

El Mustang

CALIFORNIA STATE POLYTECHNIC COLLEGE *

VOL. 16, NO. 9

SAN LUIS OBISPO, CALIFORNIA

JANUARY 13, 1956

Ag Engineers Move Into New \$500,000 Home

By Don Nielson

Cal Poly's new half million dollar agricultural engineering shop building and classroom-office unit has opened for class instruction to serve the largest college enrollment of agricultural engineering students in the nation. Ranking well above Iowa State, in second place, the department has over 225 majors and handles a total of around 1200 students presently enrolled in classes offered by the department, according to department head, James F. Merson. These figures include those students enrolled in the department under Point IV.

140 Yards Long

The newly-opened shop building is 75 feet wide and 420 feet long, somewhat longer than the length of a football field. Supplementing the larger structure, the office and classroom building has three classrooms, a reference and conference room, and offices that will house 11 of the 14 staff members. Only the offices are not yet ready for occupancy.

This smaller building has an auditorium-type classroom, which has a capacity of 150 students and features a turntable installed in the front part of the room so that a large piece of machinery can be displayed to better advantage.

"Lazy Susan"

The turntable might be likened to a "lazy susan" in magnification, of course, since it has a three-ton capacity. The auditorium is completely equipped with audio visual equipment.

New equipment will be displayed from time to time in the large lobby which also has two bulletin boards for display material.

The shop building itself is divided into seven shops and laboratories. Two special rooms are designed for farm machinery, one for farm power, one for rural electrification and irrigation, and the other three general purpose shops designed primarily for Agricultural Mechanics I and farm structures instruction.

A large portion of the wall on the west side of the building is green tinted fibreglass. Vertical storage for lumber and steel is provided, along with other storage closets, bins for bolts, lockers for supplies, tool cabinets with (continued on page 8)

Campus, City Fete Printing Week '56

Printing week 1956 is to be observed by Cal Poly and San Luis Obispo with the printing department heading it Monday Jan. 21 with a dinner in Lib. 118 at 7 p.m.

Monday a proclamation showing San Luis Obispo's interest in printing week will be issued and signed by the mayor with a TV interview with Bert Fellows and two printing majors set for Ted Davies Wednesday show. Also during the week displays will appear in downtown stores and two fifteen minute radio shows will take the celebration.

Southern Neighbors Sponsor Top-Rated Arabian Horse Show

Our southern neighbors—Kellogg-Voorhis unit of Cal Poly—has developed what has been labeled one of Southern California's top tourist attractions. Kellogg Arabian horse exhibitions are now in their 20th year.

Twenty-three Arabian horses, carefully selected from the 60-horse herd at the ranch campus, will perform under saddle, in harness and at liberty.

More Spectacular

Some of the more spectacular acts include "Albert" shown by Trainer Willie Williamson as a jumper, "Santex" shown by Trainer Walt Clements as a cutting horse, "Dantina" shown by Trainer Charles Smith as a high school horse, and "Sheeyn" shown by Smith as a three-gaited horse,



STUDENTS ON TOUR... First stop on the tours taken by several Cal Poly students at the Downey (Los Angeles county) plant of the North American Aviation recently was this metallurgical microscope used to study the internal structure of titanium alloys in connection with projects underway by the company's Missile Development Division. Company personnel interviewer Ed Keane (left) explains its operation to engineering students Robert Mohr (seated), William Eckmeier (senior), Dallas Pruett. North American is developing the SM-64 Navajo missile, a long-range surface-to-surface vehicle designed for strategic missions.

Campus Bulletins

TRYOUTS for the forth-coming Young Farmer sponsored talent show are set for Jan. 19 at 8 p.m. in the Eng. Aud. Cash prizes of ten, five and three dollars will be presented to the top performers in the final presentation on January 26 during the assembly hour.

Talented students may sign up for this on-campus talent show in the AHB office.

HOLD IT! Don't hide that smile. You may be on the pages of Business Week.

Richard Lamb, the publications' west coast editor, has received a go-ahead signal from the publications' New York office to do a feature on Cal Poly, announced Robert Kennedy, assistant to the president.

Lamb, who was guest speaker at the Ag Journalism Press Banquet during last year's Poly Royal, was impressed with his visit to the campus and consequently queried the N. Y. office on the possibility of a feature article. He plans to be here the week on Jan. 30 and will include part of the alumni tour in his schedule.

SENIORS! If you want to have your picture in El Rodeo be sure to sign up in the AHB office. Seniors must sign up previous to having their pictures taken.

The pictures are to be taken next Tuesday, Wednesday and Thursday between 12:30 p.m. and 5:30 p.m. and from 7 p.m. to 9 p.m. They will also be taken Friday from 8:30 a.m. to 2 p.m. Proofs will be distributed January 23, 24, and 25.

Pictures will be taken in CU U.

Large Crowd Expected Tonight At College Union Film Feature

"Genevieve," the second movie in the film series sponsored by the College Union committee, will be presented in two showings tonight in the Engineering auditorium. The first begins at 7 p.m. and the second at 9 p.m.

Last Friday night's feature, "Kind Hearts and Coronets," drew a capacity crowd, and some were turned away at the door. Tickets are available in the AHB office.

CCAA Strengthened As Long Beach State Joins

Long Beach State has joined the California Collegiate Athletic association, freshmen are still eligible for varsity competition and full athletic competition in all sports for all members of CCAA is foreseen as a result of a recent CCAA meeting in Los Angeles.

"Steps to Peace" Tops Rose Parade

"Steps to Peace" won Cal Poly's float a first place in the educational organizations division in the Tournament of Roses Parade in Pasadena.

The float by students was unique in that it was the only float completely designed, constructed and decorated by college students and using flowers grown by the students.

Poly's entry this year tied in closely with the parade theme of "Pages From the Ages". The float entitled, "Steps to Peace" featured a golden path of chrysanthemums leading from the foundations of the League of Nations up to the huge symbol of the United Nations, with Mr. World being lead up the path by three cherubs appropriately named Faith, Hope and Charity.

An average of \$350 was spent on the float, contrasted with the commercial entries that cost as much as \$20,000, and in the eight years of competition Poly has won four firsts, one second, two thirds, and one award of merit in the education section.

Gas Saver Is

Also Shoe Saver...

Students troubled with too much walking over a hilly campus should take notice of one student's idea.

Recently Steven Mott, sophomore, took steps to remedy the problem. He bought a bicycle, made in England with a three-speed transmission for negotiating steep hills.

"No bother with gasoline or lubrication jobs," Mott explains. "and it saves me a lot of time and shoe leather."

Oh, For Sunny Southern California

Students Tell Experiences During California Floods

As heavy rain and flood waters hit hard at Northern California during the Christmas holidays, many Cal Poly students found themselves affected to a lesser or greater degree. El Mustang has endeavored to round up a few of these personal experiences.

In Santa Cruz, for instance, DH major Walt Bettencourt and biological science major Bob Cardiff were instrumental in rescue work, including the rescue of the downtown Sportman's store, owned by Bettencourt's father.

They braced the doors and diverted the water to the basement as it flooded into the store. They timed the water as it climbed around one fire hydrant, and to their horror, the water was over the top of the fire hydrant in five minutes.

As they watched, a Red Cross station wagon was washed down the street by the current. Nearby, the water was at least four inches higher than the top of the parking meters.

"It was an eventful night," related Bob in an interview. "The water rose so rapidly that it was necessary to evacuate my whole neighborhood by boat. My brother and I spent most of the night of the 22nd wading around in waist high water helping elderly people, women and children from homes and stranded cars.

"The terrific current swept my brother off his feet, but I managed to grab him in time; a favor he returned a few minutes later," he

continued. Cardiff was impressed by the lack of panic and the casual manner with which men performed heroic deeds.

Larry March, field crops major, could have planted a garden in some of the stores where he did clean-up work. "One store had four inches of silt in the sales room," he said.

Lewis Speer, All major was working for the Cliff Cattle company in Lassen county when the water hit there. He and two other men had to move 1,000 head of weaner calves about two miles to get them out of danger. About half of the distance was under water, the calves had to swim for half a mile, but no animals were lost.

When he left Musaville for Cal Poly, Speer was the first man to get through the 108 miles to Red Bluff. His time was slightly less than a speed record—10 hours! He wore out one set of chains and exhausted a tank of gas in the first 60 miles.

All major Bill Madsen was going to Garberville (Humboldt county) for Christmas when he ran into

continued on page four

Enrollment Tops Previous Total

College enrollment figures are keeping right up to par with a total of 2999 students presently registered. This figure is slightly higher than last year's figure of 2908 at this time.

Breaking down the present tally we find, according to Admissions Officer Paul Winner, that there are 282 new students this quarter, 2724 old or returning students, and 43 graduates. Of these 43 graduates, five are co-eds.

The "bock" in bock beer, according to some dictionaries, is a corruption of Einbeck, the German city which produced the most famous beer of the Middle Ages. Its name is sometimes misspelled "Elmsbock."

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College Progress Shown In Poly Royal's History

By Larry Litchfield

"Follow Poly's Progress", in 1937, was the first semblance of a Poly Royal theme. This was depicted in a way to show visitors to the Poly campus the growth and extent of the education program. During this "early history" of Poly Royal the affair was actually a Future Farmer field-day. Quite soon, however, the scope and importance that the affair played on the college and state deemed it necessary to create a "Country Fair on a College Campus" . . . thus appeared Poly Royal, as we, today, know it.

Theme Since 1937

The permanent theme or descriptive term now applied to Poly Royal actually came into being in 1939. "A Country Fair on a College Campus" was used continuously thereafter. Today, it is used in all communications, advertising and publicity work, and anywhere else that Poly Royal is mentioned. Additional themes used in the past include "Show Window of Progress" in 1948, and "A Practical Education for a Practical World" in 1955.

"It's a Modern World" has been selected as the theme of this 24th Annual Poly Royal, April 27-28. It was chosen on its aptness to the present world and to Cal Poly by the Poly Royal Board.

Main Purpose

The main purpose of the theme besides "A Country Fair on a College Campus" is to provide continuity to all the numerous exhibits and special events on hand at Poly Royal time. This year, the entire college will rally around and present in their various displays, the modern side of their departments in relation to the college and the world, in general.

This year's theme is actually very pertinent to the present condition of Cal Poly. The new buildings complete or near completion will be open to the public for their first Poly Royal. The Science Building, completed this last fall, will open its modern classrooms containing displays and exhibits to the more than 15,000 persons expected this year. Other new buildings that view Poly Royal for the first time include the

highly advanced power plant, extensively equipped Mechanical Engineering building newly expanded Ornamental Horticulture buildings, and last but not least, a modern women's gymnasium to handle approximately 100 co-eds expected on the campus next fall.

Yes, it's a truly modern world that we live in and you'll see it all at Poly Royal. . . "A Country Fair on a College Campus".

Placement Calendar

Fri. Jan. 13

NORTON AIR FORCE BASE, San Bernardino, interviewing seniors in ME, EE, EL, aero, for permanent employment; and undergraduates in the same fields for summer jobs.

Mon., Jan. 16

BUREAU OF AERONAUTICS, DEPT. OF THE NAVY, Washington, D. C., interviewing seniors in aero, EE, EL, ME, Arch, AC, math, for permanent employment and sophomores and juniors in those majors for summer employment. Positions are in Washington, D. C.

Mon., Tues., Wed., Jan. 16, 17, 18
GENERAL ELECTRIC COMPANY interviewing seniors in ME, EE, ME, Arch, AC. They will also hold a general meeting at 4 p.m., Monday, in Lib. 114 which is open to all interested students.

Wed., Jan. 18

KAISER STEEL CORP., Fontana, interviewing seniors in ME, EE, AC, Arch.

FIRESTONE TIRE AND RUBBER COMPANY, GUIDED MISSILE DIVISION, Los Angeles, interviewing seniors in ME, EE, EL.

Fri., Jan. 20

AEROJET-GENERAL CORP., Sacramento, interviewing seniors in ME, EE, EL, math.

PLACEMENT CALANDAR ADD Teacher of typing needed for San Luis Obispo Adult School program Classes scheduled for Mondays and Wednesdays, from 7 to 9 p.m. Teaching credentials essential. Qualified persons interested phone J. N. Regier at 1980.

Cartoonist To Visit Here; Optimistic About History

History, not cartooning, has been the lifelong interest of Burr Shafer, creator of the cartoon character "J. Wesley Smith" and speaker here under the auspices of the College Union Assembly committee on Thursday, Jan. 10, at 11:00 in the Engineering auditorium. He read Gibbon's "Rise and

Fall of the Roman Empire" when he was in high school; Plutarch's Lives was one of his earliest favorites, and he is probably one of the few people who can tell you what Caesar said to Cleopatra. "At least," amends Mr. Shafer, "if he didn't say it, he should have!"

"The most interesting thing about history," says Shafer, "is the people in it. The most wonderful human interest stories are buried in fine print footnotes, or



Burr Shafer

cautiously admitted into history books to illustrate a point. History as written in the text books makes the principal characters in it seem like dreary automatons. They don't seem like real people."

His interest in bringing the people in history to life started Shafer on sketching them, eventually evolving his engaging character, "J. Wesley Smith" whose naive, but often shrewd and penetrating observations are the joy of readers of the

Saturday Review of Literature, in which "Mr. Smith" makes his regular appearances, and the Saturday Evening Post, Ladies Home Journal, and other publications in which he makes an occasional bow.

The extraordinary Shafer took business courses and, becoming a most successful business man, took over the running of the family music store in Santa Ana, in high school and college he carefully avoided all art classes because they were regarded as a little effeminate.

But as an adult who needed an evening of preoccupation from the office, he took up oil painting as a hobby. His work has been exhibited in galleries and museums up and down the Pacific Coast. And he made his hobby pay off in a successful career as a cartoonist with one hand, running his music store with the other.

In his lecture "Through History With J. Wesley Smith," his own engaging "Mr. Smith" Shafer will illustrate his talk with sketches which he makes while speaking. A humorous man rather than a wit, his own dry remarks and wry commentaries remind one very much of his own engaging "Mr. Smith."

He has no axe to grind about history. On the whole, he is quite optimistic about it. His philosophy is a simple one: no matter what you do, it's going to happen, so you might just as well relax.

To those who complain about the strain of modern times, Shafer minds them that walking down a pioneer road trying to avoid being scalped by an Indian could be something of a strain too.

"History," says Shafer firmly "is here to stay." And it looks as here to stay too.

"History," says Shafer firmly, "is here to stay." And it looks as though "J. Wesley Smith" were here to stay too.

Airline Problems Delay Instructor

One instructor's Hawaiian vacation turned into more than just grass skirts and lovely hula hands.

According to C. Herold Gregory, printing instructor, his vacation could have been taken from "The High and the Mighty". Planning to leave the Pacific paradise with just time enough to reach San Luis Obispo and Cal Poly for the winter quarter, he found too many demons barring his way to make it.

Down the runway went the plane, but before it could leave the ground a lady passenger realized she was on a plane bound for Los Angeles; her destination was Portland. The plane went back to the terminal, let off the passenger, discovered a bad engine, and announced they would be delayed for an hour.

Back in the air and six hours later it was announced that passengers should prepare for a landing in Honolulu. This time a mag-neto had conked out.

They were in the air again by 11 a.m. the following morning, but ten minutes later the engine fell apart. Back to the hotel they went.

Their next attempt proved successful, and Gregory returned to San Luis Obispo and school—two days late.

Need Summer Work? See Placement Office

"Now is the time to start applying for summer jobs," suggests Katherine Pyle of the placement office. Representatives from the State Division of Architecture interviewed students on Tuesday and Wednesday of this week. The Meletron Corporation of Los Angeles had representatives on campus Thursday. E. R. Wilson, Norton Air Force base placement officer, will be here Thursday and Friday.

On Monday, Jan. 16, interviewers will represent the Bureau of Aeronautics, Department of the Navy, Washington, D. C., and will seek permanent as well as summer employment.

General Electric company recruiters will be on campus Monday, Tuesday and Wednesday. A general meeting of all interested students is scheduled for Monday at 4 p.m. in room 14 of the library.

Application blanks for summer jobs with the United States Civil Service commission and the State of California are available in the placement office now, according to Miss Pyle. The federal jobs are in various U. S. agencies in California and Nevada. The state has positions open chiefly in the Division of Highways and the Division of Water resources. Summer work is also obtainable with the Soil Conservation service.

Detailed information on any of these positions is available in the placement office, Miss Pyle says. Machine No. 6

Civil Service

Another opportunity to take the Federal Service entrance examination, given Dec. 10 to about 640 in Southern California, is offered by the U. S. Civil Service commission. Further information on the exam, to be given in the near future, is available through the Placement office on campus.

"Largest groups of potential jobs are in the Department of Defense, Agriculture, and Interior and in the Veterans Administration," according to John W. Macy, Jr., CSC executive director.

Shrimp Association of the Americas figures show the 1954 shrimp catch to be about 235 million pounds. In recent years the catch of this shellfish has been worth more than \$50,000,000, making shrimp the most valuable item taken by domestic fishermen.

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Printers Lay Claim To Hidden Room

A secret, kept for over 13 years, was discovered recently by Bert Yellows, head of the printing department. The reward for exposing it was the most coveted item in any academic structure today—space—empty space!

In his quest for more room for his printing department, Yellows unearthed an area of approximately 120 square feet, located in the north basement stairway and adjacent to the printing department entrance. Upon consultation with Assistant Dean Knott over the original blue-prints, Yellows' discovery was confirmed. Workmen have already removed part of the west wall and put in a doorway. According to Yellows, the dirt floor will be cemented and covered with asphalt tile. He plans to use this additional space for storage of paper stock and other supplies.

March Graduates Ask For Formal Program

Seniors graduating in March and wishing a formal graduation ceremony are urged to sign the sheet on the senior class bulletin board in the hallway of the Adm. building.

"Already 28 are signed up," notes chairman Bob Fox, "and we only need a few more to go ahead with arrangements."

Those now signed up include Fox, W. D. Massey, Steve Alderete, Herb Ross, Jack Hinson, Matthew Filpi, R. B. Sainsbury, Arthur Leatherman, David Gage, Phillip Clark, Vernon McNamee, Emil Yappert, Mathias Medrano, Bob Bacon, Jay Hunt, John Englellah.

William M. Graham, Wes Conner, John Rheneffield, Don Bailey, Sherwood Darlington, Wayne Appel, Dwight Efflandt, Don Hedell, Charles Brooks, Vance Baldwin, George Kihara and Douglas Peters.

Newman Club Meets

The Cal Poly Newman club will begin its winter quarter activities on Monday, Jan. 16, with a general meeting at the Old Mission hall at 8 p.m. The meeting will be preceded by rosary in the Church at 7:30 p.m. Harold P. Hayes, dean of engineering, will be guest speaker of the evening. A social hour will follow the meeting. All students and wives are cordially invited.

A southpaw is at no disadvantage in the shooting game. The National Rifle Association says that some of the finest shots in the United States are left-handed. A good example is a Marine Corps colonel of Arlington, Virginia, who is one of the top ten pistol shots in the United States, and in 1952 won the National High Power Rifle Championship.

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First College Union Dance Big Success

Saturday night's first "temporary college union" dance proved to be a great success, according to Don Walker, dance committee chairman. Over 40 couples enjoyed the "Cafe Pol" theme dance to the tune of popular dance recordings and table service by members of Walker's committee.

Peter Deetken, AE major, and Bob Crowell, OH major, provided a banjo-clarinet combo floor show and several individuals won door prizes. A jitter-bug contest climaxed intermission activities, which were MC'd by chairman Walker.

The College Union board announces that the Saturday night record dance series will continue every Saturday night through the winter quarter.

Future dances have been assigned to the Cal Poly Yacht club and the Circle K club. A few open dates are still available and interested organizations should submit applications to the ASB office.

Admission to the TCU dances are by bids that are available without charge in the ASB office. "We are limited to 120 persons in Hillcrest lounge," Walker stresses, "and tables are reserved for students with dates. A lounge area is set aside for unescorted ladies and stags."

The dance this Saturday night will feature a floor show, door prizes and another dance contest complete with trophies.

Lawson Offers Key To Social Success

Do you want to establish yourself as a leader in your community, a skilled organizer, a man of parliamentary knowledge, an inspiration to every red-blooded American citizen? We have absolutely one of the most fabulous offers ever made. Just write Box 1190, San Diego.

Better yet join Dan Lawson's class in parliamentary procedure, held every Tuesday at 11 o'clock in Adm. 309. AMS vesp Ron Kellogg says 15 are enrolled and the first class was held Tuesday, but there is room for more.

This is opportunity knocking! The next time your chairman stacks amendments to the amendment more than three high, you can tell him it's illegal. When argument over adjournment reaches 212 you can stop the fight by gallantly pointing out that this motion is undebatable.

And the next time you let someone railroad you into an obscure vice-presidency and the president suddenly leaves the scene, you can step in with the impressiveness and assurance of a professional politician. It can happen to you, as it did to Truman.

Slide Rules, Etc. May Be Marked At Lost And Found

Lost anything lately? Then it's not a case for Jack Axe. Patronize the local Security department's Lost and Found.

Over 100 articles are turned into the Security office each month. To help stem the tide of lost items constantly flooding the department, it offers students the use of the Burgess Vibro-tool, which can be used for marking metal and leather goods, such as hub caps, slide rules and leather notebooks.

"If items are marked, the Security department can notify students when lost articles are turned in," says Pat Williamson, head of the Lost and Found. "It also helps in the positive identification of an item when claiming it."

Raise Frogs? Analyse Dreams? 50,000 Volumes Await Student Inspection In Campus Library

Students are missing out on some expert help if they aren't using the campus library facilities, according to Mrs. Dorothy Wright, head of reference and public service.

There are ten trained librarians and six assistants ready to assist the information seeking student. The library contains over 50,000 volumes, covering everything from dream analysis to frog raising. About 5000 new books are purchased yearly and at present there are about 2000 volumes on order.

Students May Browse

Quite the contrast to most college libraries, the stacks are open to the student. We do this primarily as a service to the student, however it does cut the number of staff members required," explains Mrs. Wright. "This gives the students the opportunity of browsing until they find the book they want. The only drawback to this system is the one to two percent loss, for various reasons."

Seniors selecting their thesis can check out theses at the reserve desk to study forms, types of subject, etc. A copy of every thesis is kept on file in the library.

Many Magazines

The library subscribes to over 500 periodicals and these are on file in the periodical room. The files are kept on the indexed periodicals with the last five years of most issues kept up stairs, and the others stored in the basement.

"Books that are not here will be ordered and purchased upon faculty or student request, unless they are too specialized or too expensive for general library use. In such instances, many times the books can be borrowed from other libraries, on a charge basis. If it is necessary to go out of state, for a book, a small postage fee is charged to the borrower," added Mrs. Wright.

Orientation Planned

"Eventually, a library orientation program is planned that all new students will be required to attend. This will consist of a guided tour of the library, instruction on how to use the card catalogue and periodical indexes, and an introduction to the library staff members. In this way, the student will know just where to go and who to see for help with their problem," Mrs. Wright concludes.

The library hours are:
Mon.-Thurs. 7:45 a.m. to 5 p.m.
and 7 p.m. to 10 p.m.
Fri. 7:45 a.m. to 5 p.m.
Sat. 7:45 a.m. to 12 noon and 1 p.m. to 5 p.m.
Sun. 7 p.m. to 10 p.m.

Oregon State Will Host Model U.N.

Oregon State college, hosting this year's model United Nations conference at Corvallis, April 6-7, has designated Cal Poly to represent Greece.

Between 70-80 colleges and universities will represent various countries at the meeting. Cal Poly has been allotted 10 to 15 delegates. Cal Poly's model U.N. is sponsored by the International Relations club.

"There are still several openings in the delegation," advised Guy Dilena, senior printing major and publicity director. "I urge all students who are interested in foreign affairs and who wish to participate at the model U.N. to attend our next meeting, Monday, 7:30, Library 118 A."

The associated student body has contributed \$500 to cover most of the expenses.

Students Take TV Tour

Cal Poly's "learn by doing" method was further exemplified this week when 26 senior architectural engineering majors traveled to Santa Barbara to tour station KEY-TV.

The field trip is coordinated with a class problem, the designing of a television station comparable to the size of KEY-TV.

KEY-TV officials pointed out some of the administrative, technical and production problems involved in planning a television station. Instructor Kenneth Holms accompanied the students.

Yachtmen Sail

"We were sailing along, on Avila bay."


Maybe the old refrain has been adulterated a bit, but appropriate enough for the Cal Poly Yacht club, which pushed one of its flat-ties into the blue Pacific last week-end in preparation for races later this month.

The club will enter either one or both of its boats in San Luis Obispo Yacht club competition on four successive weekends, Jan. 22-Feb. 12.

During the holidays the group completed its rejuvenation of the boathouse on the Santa Lucia road up the hill, and applied a little make-up in the form of red roof paint and cream-colored "face cream."

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John Gunther, author of the current best-seller "Inside Africa"

In January Reader's Digest don't miss:

CONDENSATION FROM \$2.50 BEST SELLER: "A NIGHT TO REMEMBER." Hailed as "unsinkable," the Titanic proudly sailed, carrying the world's rich and famous. 5 days later—gashed by an iceberg—she sank with 1,502 souls. Here, filled with details never before published, is a gripping account of the world's most appalling sea disaster.

UNLESS YOU DENY YOURSELF. The prevailing idea of millions today is: "How can I enjoy myself?" Famed author A. J. Cronin shows why nothing of real value can be accomplished without self-discipline; and why the surest path to true success and happiness is in learning to do without.

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THE FEARSOME ATOMIC SUBMARINE. Here, told for the first time, are the capabilities of the Nautilus, and why atomic submarines will outmode the defense setups of all nations, including our own.

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By Former Poly Students
"Bill" Stone and "Tom" Walker
454 HIGUERA STREET PHONE 271



RAINCHECK. Cal Poly's official weatherman, John Peroni, found his job was more than just a drop in the bucket during the state's recent rain storm. Here he checks the days moisture for the records. Photo by Norton.

Experiences In Flood

continued from page one

a road block on 101 at Willets. Taking the back roads, he reached his destination, though several other cars that had started with him turned back.

On the return trip he found the road out a short ways from home at Benbow. He tried the back road again, and this time played the wrong card; he ran into deep snow, knocked a hole in the pan of his car, and suffered a three-day delay.

Norman Hinman, AH major, was working on a ranch near Eureka, went to town two days before Christmas to do his Christmas

shopping, was weatherbound for three days, spent a lonesome Christmas in Eureka.

Wayne Cox, freshman Agricultural Journalism major from Covelo, left Covelo December 21 for a dental appointment in Ukiah, 60 miles away. Nine days later he got home.

While Cox was in Ukiah ram-paging flood waters tore out two bridges, caused land slides, and flooded roads, isolating Covelo in every way except by air.

Although he was home for New Years, Cox spent Christmas vacation for the most part with friends in Ukiah. "I didn't waste my time though," he said. "I saw nine double features in nine days."

The telephone company in Tokyo recently announced that it was ready to begin acting on requests for telephone service and would start with applications dating back to 1900. It is reported in the American Peoples Encyclopedia Year-book.

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—CO-FEATURE—

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Continuous Sunday from 2 P.M.
Cinemascope & Technicolor

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—CO-FEATURE—

In Technicolor

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BIG SURPRISE ON OUR STAGE TONIGHT

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Times: 8:45

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Tues. Wed.

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Richard Basehart Gloria Grahame

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Off Beat

By Litch

With the fall quarter completed, successfully or otherwise, I think it only right if we pay homage and extend a sincere "thanks" to the Mustang Marching Band for their never-ending work during the football season. You did a great job, gang, and we're looking forward to next year. The band's job now: Preparing for the annual spring band concert held during Poly Royal.

Mustang rosters at the coming basketball games will be entertained by a 12 to 14 piece pen-band. This year's outstanding subsidiary to the Poly band is the largest ever. They will be directed by senior, Phil Johanknecht of Arroyo Grande. It's even rumored that they're planning on an original costume of some sort. We'll see!

Spring tour, to be held this year March 18-21, is beginning to shape up. The San Joaquin Valley is the chosen area and should prove to be one of the best ever. In the Glee Club, tension is mounting as the time draws near. Since there are 80 men in the club and only 40 can participate, the competition is quite high. More poop on the towns.

Because of the presence of fines in the Glee Club excuses for tardys at rehearsals are becoming bigger and better. A few meetings ago, however, this one took the cake. It seems a first tenor (no names, please) was late because his bicycle failed to start? The catch . . . no engine! How about that Dave.

During finals, last quarter, the Collegiate Quartet sang for the Professional Business Women's Association in Plomo Beach. They were cordially received and after this 'n that, did get to sing. For further details contact Don Marshburn.

The Majors and Minors will sing for the Poultry Club's annual banquet on January 21.

Recap: The second annual Music Department banquet will be held on January 17. Lots of fun and surprises should be on hand to make this even better than last year's affair.

Two Poly music-men exchanged vows over the holidays. Phil Carpenter, alto sax man in the Collegians, married the former Lee Avila of San Luis. Likewise, Larry Glandon, Glee Club president and leader of the Majors and Minors, walked down the aisle with the former Terry Brown of San Luis. Heard at Larry's wedding were John Jeffreys, baritone, and Don Wilkin on the organ.

Mustang Of Week



Lon Hansen, sophomore poultry major from Caruthers, rides high as "Mustang of the Week" and chairman of the committee which decorated the lobby of the Administration building for Christmas. Lon made all arrangements for the tree and decorations.

Among his other Cal Poly activities in Circle K, Glee club, Lutheran Students association and Poultry club.

Peeping at Poly

By Ted Clark



Peaceful Coexistence

Tadpole Might Be Leading Clue To Pituitary Gland

Why do we humans develop the way we do? William Thurmond, instructor of biological science, hopes to find the answer in his personal study of the lowly tadpole.

His studies with 45 tadpoles over the course of a year have already proved that the pituitary gland is not the only area of the body that secretes a pigment expanding hormone, which gives a body its color. The pituitary is the master endocrine gland found at the base of the brain which secretes many hormones that regulate overall body processes.

As shown by previous projects the gland originates from two sources, (1) an ingrowth from the roof of the mouth region, and (2) and outgrowth from the floor of the brain. To function properly the gland must come in contact with the floor of the brain.

Thurmond is trying to discover whether tissues, other than the brain floor, will bring about normal development of the gland and thereby provide a clue to the basic unknown substances which control development of various organs in man.

With aid of the microscope, Thurmond removed the developing pituitary from a frog embryo four millimeters in length and transplanted it into various regions of an older tadpole 10 millimeters in length. Earlier pituitary removal of the host resulted in an albino (white) condition which allowed Thurmond to clearly see if the transplanted embryo's pituitary developed and produced its pigment expanding hormone.

Thurmond has found that the tadpole tail produces a factor which brings about normal development of the gland, and also that the developing brain floor secretes a pigment expanding substance very similar to that produced by the pituitary. Both of these facts were not previously known.

The techniques for his study were developed while working on his master's thesis in 1950 and Thurmond claims the work calls for "experience, a steady hand, and plenty of sleep."

Natatorium Schedule

Maintenance of the same recreational swimming hours as last quarter are announced by the Cal Poly physical education department. Students may use the natatorium Sundays, 2-4 p.m., Wednesday 7-9 p.m., Monday, and Friday, 8-4 p.m.

Gymnasium facilities are available for recreation activities on Sunday afternoons 2-4 p.m., effective Jan. 15, according to Dr. Robert Mott. Basketballs and other equipment are obtainable.

Radio And TV Bad? Repair Shop Opening

Got a radio needs fixing? TV tube trouble?

The radio and TV service shop will be open Monday, Tuesday, Thursday, Friday and 10 to 12 a.m. on Saturdays, announced James R. Willis, faculty manager. Its new location is in the Agricultural Education building, room 11. Rates and service are guaranteed.

European Tours Open To Cal Poly Students

Students are eligible to participate in European adventure tours sponsored by YMCA, according to Cal Poly student Bob Bell, Bell, whose father Orin W. Bell is a tour director, claims students can travel from July 5 through Aug. 17 at \$1,108.

Among name places on such a tour itinerary are Stuttgart, Venice, Cologne, New York and Amsterdam. That's considerably cheaper—as much as \$1,000—than most commercial tours.

Older high school and college-age men and women are eligible for the trip, according to YMCA information. If sufficient interest is shown, a tour of Scandinavian countries will be added to the summer-agenda. Additional cost would be about \$150 for a 14-day extension.

Official golf practice will get underway next Thursday, 12:30 p.m. at Morro Bay. Students interested in variety golf should either turn out at the specified time or contact Coach Charles Hanks at his office, Ag Ed, Rm. 102.

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El Mustang

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Oh! Woe Is Me

Today, Friday 13, is one of the most feared days in the year. Housewives' tales offer a multitude of superstitions, some of which are strictly adhered to by people of all ages and of all countries.

"Unlucky will be the child born on a Friday, for it is a day of ill omen."

"Bad luck will attend a wedding solemnized on a Friday."

"A bed must never be turned on a Friday, or sleeplessness will be your fate."

In an attempt to find the source of this aversion to Friday, we found a number of answers, however contradictory.

Mohammedans (among whom Friday is the Sabbath) say that Adam was born on a Friday, and legend has it Adam and Eve ate the forbidden fruit on a Friday and on a Friday they died.

Among Christians generally it has been regarded as the unluckiest because it was the day of Our Lord's crucifixion.

On the other hand, Norsemen regarded Friday as the luckiest day of the week.

We also attempted to establish a relation of Friday with the number 13. All that we were able to do was find that Friday is unlucky; 13 is unlucky; and the two put together are doubly unlucky.

Among religious circles, ill feeling for the number 13 is attributed to "The Last Supper", at which were Christ and the twelve Disciples—13 in all.

Some believe, "If thirteen people meet in a room, one of them will die before the year is out."

Research on this superstition by Gentleman's Magazine (1798) indicates it is probably based on calculations adhered to by insurance companies, which presume that out of 13 people taken indiscriminately, one will die within a year.

Italians omit the number 13 from their lotteries. House owners in Paris have started lawsuits, and won, in order to have their number changed.

Here are a few other superstitions we dug up concerning Friday.

"He who laughs on Friday will weep on Sunday."

"Sailors dislike starting a voyage on a Friday."

In common folklore it is good to die on Friday, be buried on Saturday, and get prayed for on Sunday.

However true these superstitions may be, our staff has been warned to stay in bed today.—A.P.

Letters to Editor

Dear Editor:
During the SC-California basketball game last Saturday afternoon, the fans and student body of Cal were responsible for the referee calling the game a forfeit with three minutes to play with Southern Cal leading.

It is pleasing and assuring to know that this was not at Cal Poly. I feel that it is very unfair to a young man on the basketball court or gridiron to be given respect such as given to the players of Southern Cal and Cal and other teams.

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I hope that students here at Poly never have this experience. If signs of such unportsmanship begin to appear, it should be up to every loyal Poly student and faculty member to "nip it in the bud." I believe that applauding both teams and individuals will mean more interesting games. Congrats to the Poly students! Russ Nelson

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TO SAY THE LEAST

By Alton Pryor

Just can't resist bringing up a couple of old items to begin the new year. Elected for the "In My Face Red Dept." is printing instructor Joe Truex, who, by the way, is probably the most loved instructor on campus. Finals week proved just too much for him. He clean forgot to give a final when the scheduled time rolled around. Oh happy day!

Justice will out . . . Harry Ryan, a new addition to the security department, tagged a strange car parked in President McPhee's honored space, never realizing the President was merely driving a different car. Result: McPhee paid the parking fine and wrote Ryan a letter of congratulations.

Some of Coach Hughes' football players seem to have found an ideal way to relax. They were seen using a table in Dorrough's iodine factory for a game of "cray eight." Wonder if this is part of Hughes' training program.

Dr. Robert Mauer received this interesting bit of literature from Teheran, Iran, concerning the Iranian grading system. "The Iranian grading system is based on a scale running from 1 to 20. It is said here, with some degree of truth, that an average of 20 is reserved for Allah; an average of 19 is reserved for the King; 18 for the King's family; 17 for the prime minister and his family; 16 for cabinet members; and ordinary mortals can hope to achieve an average of 15."

When Terry Thielen, sophomore social science major, was asked for his yellow card, issued during pre-registration, to admit him to a history class, he could not produce it. Reason: Lost it in the flood. Ironically, this columnist received this bit of info from Bob FLOOD.

(Overheard at a convention . . . An old maid is like a can of paint; stir it up enough and you have it on your hands.

Remember—only 290 shopping days until Christmas. And that's to say the least.

An interesting theory in bread-making originates from some parts of France where seawater is used in the making of bread dough. The inhabitants contend that bread is made more wholesome by the mineral content of the water and that this bread stays moist longer than the ordinary kind.

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LITTLE MAN ON CAMPUS

by Dick Bibler



"I'VE WAITED FIVE YEARS FOR SOMEONE TO ASK ME THAT QUESTION."

We Sent This Letter to Pres. McPhee

Dear Mr. McPhee:

On November 22nd we had the pleasure of serving a banquet to the Architectural Engineers of your school. We were very much impressed by the fine conduct of these young people. Never, in our long experience in the restaurant business, have we met a more well-mannered group. They are, indeed, a credit to the California State Polytechnic College.

Very sincerely,

Paul Jones, Prop.

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LEVI'S HEADQUARTERS

BENO'S

'56 Cage Schedule

Jan. 12—Los Angeles State	There
Jan. 14—San Diego State	There
Jan. 17—Westmont College (SB)	Here
Jan. 20-21—Chico State	There
Jan. 24—Fresno State	There
Jan. 27—Santa Barbara	Here
Jan. 28—Long Beach State	Here
Jan. 31—Whittier College	Here
Feb. 3—Pomona College	Here
Feb. 4—San Diego State	Here
Feb. 8—Santa Maria Dukes	There
Feb. 10—Santa Maria Dukes	Here
Feb. 14—Santa Barbara	There
Feb. 18—Fresno State	Here
Feb. 21—Westmont College (SB)	There
Feb. 25—Los Angeles State	Here
Mar. 1, 2, 3—CCAA Tournament	
GAME TIME 8:15 P. M.	

1956 Boxing Schedule

Jan. 14—Chico State—Here
Jan. 27—Univ. of Nevada—There
Feb. 17—San Jose State—Here
Feb. 24—Stanford Univ.—Here
Feb. 27—San Jose—There
Mar. 8—Santa Clara U.—Here
Mar. 9-10—Chico State College
Tournament—There
Mar. 17—UC—There
Mar. 22-24—PCI's Sacramento
Apr. 12—NCAA Tourney, Madison
Wisc.

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ALL TOURNEY TEAM...

Two Mustangs made the All Tourney basketball team during December's Christmas Tournament on the Cal Poly court. Accepting their trophies, and being congratulated by Coach Roy Hughes, are (No. 44) Jim Crockom, center, and Jim Gilbert, forward. Remaining surprised gentleman is Fresno State's manager, gathering the laurels for FSC's Bill Murphy. Crockom was named most valuable player.

(Photo by Chuck Lotapelch)

Gymnasts Needed Now

Mustang gymnasts will have their first meet of the '56 season, Sat., Feb. 11 at San Jose State college. A three-way meet; gymnasts from Cal Poly, Stanford and San Jose will compete.

Coach Glen Noble has issued a call for gymnasts not yet in training. The group meets in Crandall gym, 4-p.m., Monday afternoons.

Poly Cagemen On Road;
Back For Jan. 17 TiltBy Earl Hodgson
El Mustang Sports Staff

Already looking like a championship cage squad, Coach Ed Jorgensen's Mustang quintet are on the road. They tangled with the Los Angeles State Diablos last night and move further south to match court antics with the highly touted San Diego State Aztecs tomorrow.

The Mustangs emerged to capture the crown in the recent Christmas tourney. In the tourney, Jorgensen's quintet rolled over the Diablos, 70-55, but didn't get a chance to put their strength to test against coach George Ziegenfuss's Aztecs.

Jim Crockom, Mustang center, voted most valuable player of the tourney, continues to pace the green and gold with his 15.8 per game average. Close behind is Jim Gilbert who has been showing more and more improvement and has hit for a 13 point per game average. Len Oswald, another forward, ranks third with his average of 11 points. Ernie Hall has tallied 11 points per game.

Rugged Opposition

Tomorrow Jorgensen's hoopsters will face some rugged opposition as the Aztecs have been strengthened by a veteran squad that was chalking up more than 70 points per game earlier this season. The Aztecs have eight returning veterans, five of which played on last year's squad.

One of their key men is Danny Newport, forward, who has hit for 281 of 464 field goal attempts in two seasons. Tony Pinkins also adds strength to the Aztecs and was leading scorer last year with a 18.2 game average. Come what may they seem to have the best cage squad in several years.

Last Friday the Mustangs played host to Pasadena Nazareth. The many fans who turned out saw the green and gold play their best game of the season as they breezed to a 87-76 win. Everything seemed to run smoothly for the galloping Mustangs. "If the squad plays the same brand of ball throughout the season, we will be hard to beat," commented Coach Jorgensen.

Teamwork Excellent

The ball handling, passing and teamwork are excellent and none can deny that the Mustangs had a good night at the free throw line sinking 21 out of 25 free throw attempts.

Following the San Diego tilt, the green and gold return home to take up practice sessions in preparation for the Westmont college Warriors. Jorgensen's hoopsters will host the Warriors in a tilt to be played this Tuesday night.

Soccer Team Preys
On State Title;
To Meet USF Dons

Polishing off a brilliant seven win one loss season, Coach Hans Mager's soccer squad wound up on top of the heap to capture the Southern California Intercollegiate league title and establish themselves as undisputed champions of the southern division.

Championship Hottled

Mager's booters defeated UCLA, USC, and the Pomona college Aztecs. With the championship already settled in their hip pocket, an undermanned squad traveled to meet Cal Tech for their only loss of the season.

Soon the Poly squad will resume training in preparation for the State championship game to be played here against the University of San Francisco Dons, champions of the Northern California Intercollegiate league. If they defeat the Dons, they will go into the national playoffs.

SF Strong Test

Coached by Gus Donoghue, the San Francisco squad will be a strong test for the Poly squad. The Dons literally ran all opposition into the ground and swept to their eighth straight championship this season.

Mager is scheduling at least two practice games to round the squad back into top form. Soon the Poly squad will take on the San Jose State Spartans and another soccer team from Carpinteria.

Women Eligible For
Swimming Instruction

A women's swimming instruction class is slated to get underway Mon., Jan. 16 at 7:00 p.m. in the Cal Poly natatorium. Women faculty members, employees, faculty wives and students' wives are invited to participate in the program designed to teach women to swim.

The program is under direction of Mrs. Alice Haworth, women's physical education department faculty member. In that this is an instructional, not recreational class, participants are urged to be at the pool on time.

Women will use new women's locker room facilities for dressing. Suits, caps and towels will be required.

Official track turnout will be Mon., Jan. 16, according to head track coach Jim Jensen. All prospective clindermen can reach Coach Jensen anytime after 3 p.m. in the field house.

PIZZA

Ask your Cal Poly pals. Those who've tried our PIZZA agree—ours is the best in town. Straight from our new pizza oven to you—piping hot, tasty good. Six generous-sized slices. Why not stop by Blackies today? Make pizza and all the trimmings a "coffee break" treat **OFTEN!**

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Mustang Boxers To Host Wildcats In Tomorrow's Opener

A capacity crowd is expected to fill Crandall gym, tomorrow night, for the opening match of Cal Poly's 1956 boxing season. Coach Tom Lee's contingent—rated strongest hereabouts since '53—will meet the Chico State Wildcats, starting at 8 o'clock. There are four home matches on the season's slate.

The Mustangs are expected to open fire with Eduardo Labastida, a crowd-pleasing 132-pounder. Labastida posted a record seven wins, two losses last season and was a Pacific Coast finalist. He is expected to win over Ted Johnson, an inexperienced freshman from Chico State.

Although Coach Lee's starters were only tentative at presstime, he is expected to send Lambert Levelevier, a veteran on the local squad, into the 132-pound slot. His opponent will be Duncan McCowan.

Another Mustang PCI finalist last season, Pete Godines, will fight at 180-pounds against Cliff Weeks. Weeks, a freshman, is labeled a "real comer." Last season Godines won nine, lost three and drew once.

On up the line, another returning letterman is Frank Loduca, going against Wildcat Cloy Stapleton, 147-pounds. Stapleton, also a veteran fighter, lost to Loduca in last season's PCI's.

In the 156-pound weight, Poly will send in John Byrne to meet Jim Richardson. Richardson is regarded as one of Chico's best boxers; he gave PCI champ Dick Hender (San Jose) a good battle last season.

Operation big trim seems to best describe the light heavy division for tomorrow's meet. Jack Rhaw, sensational veteran whose two-year service stint kept him from collegiate action is trimming to 178 pounds. Usually a heavy-weight, Rhaw has been replaced in the main event by Vic Buccola, former Mustang griddier.

Former Gridders Return

Cal Poly's 1956 football team will be bolstered by the return of two former star linemen.

George Cockerton, rugged guard who played in 1952 and then broke his ankle in the opening game of the 1953 season, has returned. Another is big Sheldon Williams who plugged the gap at left tackle in 1953.

Both Cockerton and Williams put on the pads while in the service, Cockerton playing for Fort Lewis and Williams helping out the Navy in Japan. Both have one year of eligibility left.

Clock Stoppers

Your Sports News In Brief

San Diego all-opponent . . . Bud Chadwick, end, and Rudy Brooks, halfback, were named to San Diego State's 1955 all-opponent team. On the second team are Jim Cox, end, and Jerry Duncan, quarterback. ***

Jeter sole Mustang . . . Perry Jeter, Mustang halfback, is the sole Cal Poly griddier to be named on Humboldt State college's all-opponent team. Jeter played his last year of football, in 1955, for the Mustangs. He also was the only collegiate player named to the San Diego Marine all-opponent team. ***

NATA names Mustangs . . . National Association of Intercollegiate Athletics officials, in their

Anyone For Tennis? Children's Racket Squad On '56 Menu

When someone asks, "Anyone for tennis," can your child rise, grab his racket and enter the court with confidence?

If not, he or she can prepare against such a catastrophe. Tennis instruction for all children of Cal Poly faculty, staff and students, will begin Jan. 14 at 10 a.m., at the tennis courts, south of the football stadium. In case of rain, the first meeting will be postponed in favor of Jan. 21.

P.E. Sponsored
Offered by the physical education department, the program offers youngsters opportunity to build a good game—a lifetime of fun. Groups will be formed at the first meeting; meeting times for individual groups will be announced later.

Each child should have tennis shoes; if the parents have a racket it would be wise to use it, program directors advise. Effort will be made to provide individual instruction. Stress will be on fundamentals and having fun.

Depends On Interests
Depending on interests of the children, the program is designed to include—when needed—movies on tennis for rainy weather, tournaments after skill is developed and possibly some demonstration tennis matches by skilled adult players.

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* of 131 So. Harris Hill Rd., Williamsville, N. Y.
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final 1955 report of small colleges, rated Jerry Duncan 23rd in individual passing leaders; Jim Cox fourth in individual pass receiving leaders; Cal Poly 30th in team total defense; and Cal Poly 10th in team offense passing.

Bravo named coach . . . Alex Bravo, former Mustang football great, and trackman has been head track coach at Camp Pendleton. During a recent campus visit he announced intention of returning for his master's in physical education. He has another six months in the Marines and plans to tryout with the professional L. A. Rams.

Harden recent speaker . . . Coaches Sheldon Harden and Richard Anderson recently traveled to

Tulare where Harden spoke at the Tulare high school football banquet. About 12 Tulare high school athletes visited the campus, last week, as a result of the speech.

Church of Christ

1444 Santa Rosa

Sunday Services

11:00 a.m.
9:00 p.m.

Bible Study

Sunday 9:45 a.m.
Wednesday Evening 7:30 p.m.

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Students are reminded to check the Security Department before yelling thief. Hundreds of dollars of "lost and found" articles are turned in each year, reports Chief Security Officer Robert Krag.

New students are requested by the Security Department to register their cars within the next week. All information pertaining to campus auto regulations can be obtained from the Security Office.

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ALL SCIENCE. . . Photographer Dave Eckrote's "Picture of the Week" is all science—subject through photography. He collected a half-a-dozen plus printing friends, appropriately placed them in the new science building foyer, set his E & I Graphic at 1/8 and held the shutter open for 15 seconds. The result: this unusual night shot.

The eyes of x-ray reach far into the structures of the body, but not only to find such sharp disorders as broken bones and foreign objects. To the physician who specializes in x-ray, the radiologist, they reveal disorders and diseases of the chest, the heart and circulatory system, the digestive area, the genito-urinary system, and most of the other major organs.

What we see in an X-ray picture corresponds to the photographic negative made in an ordinary camera. However, it is not properly a photograph but a radiograph, for where light rays bounce off solids, x-ray waves penetrate them. Though x-rays are much like light rays, they are so short in wave length as to be out of the range of sight.

Telemetry Lecture Tells What, Why

"Telemetry—What and Why is it?" will be the title of the lecture to be given by R. E. Colander, chairman of Los Angeles Chapter of Professional Group—Telemetry and Remote Control and also head of the Telemetry section of Bendix Aviation corporation.

This lecture, the first of four to be given at two week intervals, will be held in room Sc E-22, 7:30 p.m. on Jan. 19 and is sponsored by Cal Poly student branch of the IRE, announces Stewart Kipp, president of the club and coordinator of the speaker program.

"The lectures are designed to give an overall view of the field of telemetry, the science of distant measurements and will be aimed at an audience with little or no knowledge of the subject," Kipp adds. "All students are invited and we feel that this will be especially interesting to all of the engineering majors."

Telemetry, though not relatively new, has been developed rapidly with the present guided missile and rocket program. Due to the unsafe conditions in having operators near such missiles it is necessary to relay messages from strain gauges and thermo-couples by the means of telemetry. This means of communication is useful in contacts with remote unmanned weather stations, weather balloons, and unmanned power relay stations. These signals are primarily via radio and the number of signals sent simultaneously are unlimited.

The other lectures, to be held in the same room and at the same time include:

Feb 2, "Pulse Duration Modulation Telemetry System."

Feb 23, "FM/FM Telemetry system."

March 8, "Trends and Opportunities in the Telemetry Field."

Ag Engineers

continued from page one

sliding doors, etc. The ceiling is treated with a two inch bat of glass wool for acoustics and insulation.

Filtered Air

The farm power laboratory has a dynamometer set so that a belt can be attached from equipment parked outside. Two "dead men" set in the court hold heavy equipment in place. The shop also has a small diesel test room for service and testing of injectors and fuel pumps. The room is sealed and pressurized and all air that comes into it is filtered.

The rural electrification laboratory has a full power supply of single and three phase current, a swinging boom to handle heavy equipment and a study area for the study of domestic water systems.

Tests for Cement

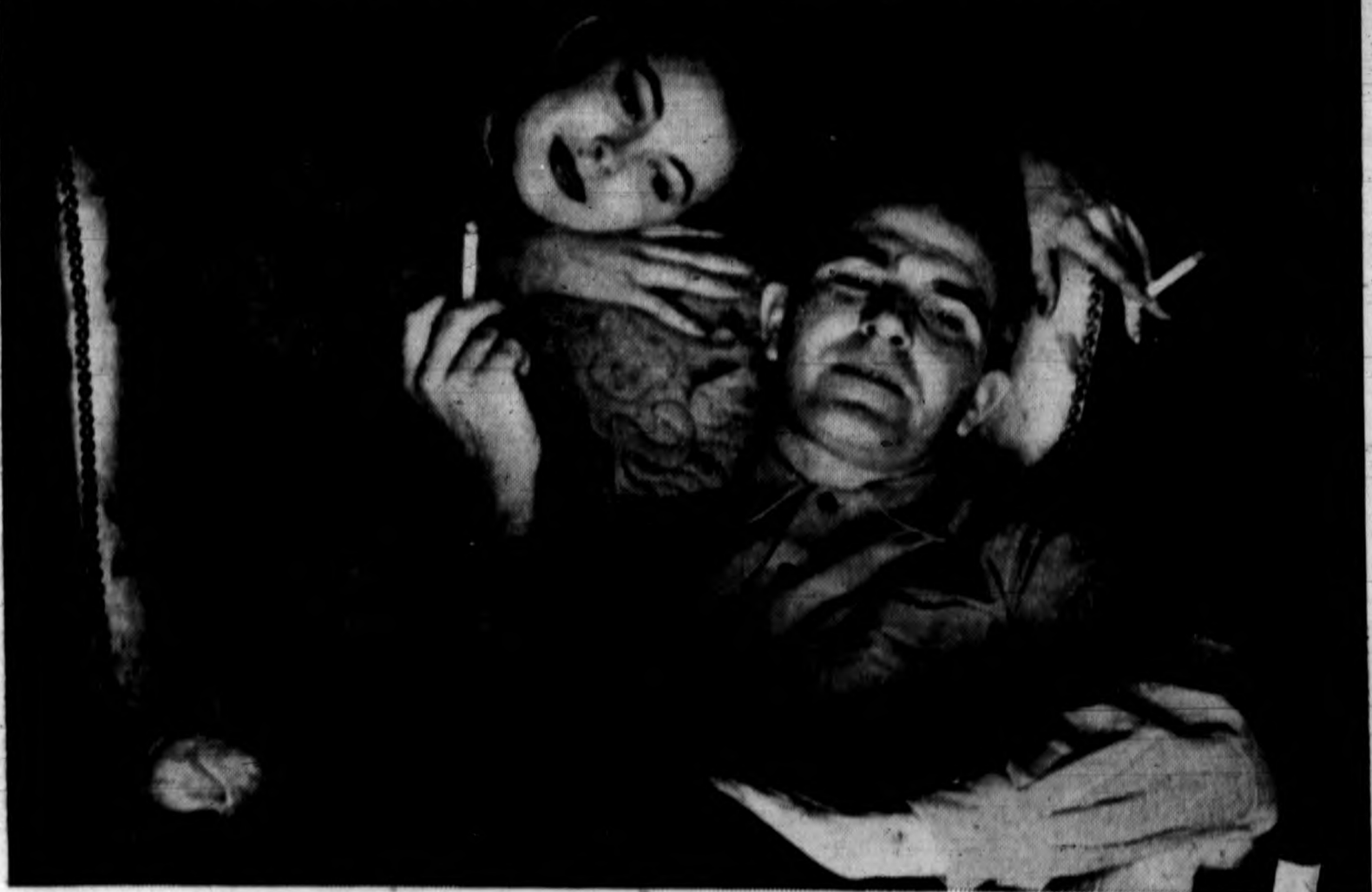
The general purpose shops have provisions for the storage, testing and use of cement. The farm power and machine shops each have two swinging booms equipped with chain hoists and trolleys. The whole unit is provided with a paved court—35 feet of concrete and then forty feet of concrete behind that. Back of this an open flow channel is being constructed by students for the study of hydraulics and irrigation equipment.

What Is X-Ray?

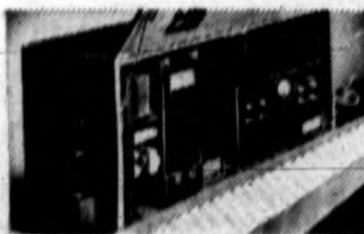
The mysterious "X" ray was first discovered in 1895 by Wilhelm Konrad Roentgen, German physicist, while he was experimenting with high vacuum tubes. It was he who named the ray "X," for unknown quantity, though medically it is called the roentgen ray.

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