Poly because of its reputation in agriculture, stemming largely from its emphasis on experience. Jim approves of the technique of teaching at Cal Poly because he is "now receiving practical experience" in the tools of his later trade.

In the area of Applied Arts, the majors are more diversified, and so are their various opinions of the Cal Poly philosophy in their particular majors.

As far as Business majors are concerned, they seem to believe that the department cannot really apply practical experience to any great extent. Senior Pat Beasley feels that the current curriculum offers a sufficient number of technical courses, and that some of the upper division courses that offer analysis of company problems, also contribute to the "learn-by-doing" code of Cal Poly. Currently working on his senior project, he is "solving a problem that may a-

rise after graduation while working in personnel management." However, senior Bud Ellison believes that there is not yet enough "learn-by-doing," and it could be remedied by a curriculum that offers more practice with the basic business machines, such as adding and calculating equipment. But, he does feel that the department offers a "good basic background in business" with excellent placement opportunities after graduation.

Also in the Applied Arts Division, the Printing Department offers varying opinions. Bill Gilbeaut, a sophomore, calls practical experience in printing "the only way," since there are so many factors, such as type and ink, that the printer will have to know in order to be successful in his later profession. "Less lab, more theory," is sophomore Jim Bennis's attitude towards printing. He believes that "certain aspects of the curriculum don't warrant the amount of lab time for the type of position later to be held."

Fifth-year Technical Arts major, Eric Frost, states that "all we do is 'learn-by-doing.'" With a major that stresses wood, metal, plastics, and auto classes, "it's the only way to learn, especially if you plan to teach."

However in the English Department, it seems that the general attitude conveys the feeling that there isn't very much practical experience to be obtained. Senior Susan Porter finds that there are few ways in which to apply Cal Poly's philosophy, except by way of compositions in and out of the class, and by student teaching.

The Applied Sciences Division offers varying views towards practical experience in their particular majors.

In the area of Social Science, sophomore Doug Milburn notes that there is no practical method of acquiring experience, since the major largely involves theory. From his viewpoint, the only way to confirm understanding in Social Science is by studying and testing. But, Milburn also believes that the senior project and student teaching are two concrete methods of acquiring practical experience in Social Science.

Perhaps, Bill Awbrey, sophomore Industrial Engineering, sums it up for engineering majors, when he says that what "you're doing now, you will be doing after graduation."

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## QUERY

# Sciences: part aid, part problem

By Bud Ross

"The Biological Science courses are traditionally 'learn-by-doing,'" said Glen Noble, Biological Science Department head. "It is a philosophy not limited to Cal Poly alone but in one all colleges and universities must implement. After all, you can't very effectively teach anatomy out of a textbook without actually doing some dissecting."

Noble went on to say that some straight lecture courses were given, but that the ideal learning situation is for labs to accompany lectures. Noble was asked if the college's philosophy, with respect to "learn-by-doing," really affected a department already oriented in this direction.

Noble answered that the department was in fact aided by the college's encouragement of laboratory learning, since the department did not have to justify its position on labs as it might have to do in a liberal arts college.

On the other end of the Applied Science spectrum came a somewhat different idea of "learn-by-doing" from Eugene Smith, Social Science Department head.

Smith stated that although there were some very definite "learn-by-doing" projects within the Social Science department occasionally, it was very hard for the department to follow a "learn-by-doing" philosophy in the same sense of the term as it may apply in the engineering department. The reason, Smith said, is the very nature of the subject matter in Social Sciences.

Smith made the point that the majority of social science majors expect to go into teaching and that student teaching is a definite "learn-by-doing" process. Smith made the reservation, however, that student teaching did not come under the Social Science Department, but under the education department. He said the So-

cial Science Department's primary objective as defined by the school was to train secondary teachers in the social sciences.

Senior projects, according to Smith, require a type of library research rather than a physical project.

Dr. Milo Whitson, head of the Mathematics Department, made the following statement regarding "learn-by-doing" in mathematics. "Frequently application gives rise to the need for a particular mathematical concept. This concept is then developed into a theory and returned for further application. Aside from this pure mathematical, theory the remainder of the mathematician's time is spent in applying the theory."

When asked if there was a conflict between theory and practical application, Whitson replied that theory and application went hand in hand and that neither could exist separately.

He was asked how the "learn-by-doing" philosophy was implemented in the Math Department

and his reply was that in preparing students to go into teaching, the department employs supervised activities where actual techniques in teacher training, statistical analysis, and computer programming, are learned.

When asked if Cal Poly was

unique in its philosophy, Whitson said it was the amount of emphasis with regard to the type of math taught rather than the method. He explained that this college probably teaches more applied math than many institutions and less pure math theory than

most institutions.

"You must remember that we are still primarily a service department. We believe in the applied approach in teaching math."

"We, as educators, try to bridge the gap between the theory and its application in other fields."

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President Julian A. McPhee at a barbecue as chef (upper left), with Leopold E. Wrasse, donator of scholarship funds (upper middle), as he first came to Poly (upper right), and mortising the class of '48's plaque in front of Crandall Gym (directly above).



Early Photo of President and Mrs. McPhee with their six daughters. McPhee joked that only after his six daughters were married would he allow co-eds on campus. In 1956 the first co-eds appeared on campus—after all six daughters were married (upper). During the late 1930's, the conventioners at Cal Poly were housed in these tents. Here McPhee visits a group of PPA conventioners (lower).

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## Revolutionary house underway on campus

Six architectural students are currently engaged in a project that may help to revolutionize housing in Southern California.

Plans to build a bridge house to occupy a supposedly impossible site in Poly Canyon are well under way.

Working under the direction and advice of Craig Ellwood, architectural authority on building homes on inaccessible sites, are six architectural engineering seniors: Robert Garlow, Lloyd Suhlro, James January, Tom Wigglin, Louie Hornmeyer, and Ray Hilkin.

The original idea of a bridge house was developed by Ellwood as a solution to the utilization of scarce and high-cost beach-front land in Southern California.

The basic concept of the bridge house is to span a valley or a canyon with two flat trusses which support the entire structure and become the outer walls. The trusses are exposed steel, and the top and bottom chords serve as the finished basis for the floor and roof. The area between the web members is glass.

As their senior project, the six students have designed their own version of Ellwood's basic idea. Their house, that will span a crevice in Poly Canyon, will be 24' by 48'. As Jim January put it, "It's going to be just like a bridge with a house on it."

The participating seniors have divided themselves into two groups—the planning and the working. "We have been pretty lucky in securing our needed materials," the boys commented. "Kaiser Steel donated the steel for the framework. Now all we need is a supply of concrete."

This is the first quarter these students have been working on the project. They hope to have it

completed, as far as they intend to complete it, by April 17, 1966. Plans have it for them to design and build the house as far as the framework, leaving the rest for possibly a future senior project.

Ellwood, who has won one of the highest honors in architecture, the first prize at the International Exhibition in Sao Paulo, Brazil, has spent many hours on this campus helping the students with this particular project. He has become interested in the responsibilities and importance of education and has given his time to a wide program of teaching and lecturing.

What is the purpose of a bridge house on the Poly campus? When it is finally completed, it will be an impressive place in which a visiting architect can stay and enjoy the benefits of Cal Poly's Philosophy of "learn-by-doing."

## Awards presented to fall sportsmen

Julian A. McPhee, president of the college, will be the guest speaker at the first semi-annual Fall Sports Award Banquet to be held at 7 p.m., Nov. 22, at the student dining hall.

Awards will be presented to members of the varsity football, cross-country and water polo teams. The E.C. Loomis Award and the Clarence Brown Award will be presented along with awards for the outstanding defensive lineman, defensive back, offensive lineman, offensive back, and for the best scholastic achievement above a 3.0 GPA.

The banquet is open to all interested students. Arrangements can be made at the dining hall.

### \$10,000 GRANT

A grant of \$10,000 from the National Science Foundation to Cal Poly was not received until the end of the last academic year.

## Auto wreck kills student

Thomas Flower, a senior mechanical engineering student, was killed in an automobile accident recently.

According to Everett Chandler, dean of students, the accident occurred in the Foothill-Los Osos Road area. Flower was apparently thrown out of the car. No exact details are available because he was alone at the time of the accident. The skid marks at the site measured 1000 feet so the

misadventure was probably the result of high speed driving.

Flower lived in Fremont and his home of record is listed as South Gate, Calif.

### BUSY FOUNDATION

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A study of concentration is shown by some of the members of the Cal Poly water polo team as they prepare for the state college tourney taking place at Cal Poly, Pomona today and tomorrow. Long Beach State College is favored in the tourney.

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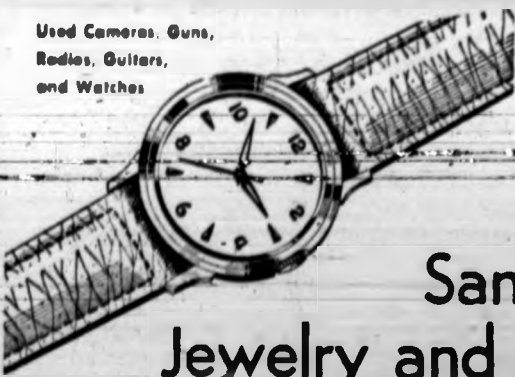
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## Gridder drinks Metracal to play good football

by John Shaw

"In order for me to gain weight so I could play football here, I drank about six cans of Metracal a day, and I lifted weights."

So said senior flanker-back Bruce McPherson.

The 5-10, 165 lb. Journalism major from Santa Cruz, attended the University of Oregon for his first year of college.

"I didn't play ball up there because I wasn't sure I could make it. There were too many guys who went to school for the sole purpose of playing football. Besides, I was too light, and I wanted to concentrate on grades. I wish now I would have at least

tried out for the team," McPherson added.

McPherson transferred to Cal Poly in his sophomore year. He had a desire to play varsity ball, but CCAA rules pertaining to transfer students stated that he had to play on the 'junior varsity' squad.

In his first year he was a running back, but soon moved up the following season as a defensive corner-back on the varsity squad. This year he is a flanker-back for coach Hurden's 'green machine.'

"In the first part of my high school years, baseball was my favorite sport, but that was soon changed. My older brother played football, and he talked me into going out for the light-weight team at our school. Ever since then it has been football all the way," relates McPherson.

Bruce continued to play baseball, but it was not as important to him as football.

He wanted to try out for the horsehide team his first year at Poly, but decided against it.

Bruce reflected his opinion on school athletic spirit, stating, "When a team is winning they have all kinds of support, when they begin to lose, the armchair quarterbacks begin to take over."

He continued, "This team can win the league next year if they get some depth in the line, and get a few breaks."

Bruce feels that the root of the team's problem is the lack of self confidence.

"If we get our attitude up," says Bruce, the school is going to see a brand new team. The potential is there, all that needs to be added is that extra spark of confidence."

According to McPherson the team is extremely close, and they spend much of their time together off of the field. Before the game an informal meeting of the players is held to hash over some of the ideas for the upcoming game.

Bruce McPherson will be playing his last game for the Mustangs tomorrow against the University of California at Santa Barbara Gauchos.

"I have enjoyed playing for this team, and it has meant a great deal to me over the past few years. I expect to see great things from the Mustangs in the future. It will take awhile for them to get rolling, but when they do, watch out."

## Unity sought by divisional council

"Our primary goal this year will be to achieve unity among the several departments that make up the Applied Arts Division, forming a closely-knit organization."

This, according to Applied Arts Council Chairman Dwight Perry, is one of several goals of the Council.

While striving for division unity throughout the 1965-66 academic year the Council will also exert equal energy in an effort to achieve better representation from the Student Affairs Council. Perry expressed optimism that "SAC will grow stronger in regards to the Applied Arts Division."

Eugene O'Conner is advisor for the Council this year with Perry as chairman. The other officers include: Coralie Silvey, vice-president; John Theilan, and Phillip Grango, SAC representatives; and Carolyn Drake, secretary-treasurer.

### CAL POLY STUDENTS

This Fall quarter brought an enrollment of 6,904 students at Cal Poly. Eighty-eight per cent came from California, including 17.3 per cent from Los Angeles County and 13.5 per cent from San Luis Obispo County.

## Trukey shoot this weekend

The Cal Poly Rifle and Pistol Club in co-ordination with the ROTC Marksmanship Unit will sponsor a turkey shoot to be held this Homecoming at the rifle range at the air strip.

The contest will be divided into four classifications of men students, women students, ROTC members, and the general public. Two turkey dinners will be awarded to each classification.

Weapons will be .22 caliber rifles and will be supplied by the club alone with all ammunition. An entree fee of 50 cents will be charged.

Firing times will be, 10 to 5 p.m., Friday, 9-12 noon and 7 to 10 p.m. Saturday and 12 noon to 10 p.m. on Sunday.

## Jack Wool chosen 'player of week'

Jack Wool, quarterback and defensive halfback, has been named "Player of the Week" after his outstanding play in Cal Poly's 7-3 loss to Cal. State at Los Angeles last Saturday night.

Against the Diablos, Wool made eight unassisted tackles and two assists on defensive, while he led the Mustang offense and kept them in contention during the contest.

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# Mustangs face UCSB Gauchos before Homecoming crowd; drop fifth straight game to Santa Clara, 6-2

Cal Poly's Mustangs will close out the local football schedule tomorrow afternoon, when they clash head-on with the UCSB Gauchos at Mustang Stadium.

Kickoff is slated for 1:30 p.m., with the visiting Gauchos a slight favorite to whip the locals. This game is extremely important to the Gauchos, because they have an outside chance of being invited to play in the Camellia Bowl in Sacramento on Dec. 11. However, it appears Cal. State at Los Angeles has the inside track, after beating Long Beach, 27-21, last Saturday night.

## Grapplers set for schedule

The Poly wrestling squad is preparing for its opening match with the University of California, Berkeley, on Nov. 23, in the Mens Gym.

This year's team shows a lot of potential but is dimmed by the lack of experience. There is, however, more depth and balance than last year's squad.

Injuries and academic deficiencies have already hurt the squad as three men are presently ineligible. All three are expected or ready at the beginning of the Winter Quarter.

The tentative starting line-up for the team is; at 115 pounds, Mike Remer or Quinn Morgan, at 123 John Garcia, at 130 Dennis Cowell, at 137 Mike Ruiz or Jesse Flores, at 145 Tom Miles, at 152 Dennis Downing, at 160 John Miller, at 167 Terry Wiggleworth, at 177 Dean Hilger, at 191 Tom Kline, and at the heavy weight class, either Joe Faria or Joe Garrett.

Members of the team looking especially good at this time are Remer, Garcia, Cowell, Flores, Miller, and Faria.

The feature match in the first meet with U.C. will find Poly's Mike Ruiz, two-time Junior College Champion, facing Alen Siegar of the Golden Bears who placed fifth in last years National Championship. Both are wrestling in the 137 weight class so the match promises to be real exciting and the hi-light of the meet.

The Mustangs' seasonal mark is 2-7, while UCSB sports a respectable 7-1 record, winning last week over Hawaii, 3-0.

Score by Quarters:	
Cal Poly	0 0 0 2—2
Santa Clara	0 0 6 0—6

Game Statistics	
	CP SC
first downs rushing	3 4
first down passing	0 2
first downs by penalty	1 1
first downs total	5 6
net yards rushing	46 39
net yards passing	4 41
total offense	49 80
total yards penalized	15 15

The Mustangs didn't have too much luck as they bowed to the Broncos of Santa Clara last Saturday night, 6-2, in the driving rain in the northern city.

Both teams were unable to move the pigskin, because of the poor condition of the playing field. The middle of the field was a sea of mud.

Cal Poly had only 4 first downs to Santa Clara's 3 during the first half of action, due to poor footing. The big difference during the first half and the rest of the ball game, was the Mustangs' inability to complete a pass. Walt Raymond finally completed one late in the fourth quarter.

The Broncos tallied their only

score of the game in second quarter after Larry McCurry was thrown for a loss after faking a fourth down punt.

On a second and ten play from the Mustang 11, Bronco signal-caller Bob Calcagno fumbled 11 yards for the score. The PAT was no good, as the pass from center was too high to give Santa Clara a 6-0 lead.

During the early going of the fourth stanza, the Mustangs had the Broncos deep in their own territory.

Trying to move the ball away from the end zone, the Broncos stuck to the ground. But on a third down punting play, the snap from center went array, and Cal Poly recovered on the 4. However, on the first play from scrimmage, Walt Raymond fumbled the ball back to the Broncos on their own four.

The Broncos were unable to move the ball and rather than chance another bad pass from center on the fourth down punting situation, the Bronco center deliberately snapped the ball out of the end zone for a Mustang safety. As it turned out, the strat-

egy paid off, as the Mustangs never threatened after that point.

Statistically speaking, Cal Poly was shot down again, being outdistanced in the total offense dept., 80-49, but generally, the game statistics were very indicative of the adverse playing conditions, that menaced both teams.

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Lynn Johnson (center) will reign over the 1965 Homecoming festivities. The Queen's court of four from bottom left clockwise is Patty

Hove, Helen Carter, Vikki Randall and Sharon Hartigan.

## Homecoming Schedule

FRIDAY — Nov. 19

7:00 P. M. Bonfire ..... Grand Avenue Parking Lot  
8:00 P. M. Dance ..... Crandall Gymnasium  
Afternoon and Evening ..... Float Construction

SATURDAY — Nov. 20

**MORNING**  
8:00 Noon Alumni Registration ..... Lobby New Adm. Bldg.  
8:00 Noon Continental Breakfast ..... Rm. 305 Adm. Bldg.  
8:30 Horse Show ..... Collett Arena  
Cutting and Reining Club  
9:30 Noon Open House ..... All Departments  
10:00 Parade ..... Downtown  
"Reflections of a President" theme  
President Julian A. McPhee—Grand Marshall  
11:45 Luncheon ..... Staff Dining Room  
Honoring "Alumnus of the Year"  
Verner A. Mize—EE '52

**AFTERNOON**

1:30 Football Game ..... Stadium  
Cal Poly Mustangs vs. U. C. Santa Barbara

**EVENING**

5:00 Social Hour ..... Elks' Club  
6:00 "Reflections of a President" Dinner ..... Elks Club  
A Bing Bloom Choice Barbecued Beef Extravaganza  
9:00 Coronation Ball ..... Men's Gymnasium  
10:30 Crowning of Homecoming Queen

SUNDAY — Nov. 21

8:30 "Old Timer's Breakfast" ..... Staff Dining Room

## Twenty-one floats compete in parade

Twenty-one floats have been entered in the Homecoming Parade slated for Nov. 20. Entries will compete for seven awards including the Alumni Trophy and the Rally Committee Trophy. Arrangements for the event are being conducted by Dale Jackson, float judging chairman.

The floats will be judged at the construction site for depiction of theme, originality, workmanship, topic and decorations. Later the floats will be lined up at the entrance of Grand Avenue and judged for total presentation including their appearance, under-way, animation and music.

The Poly Penguins will escort the floats to the Safeway parking lot on Marsh Street for the final assembling of all parade participants.

The reviewing stand will be

located in front of the courthouse and will include such notables as President Julian McPhee, Alumnus of the Year, Verner A. Mize, Vice President and Mrs. Robert Kennedy, Dean and Mrs. Andrews, Dean and Mrs. McCormick (from the Pomona campus), ASI presidents from both campuses, the queen and her court, and the four float judges.

The winning entries will be identified by banners displayed on the front of the floats. They will also be parked in the vicinity of the football field for closer inspection.

KEITH, LEITH, NEATH and MEATH are all names of places in the British Isles. Keith and Leith are in Scotland, Neath is in Wales and Meath is a country in Eire. They're real places

## Uncle Sam sends out the call

by Michael O'Connor

There seems to be a general concern about the draft among Cal Poly students according to the Dean of Students, Everett M. Chandler. "The amount of students coming in to see me concerning draft standings has increased ten-fold," he stated.

This concern can also be seen in the fact that with 2500 SSS-109 student verification forms, the registration office ran out and still needed more.

More men than ever will be made eligible for the draft this year due to changes in the Defense Department's standards and in California's requirements. So far these changes have directly affected only five Cal Poly men who have dropped out of school this quarter because of military reasons but this is only a slight indication of what is to come.

According to Col. Kenneth H. Leitch, head of the California State Selective Service system, as many as 128,000 of the 158,000 college students now holding 2-S student deferments may be reclassified 1-A and made eligible for the draft by next June.

Currently, only single men between 19 and 28 are being drafted but their ranks are becoming so depleted that childless married men will be drafted in December to fill the 4,727 California quota.

"The only major pool of single men remaining is the group holding student deferments," said Col. Leitch.

Students who now hold 2-S student deferments will keep them until the end of the academic year but starting in June, 2-S deferments will be granted only to those students taking a sufficient number of study hours and sufficient units to complete a four year program in four years.

"Although the college states that a full-time student is one taking 12 units, students are advised to take not less than 15 units a quarter if they are subject to the draft," stated Dean Chandler.

Col. Leitch said, "There is a possibility that manpower requirements will be so great that student deferments may be made only on the basis of academic excellence."

Graduate students are especially vulnerable to the draft. Ac-

cording to an official in the office of special services at UCLA, several draft boards in Los Angeles County have already reclassified all graduate students 1-A.

The chief clerk of the local San Luis Obispo draft board said that local boards, in determining a person's classification, work under the "Normal Progress Program." This system is such that a student who enters college and carries a full unit load each term will receive a 2-S classification, provided there are no interruptions in his education. Fourth year students automatically get a 1-A classification.

## Coronation Ball accents 1933-66

"The years '33 to '66" will be the theme of this year's Coronation Ball which is being held Saturday, Oct. 20, from 9:00 p.m. to 1:00 a.m. in the Men's Gym.

The dance, sponsored by the ABM club, will utilize the theme in its decorations which are to be quite elaborate according to Gary Rose, ball chairman.

The theme is based on the years President McPhee has been associated with the college. McPhee is expected to be present at the dance for part of the evening.

The Collegians will provide the music, and colored photographs will also be available at cost for those who desire them. Refreshments will also be served. Highlighting the evening activities will be the coronation of Miss Lynne Johnson, 1965 Homecoming queen.

Tickets are available at the student body office at the price of \$2.00 per couple.

## Taxi for alumni

Taxi service will be provided for alumni by the Poultry Club during the hours of 8 a.m. to 2 p.m. on Saturday. Taxis will be located around the Administration Building and in the Faculty Parking Lot at the west end of the cafeteria. Rides will be provided for those wishing to tour the campus and also for transportation throughout the campus.

## Poly grad Peace Corps volunteer

Richard G. Warner, Cal Poly alumni and member of the Physical Sciences Department faculty during the past two years, has been named a Peace Corp Volunteer, having completed 11 weeks of training at the University of California at Los Angeles, and six weeks in Puerto Rico prior to an Oct. 26 departure for Chile.

The new Volunteers bring the number of Peace Corps university teachers in Chile to about 75. In addition, some 225 Volunteers are working in urban and rural community development, forestry, nursing, education and credit union and cooperative development.

The departing Volunteers join the 10,000 other Peace Corpsmen now working in 46 nations of Asia, Africa and Latin America. Despite these numbers, many more Volunteers are needed. Persons interested in starting a two-year Peace Corps assignment this fall should complete and submit a Peace Corps application as soon as possible and take the Peace Corps Placement Test, which is given throughout the country the second Saturday of each month. All pertinent information can be obtained at post offices or by writing the Peace Corps, Washington, D. C. 20522.

tion but this can be deferred until the end of his fourth year by securing a classification 1-SC.

While the local boards are given some discretion in how they classify students this is the general pattern followed throughout the nation, according to a San Luis official.

Col. Leitch, commenting on reclassifications, stressed that students who receive 1-A classifications may not necessarily be called for induction. "It would depend on the military requirements during the spring and summer."

What should you do if you receive a 1-A classification? Dean Chandler said, "A student receiving a 1-A should notify the board that he is in college taking a full study load. He should request a deferment if he wishes it. Most boards that will not grant a 2-S deferment to a student will classify him 1-SC and defer him to the end of the college year provided he meets all other requirements."

The 1-SC deferment can be applied for only after the student has received his notice of induction. The school must verify that he is a full time student, and must submit form SSS-109 to the local draft board.

Defense Department manpower requirements have also been lowered in a move that could add to 100,000 or more men annually to the nation's eligible draft pool. The move, the first of its kind since the Korean War, hopes to increase the number of acceptable enlistments by 25,000 a year. At the present time, about 46 per cent of the enlistment and draftees are rejected for physical and mental reasons. The move is aimed primarily at high school graduates attempting to join the service.

Starting the first of the month, high school graduates have been accepted as mentally fit for service if they scored above the lowest 15 per cent. Formerly, high school graduates were required to score above lowest 30 per cent to pass mentally fit.

The new system will still include anyone among the lowest 10 per cent but those scoring between 10 and 15 per cent will be required to take a supplementary test and can still pass as fit.