

CAL POLY REPORT

California Polytechnic State University
San Luis Obispo, California 93407

November 30, 1978
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Aid fund drive in final push

The 1978 Aid United Givers campaign fund drive is in its final week. The drive officially closes Friday (Dec. 1). All campaign captains are urged to return their packets as soon as possible but no later than Friday (Dec. 1) at 5 pm. Individuals being contacted by area group captains are urged to be as generous as possible for this worthwhile campus drive. Cooperation with this endeavor is greatly appreciated.

Faculty/Staff pre-registration

Gerald N. Punches (Registrar) reminds all faculty and staff who plan to enroll for regular credit at Cal Poly for the 1979 Winter Quarter to bring their completed registration books to the Registrar's Office, Adm. 219, by Dec. 12 or earlier. Class cards and other registration materials must be picked up at the P.A. desk in the gym and fees paid before registration concludes on Jan. 3. Staff personnel who may be eligible for a tuition fee waiver should inquire at the Personnel Office, Adm. 110.

Small engine diagnostic clinic

Students in AE 124 (Small Power Units) will provide free diagnosis of small engines ailments (mowers, edgers, chainsaws, etc.) on Friday (Dec. 1) from 1 pm to 3 pm in Agricultural Engineering Shop #5. For further information call Jim Bermann at Ext. 2388.

GUIDE FOR SOLAR DESIGNERS BEING DEVELOPED AT CAL POLY

Help for building industry professionals involved in designing solar heated and cooled residences is being readied by a statewide group headed by two faculty members at Cal Poly. Philip Niles (Environmental Engineering) and Kenneth Haggard (Architecture) are preparing a workbook for use by the building industry under a \$60,000 contract between the California Energy Resources Commission and the Cal Poly Foundation.

Niles said the workbook will cover principles, design practices, design examples, and performance predictions for passive solar heating and cooling systems applicable to all of California. Haggard said the Energy Resources Conservation and Development Commission will publish the

workbook and make it available to engineers, architects, contractors, and others in California's building industry.

Niles underscored the use of the term "passive" in the project. He said passive solar systems are those that use on-site energy to achieve heating or cooling; rely on natural convection and/or radiation for heat transfer; and use traditional architectural components such as walls, roofs, etc., for collection and storage. Niles and Haggard were both members of a larger Cal Poly team that participated in design and construction of California's first passive solar residence in Atascadero in 1973 and are recognized as specialists in the use of solar energy in structures.

QUARTER BREAK WORK HOURS

Again this year, President Kennedy has approved working hours for this quarter break as 8 am to 4:30 pm with one-half hour for lunch. Modified hours will be in effect from Monday (Dec. 11) and normal working hours will resume (8 am to 5 pm, with one hour for lunch) beginning January 2.

Those offices which normally have public contact such as Business Affairs, the Personnel Office, the Reception Desk (Switchboard), Public Affairs, Admissions and Records,

Deans' and Vice Presidents' offices, etc. will be expected to provide at least a single person staffing until 5 pm to deal with any public contacts. This could be accomplished by establishing 8:30 am to 5 pm working hours for that limited group. Supervisors and department heads are reminded of their responsibility that employees under their jurisdiction fulfill an eight-hour day and a 40-hour work week.

Sale at El Corral

Faculty and staff are invited to attend the second annual Christmas discount sale Dec. 8, 9, 11, and 12 at El Corral Bookstore. During the sale El Corral will deduct 20% from the marked price of all merchandise in the store except: textbooks, tobacco and food items, typewriters, photo processing, calculators, calculator accessories, catalogs, class schedules, and special orders.

Discounted will be all other items on hand including trade books, gifts, supplies, art and technical equipment, jewelry, etc. Hours for the sale will be Friday (Dec. 8) 7:45 am to 4:30 pm, Saturday, (Dec. 9) 10:30 am to 2:30 pm, Monday and Tuesday (Dec. 11 and 12) 7:45 am to 4:30 pm. Sale merchandise will be limited to existing stock on hand with no refunds. El Corral will offer free gift wrapping with any purchase during the sale.

Students talk on holiday themes

Christmas, Chanukah, and the New Year will be the themes of an open house on Tuesday (Dec. 5) from 4 pm to 5 pm and Wednesday (Dec. 6) from 8 pm to 9 pm at which Cal Poly education students will present various teaching ideas based on themes of the holiday season. The open house in BA&E 13 will feature original and traditional teaching ideas for all areas of the elementary classroom.

The event will be presented by students enrolled in the "Organizing and Teaching Multiple Subjects" course and will be open to all interested educators, community members, and their children.



Hurwood will solo with singers

Mezzo soprano Bonnie Hurwood, guest soloist at The Cal Poly University Singers' concert on Saturday (Dec. 2) has gone from movies to symphonies in her singing career. Miss Hurwood, who has studied at the San Francisco Conservatory of Music and at California State University, Northridge, will be directed and accompanied on piano by John Russell (Music) conductor of the University Singers. Admission to the concert, which will begin at 8:15 pm in the Cal Poly Theatre, will be free and the public is invited.

Miss Hurwood gained experience as a performer early in her career singing background music for motion pictures. Since then she has appeared with such orchestras as the Los Angeles Philharmonic Orchestra, the Chicago Symphony, the Cleveland Symphony, and the Vancouver Symphony. She has also performed as soloist at several summer festivals including three sum-

mers with the San Luis Obispo Mozart Festival, most recently in the summer of 1977. During the past two years she has traveled extensively as soloist with the Roger Wagner Chorale throughout the United States and Canada.

Miss Hurwood's performance at Cal Poly will include three songs by Franz Schubert, two songs composed by Henry Purcell and arranged by contemporary English composer Benjamin Britten, and three songs by Gabriel Faure, a French romantic composer. She will also perform two works by Johannes Brahms written for viola, piano and mezzo soprano. The viola will be played by Loal Davis, also of Cal Poly's music faculty. The University Singers will add a seasonal touch to the concert with their performance of three Spanish Christmas carols by Francisco Guerrero. Five songs by Franz Joseph Hayden will round out the choir's performance.



Band-O-Rama recaps season

The annual Band-O-Rama concert is to the Cal Poly Mustang Marching Band what instant replays are to television football games. The fans have a chance to see what they missed or to enjoy a repeat performance. Those in either situation will enjoy the replays on Friday (Dec. 1). The concert will include the band's halftime repertoire from the 1978 football season plus selections by the University Jazz Band. Scheduled for 8 pm, the concert will be held in Chumash Auditorium.

The 129-member marching band is being directed by Roger C. Heath (Music) while Cal Poly's regular director of bands, William V. Johnson, is on a year-long sabbatical leave. The campus performance will include pop-

ular songs from the movies "Saturday Night Fever," "Thank God It's Friday," "2001: A Space Odyssey," and "Grease," and television's "Battlestar Galactica" series.

The University Jazz Band, directed by Graydon Williams (Music) will perform a variety of jazz numbers ranging from blues to bossanova and rock. Included in the six selections the band will play is "Forecast" by Howie Serguson, one of the top contemporary jazz composers, according to Williams. Tickets for the Band-O-Rama concert are available through band members and at the University Union ticket office. They are priced at \$1.50 for students and \$3 for the public.



Retirement coffee for Wiley

Barron Wiley (Education), whose service to Cal Poly began in 1956, will retire this Dec. The Education Department will host a coffee honoring Dr. Wiley on Monday (Dec. 4) from 3 pm to 5 pm in University Union 220. All faculty, staff, and emeriti are invited to come recognize Dr. Wiley's many years of service and to wish him well in his retirement.

Retirement coffee for Scott

All faculty, staff, and emeriti of the university are invited to a retirement coffee and cake reception in the Staff Dining Room on Monday (Dec. 4) from 2 pm to 4 pm to honor Chester H. Scott (Mathematics) who is retiring at the end of Fall Quarter. Professor Scott came to this university in 1952, and has completed 26 years of service. All those who have worked with Chester during his long tenure are invited to share refreshments and reminiscences with him.

Locker warning

All faculty and staff members having lockers in the Crandall Gym locker rooms and/or women's locker room in the Physical Education Building are reminded to return rented locks, clothing, towels; and to remove personal locks and items on or before the last day of classes - no later than Dec. 6. Failure to do so will necessitate the removal of lock and clothing from locker.

STAFF VACANCIES

Vacant support staff positions have been announced by Robert M. Negranti, Staff Personnel Officer. Descriptions of the positions and other vacancies are posted outside the Personnel Office, Adm. 110, Ext. 2236. Contact the Personnel Office to obtain an application. The University is subject to all laws governing Affirmative Action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendments Act and the Rehabilitation Act of 1973. All qualified persons are encouraged to apply.

Clerical Assistant II-A, \$364.50-\$435.50/month, Half-time, 10 month permanent position. Art Dept., School of Communicative Arts and Humanities. Duties: Typing general coursework, exams, purchase orders; duplicating and collating; assist with receptionist duties, selective admission procedures; mail distribution and ordering office supplies; other duties as directed. One year clerical experience, type 45 wpm and must have taken the General Clerical Test. Hours: 8-12 or as mutually determined. Closing date: 12-14-78.

FACULTY VACANCIES

Candidates for positions on the faculty of the University are presently being sought, according to Donald L. Shelton (Director of Personnel Relations). Those interested in learning more about the positions are invited to contact the appropriate dean or department head. This University is subject to all laws governing Affirmative Action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendments Act and the Rehabilitation Act of 1973. All qualified persons are encouraged to apply.

Lecturer, \$1900-\$2284/for two quarters, depending on experience and qualifications. Political Science Dept., Division of Social Sciences. Opening for part-time lecturer for Winter and Spring Quarters, 1979. Duty consists of teaching one three-unit introductory course in American Government each quarter. Ph.D. or M.A. required. Closing date: 12-17-78.

Two Assistant or Associate Professor positions & one Lecturer position, \$14,256-\$21,624 for academic year. Industrial Engineering Dept., School of Engineering and Technology. Available in Sept., 1979. Lecturer position to run for the 1979-80 academic year. Applicants should be capable in teaching production or manufacturing oriented courses as well as quantitative

FOUNDATION VACANCIES

The Foundation is accepting applications for the following open positions, as announced by J.L. Fryer, Personnel Officer. Interested applicants may apply at the Foundation Personnel Office, University Union Building Room 212, 546-1121. Cal Poly Foundation is subject to all laws governing Affirmative Action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendments Act and the Rehabilitation Act of 1973. All qualified persons are encouraged to apply.

Clerical Assistant II-A, \$729-\$871/month, High School Equivalency Program. Duties: Typing correspondence, reports, purchase orders and check requests. Maintaining permanent records and filing system. Duplication work on various office machines. Performing other related clerical tasks as required. Requirements: High School diploma or equivalency, some college preferred. One year clerical experience and typing 45 wpm. Ability to work independently, and in an organized manner. Bilingual (Spanish/English) preferred. Closing date: 12-14-78.

Custodian, \$729/month, two positions--one with shift differential, Food Service. General custodial duties. Requirements: One year of custodial experience in a large facility; minimum 8th grade education, high school graduate preferred; must be able to read and have knowledge of custodial methods and materials, follow oral and written instructions, supervise students; maintain and observe safe working conditions. Closing date: 12-14-78.



analysis oriented courses in undergraduate and master's level industrial engineering. Master's degree is required and Ph.D. highly desirable. Industrial experience is also desirable. Closing date: 1-15-79.

Assistant, Associate or Full Professor, \$14,256-\$27,348/year, dependent upon qualifications and experience, Computer Science & Statistics Dept., School of Science and Mathematics. Position available Sep., 1979. Duties include teaching lower, upper division courses and graduate courses. Ph.D. in Computer Science required, with preference given to those with experience in the areas of data management, systems programming, computer graphics, and/or computer applications. Closing date: 3-9-79.

Assistant or Associate Professor, \$14,256-\$21,624/year dependent upon qualifications and experience, Computer Science & Statistics Dept., School of Science and Mathematics. Position available Sep., 1979. Duties include teaching lower and upper division statistics courses. Ph.D. required, applicants must have a background in applied statistics, especially multivariate analysis or business-related statistics. Closing date: 3-9-79.

Lecturer, \$14,256-\$27,348/year, dependent upon qualifications, Business Administration Dept., School of Business. Opening effective Fall 1979 for academic year. Duties include teaching courses in Real Estate: Principles, Practice, Finance and Investment Analysis. Ph.D./ABD in Real Estate, practical experience desirable. Closing date: 2-15-79.

Lecturer, \$14,256-\$21,624/year, dependent upon qualifications, Management Dept., School of Business. Opening 1979-80 academic year. Duties include teaching Production & Operations Management, Industrial Management and Organizational & Management Theory and Business Strategy & Policies. Doctorate with major in Management, ABD's nearing completion are encouraged to apply. Experience in industry, government or management consulting and lecturing desirable. Closing date: 1-1-79.

Intermediate Vocational Instructor (Assistant Professor), \$14,256-\$17,136/year. Engineering Technology Dept., School of Engineering and Technology. Full-time position teaching lecture and laboratory courses in Manufacturing Processes and other mechanical areas. Successful applicants must have the theoretical knowledge

FACULTY VACANCIES (continued)

and practical skills to qualify for teaching set-up, operation, maintenance, analysis and design courses in Manufacturing Process (machine shop, basic forming and fabrication, numerical controlled machine programming and operation) as well as the basic mechanical courses such as statics and dynamics. Pertinent technical level industrial experience required. Master's degree in Engineering or Technology, teaching experience in Engineering Technology, and PE license given preference. Position available Sep. 1979. Closing date: 3-24-79.

Intermediate or Senior Vocational Instructor (Assistant or Associate Professor), \$14,256-\$21,624/year. Engineering Technology Dept., School of Engineering and Technology. Full-time position teaching lecture and laboratory courses in mechanical areas including some air conditioning and refrigeration. Successful applicants must have the theoretical knowledge and practical skills to qualify for teaching basic mechanics as well as some of the emphasis areas of industrial power plants, process instrumentation, fluid power, machine design, and air conditioning and refrigeration. Must qualify for and desire to teach a share of engineering graphics. Pertinent technical level industrial experience required. Master's degree in Engineering or Technology, teaching experience in Engineering Technology, and PE license given preference. Position available Sep. 1979. Closing date: 3-24-79.

Lecturer, \$14,256-\$21,624/year. Engineering Technology Dept., School of Engineering and Technology. Full-time position teaching lecture and laboratory courses in mechanical areas including some air conditioning and refrigeration. Successful applicants must have the theoretical knowledge and practical skills to qualify for teaching basic mechanics as well as some of the emphasis areas of industrial power plants, process instrumentation, fluid power, machine design, and air conditioning and refrigeration. Must qualify for and desire to teach a share of engineering graphics. Pertinent technical level industrial experience required. Master's degree in Engineering or Technology, teaching experience in Engineering Technology, and PE license given preference. Position available Sep. 1979. Closing date: 3-24-79.

Intermediate or Senior Vocational Instructor (Assistant or Associate Professor), \$14,256-\$21,624/year. Engineering Technology Dept., School of Engineering and Technology. Full-time position teaching lecture and laboratory courses in electronics. Successful applicants must have the theoretical knowledge and practical skills to qualify for teaching basic courses as well as some of the emphasis areas of communications, digital circuits, microprocessors, and mini-computers. Pertinent technical level industrial experience required. Master's degree in Engineering or Technology, teaching experience in Engineering Technology, and PE license given preference. Position available Sep. 1979. Closing date: 3-24-79.

Lecturer, \$14,256-\$21,624/year. Engineering Technology Dept., School of Engineering and Technology. Full-time position teaching lecture and laboratory courses in electronics. Successful applicants must have the theoretical knowledge and practical skills to qualify for teaching basic courses as well as some of the emphasis areas of communications, digital circuits, microprocessors, and minicomputers. Pertinent technical level industrial experience required. Master's degree in Engineering or Technology, teaching experience in Engineering Technology, and PE license given preference. Position available Sep. 1979. Closing date: 3-24-79.

Assistant Professor, \$14,256-\$17,136/academic year depending upon qualifications and experience, Psychology Dept., School of Human Development and Education. Position available for the 1979-80 academic year. Teaching assignments will include courses in introductory psychology, childhood disorders, and assessment of learning disabilities. Preference will be given to applicants with appropriate academic preparation and experience. Ph.D. required. Closing date: 3-1-79.

Lecturer, \$14,256-\$17,136/academic year depending upon qualifications and experience, Psychology Dept., School of Human Development and Education. One-year sabbatical replacement for the 1979-80 academic year. Teaching assignment will include participation in a team taught introductory course plus some combination of the following: social psychology, psychology of consciousness, and human factors and environmental psychology. Ph.D. required with preference given to those with teaching and related experience. Closing date: 3-1-79.

WHO...WHAT..WHEN...WHERE???

Helen P. Kelley, Art, has been appointed by the Professional Photographers of California to serve the fourth consecutive term on the Education Committee of Professional Photographers of California. The committee serves a dual purpose of furthering professional education in photography, and as a link between the professionals in the field and educational institutions.

Barbara P. Weber, Home Economics, has received word of her appointment to the Student Affairs Committee of the International Section of the American Home Economics Association. This nationwide committee is designed to encourage student interest in international involvement through membership in the International Federation for Home Economics.

Steven H. Yoneda, Physical Education, spoke to the Porterville Public School teachers during their in-service training day on the topic of "Injury Prevention," on Oct. 20.

Quintard Taylor, History, has written an article titled "Frente Negra Brasileira: The Afro-Brazilian Civil Rights Movement, 1924-1937" that has been accepted for the spring 1979 publication of *Umoja: A Scholarly Journal of Black Studies*.

Robert G. Reynolds, Art, is presently having a one-man art exhibition in Sacramento at Eaton's For The Collector. Over 60 works of art consisting of watercolors, acrylics and oils will be on display until Dec. 8. Eaton's is located in Town and Country Village in Sacramento.

Anthony E. Knable, Natural Resources Management, was recently appointed to the Rare and Endangered Species Committee, Western Division, The American Fisheries Society.

James Tseng, Electronic and Electrical Engineering, has been informed by Southern Methodist University that he has completed all requirements for the degree of Doctor of Philosophy in the field of Electrical Engineering.

Robert L. Cleath, Speech Communication, was a guest on the Nov. 27 Gary Randall (television) Show in Portland, Oregon. Dr. Cleath discussed the profile of view point held by contemporary college students.

November 30, 1978

DEPARTMENT OF ENERGY - DIRECT APPLICATION OF GEOTHERMAL ENERGY. The San Francisco Operations Office of the U. S. Department of Energy has issued a Program Research and Development Announcement on geothermal energy. The office desires to receive and consider for support proposals for engineering and economic studies of applications for direct heat utilization of hydrothermal resources. Primary interest under this program is for site specific studies dealing with industrial and agricultural processing, mineral extraction, and space/water heating and cooling for commercial and residential buildings. Program deadline is *JANUARY 16, 1979.*

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NASA-AMES. This consortium of 70 universities coordinates research and other interchange agreements between member institutions and NASA research facilities at Moffett Field. Cal Poly joined the Consortium in January of last year. Research at NASA-Ames is concentrated in Aeronautics, Astronautics, Life Sciences, and Social Sciences, and frequently involves multi-disciplined efforts. To be sponsored by NASA-Ames, projects must further NASA goals and benefit the applicant's university. They usually focus on a specific problem which can be effectively dealt with in a one-year timespace. Activities under the NASA-Ames Consortium emphasize collaboration between the academic institution and the research facility, and involve substantial federal involvement either in personnel, equipment, or both.

NASA-Ames projects are diverse. Aeronautics studies are investigating STOL and VTOL transportation (short/verticle take off and landing). Astronautics projects are especially multi-disciplinary, and are helping to bring the Space Shuttle into reality. Projects in Life Sciences involve the effects of space travel and aim at creating a safe environment in space, as well as investigating potential for the existence of life beyond the earth's atmosphere.

NASA-Ames offers no direct stipend. Rather, the university is reimbursed for any direct costs incurred when a faculty member participates in a NASA project. In contrast to the other programs mentioned above, NASA-Ames participants remain employees of their universities. Terms of each proposal are negotiated separately.

The principal mechanism for agreement is called the Joint Research Interchange. Last year over \$1,000,000 in research was supported through such agreements. Since the maximum allowable is \$20,000 for any one agreement, this amount suggests considerable activity through the consortium.

As a member of the NASA-Ames Consortium, Cal Poly is also entitled to borrow surplus research equipment from the facility. In the past, universities have, for the cost of shipping, borrowed such equipment as computers, spectrophotometers, shock tubes, and specialized glove boxes for periods of a year or more. For further information, contact the Research Development Office.

Proposals are normally written by both the faculty member and the researcher at NASA-Ames with whom he or she will collaborate. To initiate a contact, faculty members should review the document entitled "NASA-Ames Research Center: A General Guide to Research Programs" available in the Research Development Office. This brochure gives an overview of the programs current at the facility. Then a letter should be written to Roy H. Heidtmann, Executive Director of the Consortium, with an indication of the area of general interest and copy of the curriculum vitae. He can then put you in contact with an appropriate researcher.

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- * NSF - GUIDE TO PROGRAMS FOR FY 1979. NSF's newly published *GUIDE TO PROGRAMS FY 1979* provides summary information about NSF programs for the fiscal year 1979. It is intended as a source of general guidance for institutions and individuals interested in participating in these programs. Listings of the NSF programs describe the principle characteristics and basic purpose of each activity, eligibility requirements, closing dates where applicable, and the address from which more detailed information, brochures, or application forms may be obtained. The *GUIDE* is available for review in the Research Development Office.

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- * NSF - SPECIALIZED RESEARCH EQUIPMENT GRANTS. Individual research workers, research groups, engineering departments, and engineering colleges may submit proposals that are exclusively for research equipment to the NSF's Division of Engineering. Such proposals would not request funds for faculty, graduate students or other staff.

When specialized permanent equipment is required for the conduct of a proposed research project, principal investigators are encouraged by NSF to specify and request such equipment in their proposal. It is expected that proposers will make an effort to obtain some matching support from their university or other sources.

Awards for proposals received by *FEBRUARY 1, 1979*, will be announced by August 1, 1979. Awards for proposals received after February 1, 1979, but before August 1, 1979, will be announced by February 1, 1980. (78-55)

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UPCOMING DEADLINES - NATIONAL ENDOWMENT FOR THE HUMANITIES

FELLOWSHIPS DIVISION

		EARLIEST STARTING D
6/1/79	CATEGORY A - Fellowships for independent study and research for senior scholars and teachers.	1/1/80
4/1/79	SUMMER SEMINARS FOR COLLEGE TEACHERS	Summer 1979

RESEARCH DIVISION

3/1/79	GENERAL RESEARCH - supports collaborative or team research in all fields.	9/1/79
5/15/79	PUBLICATION PROGRAM - supports publication costs of significant manuscripts in the humanities.	9/1/79
3/1/79	RESEARCH COLLECTIONS - Supports efforts to organize collections of research materials to make them more available to scholars.	

YOUTH PROGRAMS DIVISION

5/15/79	YOUTHGRANTS - Allows young people to do their own work in the humanities.	9/1/79
2/1/79	NEH YOUTH PROJECTS - Grants for programs that	8/1/79
5/1/79	involve large numbers of children and teenagers in the humanities.	

OFFICE OF SPECIAL PROJECTS

3/1/79	SPECIAL PROJECTS - Grants in this area are for	5/1/79
6/1/79	experimental projects that seek new ways to	8/1/79
9/1/79	promote public understanding and appreciation of the	11/1/79
12/1/79	humanities.	2/1/80