

Men's Workshop Over; Women's Into 2nd Week

High school coaches wind up their seventh annual California Men's Workshop today while the women are pointing toward their second and concluding week of sports activity. This week was highlighted for the men by the timely subject of football. Heading the staff was Chuck Taylor, Stanford mentor, coach-of-the-year in 1953, ably assisted by Homer Beatty, head coach at Baker College, and George Hlean of the C. K. McClatchy school in Sacramento.

Al Arpa, commissioner for the workshop, fulfilled all promises for a well-rounded program. Jess Mortensen, track coach at the University of Southern California, imparted his knowledge of successful track techniques to the participants with Ducky Drake, famed trainer from UCLA, passing on training and conditioning hints.

C. Carson Conrad and Verne Landreth conducted physical theory while Carolyn Mitchell and Martin Trish taught social dances. Archery techniques were imparted by Myron Anderson and Ira Walsh, of the Los Angeles Examiner, handled public relations.

The workshop was sponsored by the California Association for Health, Physical Education and Recreation.

Instruction in a variety of sports for the more than 170 women registered for the workshop will continue next week.

Inhibitions Peeled As Artists Daub At Health Center

Man, dig those crazy colors! Purple rose, jonquil yellow, pink beige, pottery blue, and sage green. Sounds like the lingo at a French art gallery, but no, it's right here at Cal Poly.

Johnnie Mayda, Bill Dietzman, Hal Harper, and Ed Wyneken, members of the foundation maintenance crew, have turned Michelangelo on us as they're now splashing the before drab gray and white interior of the health center with these colors.

Liven up the joint was Mrs. Imogene Gow's suggestion and for good reason too, as any psychology student could tell you, for these color combinations make the rooms seem larger, lighter, and more homey. If you don't think so, just drop in and take a look at Dr. Taylor's office with three walls of pink beige and one of pottery blue hanging under white ceiling. Dr. Lovett's office hasn't been mixed either as the yellow paint was dashed on three of the walls and blue on the other. (This modern art!)

What a reception room! The door is sage green (easy on the eyes) opening into a glad yellow and green combination.

Even if you haven't a cold or chronic ailment, drop around, just for art's sake.

Three Instructors Appointed To Cal Poly Staff

Appointment of three faculty members for the English, mathematics and social science departments at Cal Poly was announced today by President Julian A. McPhee.

In line with Poly's traditional policy, McPhee pointed out, the new faculty members not only have strong academic backgrounds but extensive applied experience in the fields they will teach.

Working Toward Ph. D.
A one-time farmer on his own, a research assistant for the Federal Reserve bank, and a former analyst for the U.S. Department of Agriculture at Washington, J. D. Avery, Los Angeles, will specialize in agricultural economics in Cal Poly's social sciences department. He is a former faculty member at Texas Christian university, UCLA and Long Beach City college, and he is pursuing work toward his Ph.D. at UCLA. Subject of his doctoral dissertation is "Land Use Problems in Connection with the Central Valley Project," a field of major importance to development of the state's water resources.

Dr. Charles Jerold Hanks of San Luis Obispo, a veteran commanding officer in the U.S. Coast Guard, is the new mathematics instructor. He is a former member of the mathematics faculty at Drexel Institute of Technology, Philadelphia, and obtained his doctor of education degree at the University of Arkansas, Fayetteville, where he served as a faculty member and was head line coach for the Razorbacks.

Former Mansfordite
New English instructor is Robert Leslie Andreoli, native of Redwood City and presently living in Millbrae. He has been in real estate sales promotion in the bay area. Prior to that, he taught in the high schools at Gilroy, Porterville and San Bruno. He has an M.A. degree from Stanford university and advanced graduate work at both Stanford and the University of California, Berkeley.

Cadet Reins Omitted From DMS Listing

Last week's issue of El Mustang carried a story of cadet honors received during the summer encampment at Ft. Lewis, Wash., from which the name of Cadet Capt. Edward R. Reins, Jr. was inadvertently omitted.

Cadet Reins, junior in electronics and radio who hails from Merced was among those men who received Distinguished Military Student ratings at the close of the six-week summer training period.

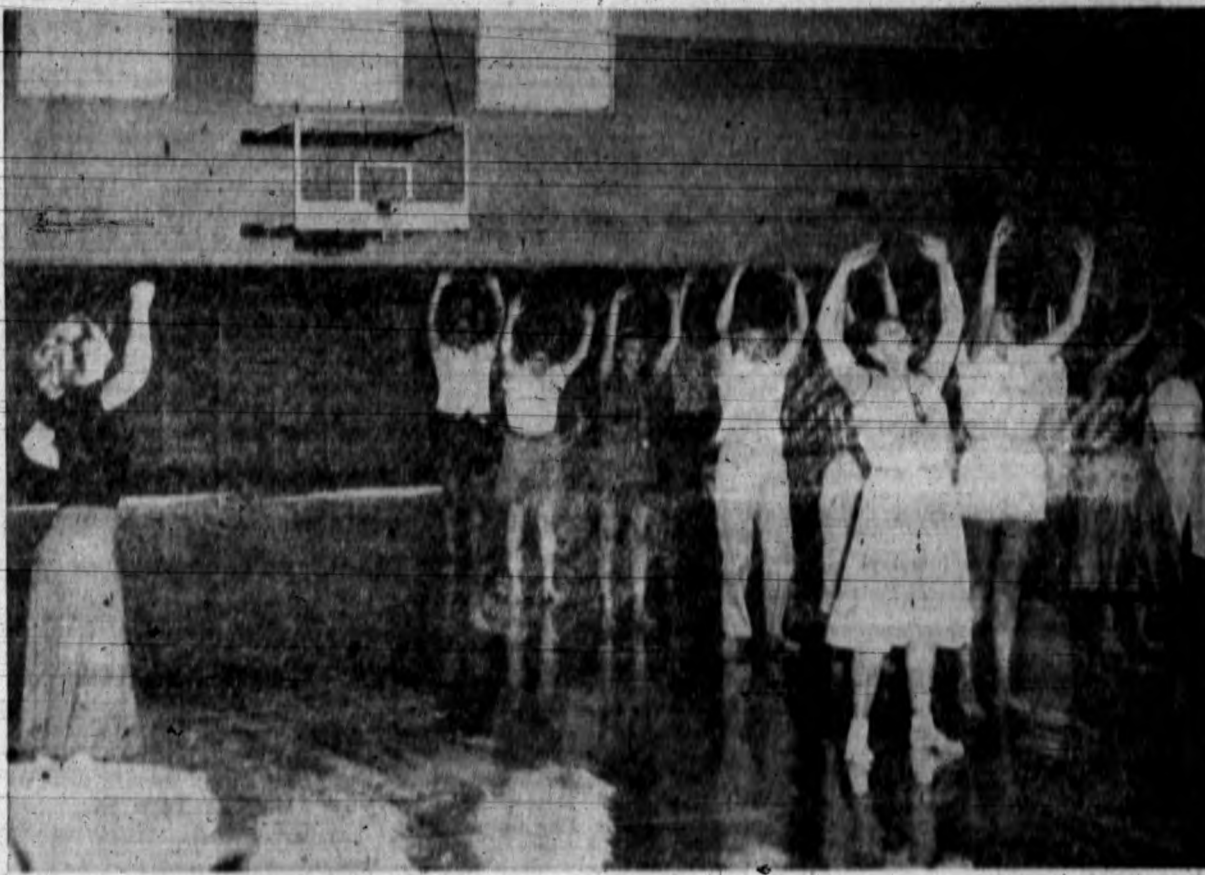
El Mustang

CALIFORNIA STATE POLYTECHNIC COLLEGE

VOL. 14, NO. 32

SAN LUIS OBISPO, CALIFORNIA

FRIDAY, AUGUST 20, 1954



HIGHER PLEASE . . . Josephine Murray, instructor in modern dance, seems to be exerting this group of Women's Workshop participants to greater efforts in this classical dance position. The Workshop rounds its first week today and will start its second and concluding week Monday. (Photo by Harvey Kidder)

Dairymen Gather On Poly Campus For CFBF Meeting

Dairymen from all sections of California began converging on San Luis Obispo this morning for the quarterly meeting of the dairy department of the California Farm Bureau federation. The meeting will be held at 9:30 in Room 214, Administration building by chairman Leonard Scott of Pomona. An exceptionally interesting background for the session has been arranged on the Cal Poly campus where President Julian A. McPhee and Dean of Agriculture Yard Shepard, have prepared a welcome for the visiting dairymen.

Many of the important problems confronting the dairy industry will be tackled by several committees appointed by chairman Scott. Among the more important subjects which these committees will take under consideration and which will be discussed and acted upon during the day-long session are legislation, surplus management, livestock disease control, finances and a testing and culling program.

An outstanding feature of the day's program will be a steak barbeque to be served at noon on

the campus. A program has been arranged for the ladies, who are especially invited. Arrangements have also been made by the staff of the Cal Poly dairy division for all attending the meeting to participate in the judging of a class of dairy cattle.

Headquarters for the various committee meetings held yesterday was the Anderson Hotel in San Luis Obispo.

Farm Bureau's dairy department is recognized as the leading organization for dairymen in California.

Whistle Blowers Slate Two-Day Refresher Course

It's back to school for the Pacific Coast conference football officials.

Sixty of the whistle-carrying, striped-shirt crew who take charge of more than 50 PCC grid games during the year will convene on the Cal Poly campus Sept. 4-5.

The two-day clinic will give the officials a chance to become acquainted with rule changes and get back to the operations of the game. Victor O. Schmidt, commissioner

of the PCC, is in charge of the program. Handling arrangements for Cal Poly is Roy Hughes, director of athletics and head football coach.

Hughes says the Cal Poly varsity will hold a scrimmage Sept. 4, so the officials can once more familiarize themselves with their duties on the field under game conditions.

Exam Schedule

All final examinations for the current six-week term will take place on Thursday and Friday, Sept. 2 and 3, according to information released from the registrar's office.

Time of final exam is determined by the hour the class normally meets. In a six-unit combination course, the instructor may choose to give an examination in both hourly blocks. Finals will be held in regular classrooms.

Class Hour	Exam Hour
7:30	Th-8
8:30	F-9
9:30	Th-9
10:30	F-10
11:30	Th-10

Classes not falling within these blocks will have their examinations during the last class or laboratory meeting.

High Velocities Developed In New Aero Wind Tunnel

To keep up with the supersonic progress of aviation, the aero department procured a large capacity wind tunnel from Point Mugu last week. The tunnel can produce velocities up to 800 miles-per-hour in its 9.5 inch diameter test section. Models up to 2.5 feet in length can be swallowed up inside it.

Power is supplied to the tunnel by two Packard-Merlin aircraft engines which have been converted to run on economical butane. The tunnel consists of five major sub-assemblies, the inlet bell, test section, first diffuser, nozzle box and the main diffuser. When it is assembled it will have an overall length of 35 feet.

Spotted By Richardson
The person that put the bug in the engineering division's ear that Mugu had a spare tunnel kicking around was Robert K. Richardson, Cal Poly graduate, employed at Point Mugu. He dropped a line to dean Harold Hayes, who started inquiries and negotiations for the tunnel.

Richardson says that two years ago he and Lester Gustafson, aero department head, examined the possibility of acquiring the tunnel for Cal Poly, but at that time the Naval Air Missile test center at Mugu was still using it for model work. Richardson says he knows the tunnel will help Cal Poly aero graduates to qualify for better paying jobs.

The tunnel was recently declared surplus and was turned over to the State Agency for Surplus Property, Department of Health, Education and Welfare, and it was thought that the NACA and the USAF would be the only agencies that would have a use for it. Dean Hayes acquainted the OHEW with the Cal Poly learn-by-doing policy and they decided Cal Poly could have the tunnel if the school supplied transportation.

The tunnel weighs 12,000 pounds, and to produce 800 m.p.h. flow through the test section, the Merlin engines' superchargers were modified to serve as air compressors to move five pounds of air a second at a pressure of 30 pounds per square inch. The tunnel will be used by the students for instruction and senior projects.

Previous Experiments Limited
The aero department has several small wind and smoke tunnels, but experiments were limited because of the small capacity, usually about one square inch of test section. The tunnel is by no means supersonic, but such things as the use of flaps, sparks and boundary layer controls can be studied with the newly acquired tunnel.

The students in aero have been designing a supersonic tunnel and the newly acquired Mugu tunnel will be used in conjunction with the higher speed tunnel, says Gustafson.



SCHOLARSHIP FUNDS . . . Cal Poly President Julian A. McPhee, right, accepts a check for \$2,700 from the Sears-Roebuck foundation for 14 scholarships at Poly. Presenting the check is E. J. Krueger, manager of the San Luis Obispo branch store. Looking on is C. Paul Winner, college admissions officer and chairman of the faculty scholarship committee. (Photo by Jim Dearinger)

El Mustang

CALIFORNIA STATE POLYTECHNIC COLLEGE
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Noble Concludes Parasitology Studies In Manila

Dr. Glenn A. Noble, head of the biological science department at Cal Poly has for the last year been teaching and doing research at the University of the Philippines. Dr. Noble left the United States in June of 1953 to study and teach under the Fulbright program.

During the last three months of his year in the islands, Dr. Noble was doing research work that led to the discovery of two new species of parasitic amoebae. During his first semester at University of the Philippines he taught veterinary medicine and during the second he taught at the medical school in Manila.

Liked Philippines
Dr. Noble said that he and his family liked the Philippines very much and would have been glad to stay another year had the opportunity been theirs. He explained that since all instruction in Philippine schools above the first two grades is given in English there was no language barrier. His daughters continued their education and his wife taught at the American school in Manila.

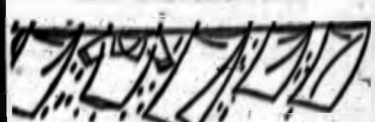
Dr. Noble described Manila as a friendly but noisy and crowded city. Telephone communication between the University and the city was difficult. He said he used the phone only twice during the year. Air transportation is the best method of transportation within the country since rail and roadways are few and poor, Dr. Noble added.

Subjects At Hand
Teaching parasitology was made easier, explains the doctor, since in the Philippines there is an abundance of parasites. Many times the subjects could be found for student inspection, while still alive.

Times Do Change!

From the files of the Santa Barbara Independent, Aug. 17, 1904—The San Luis Obispo Tribune states that many applications for admittance to the State Polytechnic school located at that city are coming in from all sections of the state and that there is every prospect of the institution blossoming out "in full splendor and success," in the near future. This will be good for the school and the state but it will not be a very pleasant outcome for the newspapers of the metropolis which predicted all sorts of failure for a state school located so far from San Francisco, which does not want any good thing located so far away.

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Poly Building Program Well Underway

The foundation for the new science building is rapidly taking shape, says Harry Overland, superintendent for the Main Construction company.

The cement piers or columns on which the building will stand, which in some cases are 30 feet below the ground level, are being poured. They are steel reinforced, and the deepest require over four yards of concrete to anchor the building to solid rock, says Overland.

Blasting Necessary

The basements for the building have been carved out of this solid rock and have required blasting to facilitate their excavation, explains Overland.

The floor slabs in two of the wings of the building are ready to be poured, and by next week the erection of the structural steel girders will start, he added.

The southeast wing of the science building required a cut of ten feet, while the northwest wing needed a fill of 17 feet, says Harold O. Wilson, executive dean and coordinator of the master plan. This still leaves a difference in the floor levels of eight feet between these wings, says Wilson.

The total cost of the building has been estimated at somewhere over two million dollars.

OH Plans Readied

Plans for the ornamental horticulture plant have been discussed

and working drawings have been made up by the State Department of Architecture.

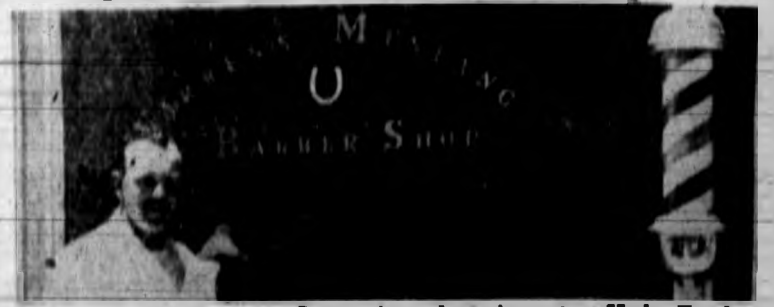
Bids for the construction of this unit will probably start at the first of next year, says Howard C. Brown, OH department head. A site clearance for the OH unit, which will be located above the Poly View trailers, is near completion. Part of the unit will be on the old Garcia ranch, says Brown.

This location makes the sales department readily accessible to cash customers, who will park in the sales department's own parking lot adjoining the main entrance to Poly.

One of the OH buildings has already been relocated, and three of the newer green houses will be moved in the near future, says Brown.

Designing for the ag engineering building is still in progress, but should be opened for bid by the first of next year, says Wilson.

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Engineering Staff Gains Two Faculty Additions

Appropriately enough for a school that draws students every year from practically every county in the state, Julian A. McPhee, president of Cal Poly, announced today the appointment of two additional engineering division faculty members—one from the northern part of the state and the other from the southern.

Joining the mechanical engineering staff is Benjamin H. Brown, Santa Monica. New welding department instructor is Glen E. Beeber, Susanville.

Brown, for the past three years a master layout checker for Douglas Aircraft at Santa Monica, was formerly with the Allison Engineering Division of General Motors at Indianapolis and with the Navy Beebees. He obtained a bachelor of science degree in trades and industries at Purdue University.

At Santa Monica, he has been active in Boy Scout and Girl Scout work.

Beeber, a graduate of Chico State college, has been a welder and machinist for Pollack Shipbuilding company, Stockton, and Anderson's Welding company, Chico. He has also been a welder and millwright for Herlinger Construction company, Chico, and comes to Cal Poly from an instructor's job at Lassen Union high school, Susanville.



BLASTING FOR THE PIN . . . Don Watts, Poly housing manager and coach of the golf team, demonstrates to an interested gallery of work shop participants the proper method of getting out of a sand trap. Photo was taken on the football practice field. Golf was one of the many sports taught during the seventh annual California Workshop which is rounding out its second and final week. (Photo by Jim Dearing)

Iranian Will Take Poly Ag Techniques To Native Land

By Sam Hawkins

At Cal Poly after years of preparation in Iran and Lebanon Habib Shekholeslami is studying field crops for his own and his country's good.

Habib, born 22 years ago in Iran, traveled thousands of miles to study and to learn to help feed his countrymen. With the burning desire to see his country bettered, he traveled half way around the world from the security of his father's farm to the strange and unknown.

Methods Primitive

At home Habib saw the fields being tilled by a wooden plow pulled by oxen, machinery as known here being all but unknown. At home he saw the crops harvested by hand—by thousands of hands. He came to see and has seen a machine do the work of many men.

Six years of elementary schooling, and six years of high school and studies at the American university in Lebanon taught Habib that he needed more than his country's schools could offer. Taught him how much more his country needs; inspired him to work toward a better Iran.

The crops grown in his country are much the same as are grown here. In his country, food is prepared somewhat different than here. Salt and sugar are never used in the same recipe for instance. Sugar and vinegar and like combinations are well liked by his countrymen, and they like to warm their milk and put sugar in it. But food is food however it is prepared, and Habib wants to be sure his country always has enough.

Hollywood Version

American movies led Habib to believe this country was very wealthy, everyone had plenty and lived well. He has found this to be a little exaggerated, but not in the hearts of Americans. Iranian movies and other movies he has seen show the people as they are, which he thinks is good.

NOT LETTER PERFECT

At Amherst, Robert Frost's method of teaching his course in English literature was to give informal talks at his home in the evening. The poet detested semester examinations, but since they were compulsory he obeyed. "But I made them as simple as I could," he told a group of us. "Once I asked only one question, 'What good did my course do you?' and requested brief replies. The answer I liked best was 'Not a damn bit!'"

"Did you pass him?"

"Yes, I gave him a 90."

"Why not 100?" we asked.

"He left the 'n' off damn."

—N. S. Olds in Village

Fletcher Replaces ROTC Instructor

Captain Earl W. Fletcher replaces Major Howard Braunstein as instructor in the military science and tactics department, announces Cal Poly President Julian A. McPhee.

Captain Fletcher, veteran of three overseas theaters and aide-de-camp to General Maxwell D. Taylor and Major General C. R. Magruder, will take over the duties of Major Braunstein, who has been ordered to European command, says Lt. Col. P. A. Loisel, head of the M&T department.

Captain Fletcher, holder of the bronze star and Korean presidential unit citation, also wears a pair of silver paratrooper wings awarded at Ft. Benning, Ga., while with the eleventh airborne division.

Lt. Col. Loisel says that he is pleased to have Captain Fletcher assigned to the M&T staff and knows from his excellent record that Fletcher will be a welcome addition to the group of ROTC instructors on duty at Cal Poly.

Job Announcement

Public Health Nurse: Must have California Public Health Nurse Certificate. Generalized County program, \$318-\$362 per month (recruiting at \$333), 40 hr. week, 12 working days vacation, mileage or car furnished. Write—**Civil Service Commission**, 967 Ocas Street, San Luis Obispo, California

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Technician Steve Cochran

"SHARK RIVER"

Shown—7-10:10

Student Housing Hotel May Help

A few of the growing pains of the off campus housing may be relieved by a new cooperative dormitory at 158 South Higuera street.

Cecil Evans, owner of the two-story brick building, is directing the \$5,000 clean-up and paint-up project. He plans to house 40 students at the beginning of the fall quarter.

Although the project has not been officially sanctioned by the off campus housing committee headed by John Lawson, activities officer, and Sally Stevens, his assistant, Evans states that he is constructing and redecorating the 19 rooms in compliance with the committee's health and safety regulations.

Evans says that each room will have new furniture harmonizing with the light green interior and linoleum floors. There will be bunk beds with innerspring mattresses, wash basins, study desks, and ample wardrobe space. All-tile showers are centrally located.

He pointed out that a large recreation room will have ping pong and pool tables. A cooperative dining room could be established if the students so desire.

The rear of the premises is enclosed by a six-foot redwood fence, providing ample off-street parking space. A workshop and \$500 illuminated badminton court will eventually be constructed on one side of the back courtyard.

The prospective name of the dormitory is the Mustang House. It will be prominently displayed on the west end of the building by a seven foot green and gold sign.

Evans said that he will visit the campus dorms for ideas. He stressed the fact that he would appreciate and consider suggestions. "I want to provide what the college students want," he said.

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Collins Completes New Textbook On Sheep Raising

Spelman B. Collins, instructor in Cal Poly's animal husbandry department, has just written a text book entitled, "Profitable Sheep."

The book, which was 15 years in preparation, will be published by the MacMillan company and should be on the market by fall of 1955.

It was written as a high school or college text but it places its main emphasis on the practical approach to sheep raising. Although it is aimed at the person who has had little experience with sheep, it can be used as a reference by experienced wool growers.

Practical Approach

"As indicated by the title, 'Profitable Sheep,' its contents differ from the usual text in saying not so much just 'about sheep,' but how to do things with them to help make the business profitable," Collins stated.

Collins' experience with sheep covers a period of 30 years in which he has been engaged in the commercial business, the purebred business and in teaching. A graduate of California in 1925, he has taught at Cal Poly since 1940.

Cal Poly fat lambs under his direction, took five out of six grand championships last year.

He is at the present time honorary director of the California Wool Growers association and is vice president of the southwest counties division of this organization.

Johnson Illustrates

Richard F. Johnson, of the Cal Poly animal husbandry department, is doing the diagrams and illustrations and in the opinion of the author, should add greatly to its appeal and value.

The book will sell for five dollars. The publisher also anticipates a demand for it in the foreign market.

He is planning subsequent text on the purebred business and on the various lamb feeding enterprises.

Compromise: A deal in which two people get what neither of them wanted.—The Peninsula Light.



VISIBLE SHOCK WAVE . . . Aero students, using a Schlieren optical system, captured this actual photograph of shock wave created by gas being forced through a small supersonic wind-tunnel against the point of the wedge shaped model. Arrow at bottom of plate indicates direction of flow.

Shock Wave Photography Experiments Carried Out

To prepare the Cal Poly area student with the theory of supersonic flight, experiments have been conducted with a small single shot wind tunnel and an actual photograph of a shock wave has been produced. The tunnel was constructed in aero lab of an oxygen bottle, a plexiglass nozzle and diffuser. A Schlieren optical system was constructed using the double convex lenses, a mercury vapor bulb and knife edges fashioned from razor blades.

When the oxygen bottle is filled with clean dry air at a pressure of 120 pounds per square inch and the valve is opened to the test section, supersonic velocities occur in the diffuser of the apparatus. A model

resembling a screw driver is fixed just inside the diffuser section, and where the valve is opened a compression shock occurs on the point of the model.

In order to photograph a shock wave, a special type of optical system must be used to show the difference in density of the air where the shock wave occurs. This was accomplished by the Schlieren apparatus which has the effect of illuminating or strengthening light rays which are refracted when they pass through a shock wave, due to the change of density of air.

The velocity of the air at the point of the model was estimated to be approximately 1.5 times the speed of sound. The true value could not accurately be determined because pressure pickups had not been set in the diffuser when it was in operation.

The purpose of conducting the experiment was to check the quality of the Schlieren and photographic equipment and determine if such a tunnel would actually produce shock waves, which it did.

Lester Gustafson, head of the aero engineering department, says the small tunnel would be used to better acquaint the students with supersonic wind tunnels and is part of the ground work for a larger and higher speed tunnel that the students are designing. The shock wave image was enough to focus on the ground glass of a Speed Graphic camera that had the lens board removed. The tunnel was fired off again and the focal plane shutter was used to catch the shock wave when it occurred.

The photograph showed the occurrence of other phenomenon at supersonic speeds. Expansion shocks can be seen near the end of the diffuser and also air flow separating from the model on the top and bottom edges.

Gustafson says this is the first time that a shock wave has been photographed by the students in the aero department, and the results were remarkable because the students had had little experience with optical systems or photography previous to the test run.

Bikini bathing suit: Two dots and a dash.—R. F. E. Truzzell.

BENO'S
HEADQUARTERS FOR
LEVI'S

Engineers Added To Instructor Staff

Two new instructors in engineering and one in the liberal arts division have been appointed to the faculty at Cal Poly.

President Julian A. McPhee has announced that Lincoln D. Jones of Tucson, Ariz., and Jerry Dillion of Florin will teach engineering. Dr. Irving Sussman, Walnut Creek, will teach mathematics in the liberal arts division.

Jones was graduated from the University of Arizona. He also received his master's degree from the Arizona school. He taught three years at the University of Arizona and worked for a period for the Daimler company of Santa Clara, Calif. He will teach in the electrical engineering department.

Dillion is a 1954 graduate of Poly in electronics and radio. He has been active in amateur radio work and holds a general class amateur radio license and a commercial first class radiotelephone license.

Dr. Sussman attended Wesleyan university and later received a bachelor of science degree from Columbia university. His master's degree was received from John Hopkins university in 1947. He obtained his doctorate in 1953 from the University of California.

Dr. Sussman has taught at Ricker Junior college in Houlton, Me.; John Hopkins university, the University of Dayton, University of Arizona, St. Mary's college and the University of San Francisco.



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