

cal poly report



CALIFORNIA POLYTECHNIC STATE UNIVERSITY
SAN LUIS OBISPO, CALIFORNIA 93407

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March 10, 1977



WINTER CONCERT

cal poly symphonic band

The smell of "musical wildflowers" and a vicarious walk down a beach are two of the sensations to be conveyed during the 1977 Winter Band Concert at Cal Poly on Friday, (Mar. 11). Scheduled for 8:15 pm in Chumash Auditorium, the program will feature the Cal Poly Symphonic Band, University Winds, and Studio Band. The program of sensual music and commemorative pieces is being presented by the Music Department and the ASI. Tickets for the performance, at \$3 for adults and \$1.50 for students, are being sold at the University Union ticket office and by members of the performing groups.

The University Winds, a 45-member wind ensemble, will perform "Lincolnshire Posy," a collection of five songs described by composer Percy Grainger as a bunch of "musical wildflowers" that serves as a musical portrait of early English folksingers. The internationally recognized Symphonic Band will perform a variety of music that salutes the U.S. Navy Band, John Philip Sousa, and the New England seaside. "Rocky Point Holiday" by Ron Nelson is a piece that conveys the sound of crashing surf and bite of the salt air through extensive use of melodic percussion, according to William V. Johnson (Music) director of the three Cal Poly ensembles. Elliot A. Del Borgo wrote the "Commemorative Overture" to mark the 50th anniversary of the United States Navy Band.

"Golden Jubilee" is a different kind of salute. Written by John Philip Sousa, the March King, the piece celebrates Sousa's 50 years of conducting. "Toccata and Fugue in D Minor" is a composition written by Johann Sebastian Bach for organ. However, the piece has been transcribed for both symphony orchestra and concert band because of its breadth and magnificence, Johnson said. Pulitzer Prize-winning composer Howard Hanson wrote "Laude." The piece contains a chorale movement based on an old Swedish hymn Hanson sung in his youth.

TREE PLANTED TO HONOR DAVY

A Magnolia soulangeana has been dedicated to the memory of Harold P. Davidson, long time head of music programs at Cal Poly as part of the university's Arbor Day observance on Monday (Mar. 7). President Robert E. Kennedy dedicated the tree which was planted at the north side of the H. P. Davidson Music Center. During his long career at Cal Poly, Davidson developed an internationally recognized music program and originated statewide tours of Cal Poly musical groups and the traditional Home Concert featuring the Jazz Band and choral groups of the university.

IMPROVED CAMPUS MAIL SERVICE TIPS

Following are several steps suggested by Mail Center personnel to improve service:

The Mail Center sorts and delivers mail to departments, not to room numbers, therefore, we are asking that all campus mail be addressed to a person's name and his or her department. Campus envelopes are designed for this purpose.

When separating mail that is to be metered, remember that Los Osos and Baywood Park are considered local mail, not out of town.

Letters that have to be sealed should have their flaps out and not tucked under.

The postage machine seals envelopes that are size #10 or smaller. All other envelopes should be sealed before they reach the Mail Center.

Pre-stamped envelopes do not go through the postage machine, therefore, they should be sealed before they reach the Mail Center.

Foreign mail should be kept separate.

Manila envelopes should be addressed so that the clasp is on the right hand side.

Departments are asked to wrap their own packages and parcels whenever possible. Wrapping materials can be ordered as regular office supplies through the Warehouse.

All U.S. mail leaving San Luis Obispo is now sent to Goleta for sorting by the U.S. Post Office. The post office has informed us that Cal Poly must have its outgoing mail at the downtown post office no later than 5:40 pm in order for it to be included in the last trip for the day to Goleta. Mail received at the post office after the 5:40 pm deadline will be sent to Goleta the following day.

In order to comply with the U.S. Post Office's deadline, all first class outgoing mail must be deposited at the campus mail center or at the Administration Bldg. mail room at the latest by 5 pm. The mail will then be sorted and postage applied and delivered to the U.S. Post Office to meet the 5:40 pm deadline. First class mail deposited after 5 pm at these locations will not be processed until the next day and will not leave San Luis Obispo until the next afternoon. Anyone in the Mail Center will be happy to answer all questions concerning the above information.

UNIVERSITY LIBRARY SCHEDULE

On the last day of final examinations, Friday (Mar. 18) the Reference, Periodicals, Government Documents, Special Collections, and Learning Resources & Curriculum sections in the library will close at 5 pm. The Circulation area, Reserve Book Room, Room 207A, Duplication Room, and the lobbies will remain open until 7 pm. During the break period, March 19-27, the University Library will implement the following schedule:

Monday - Friday	8:00 am - 5:00 pm
Saturday - Sunday	Closed

Regular hours will be resumed on Monday (Mar. 28) the first day of classes of the Spring Quarter.

BOAT BUILDERS HAVE CONCRETE IDEAS

Most people believe that when concrete is placed in water it will sink. That notion will be torpedoed on Saturday (Apr. 2) when a different kind of regatta takes place at the Lopez Lake Recreation Area near Arroyo Grande. The concrete canoe race, officially called the 1977 West Coast Ferro-Cement Canoe Invitational Race, will be hosted by the Construction Engineering Association at Cal Poly. The day-long competition will match engineering schools from across the Southwest in a race against the clock and each other. Invitations have been sent to 30 universities and colleges in California, Arizona, and Nevada.

So far California State Polytechnic University, Pomona; San Francisco State University; University of Santa Clara; California State University, Los Angeles; and California State University, Chico, have accepted the invitation. Competition is expected to be intense as Cal Poly, San Luis Obispo, will be defending its title as over-all winner for the second year in a row. Other over-all winners have been San Jose State University; Stanford University; and University of California, Berkeley.

The race will begin at 10 am with classes for men and women students, and faculty and alumni crews. There will be several course lengths for each class. After a series of elimination heats, the top canoes will advance to the finals where the winners will be determined on the basis of points received in the various classes and heats. Trophies will be awarded to the first, second, and third place winners in the men's, women's, and faculty and alumni races. The West Coast race is sponsored by the San Diego International Chapter of the American Concrete Institute and the Pacific Southwest Region of the Portland Cement Association.

MAGAZINE PUBLISHERS WILL CONFER

"The most knowledgeable experts in the magazine field" will be on hand to advise and assist participants at the Western Magazine Publishers Conference at Cal Poly. The conference, on Thursday, Friday, and Saturday (Mar. 17-19) is expected to draw 200 people from across the Western United States to discuss problems in the field of magazine publishing.

Loren Nicholson (Acting Head, Journalism) coordinator of the event said, "The conference plans to present the most knowledgeable experts in the magazine field to serve as speakers and members on the seminar panels." The ten major seminars will include such topics as the editorial budget, publishing laws, magazine marketing research, circulation improvement, and the effects of computer modeling on the publishing industry.

Registration for the conference will cost \$165. Each additional reservation from the same company will be \$135. The fee includes payment for the ten seminars, lunch on Thursday and Friday, a dinner-dance on Thursday evening, and morning and afternoon coffees. Sessions and an exhibit center for the conference will all be located in the University Union. The conference is sponsored by the Journalism Department and the Western Publications Association. Further information about the event can be obtained by calling Ext. 2508.

Typewritten copy intended for the next issue of Cal Poly Report must be received prior to 12 noon on Tuesday (Mar. 15) in the Public Affairs Office, Adm. 125. Copy intended for Cal Poly Dateline is due in the Public Affairs Office by 12 noon on Wednesday (Mar. 16).

WELL-KNOWN MIME WILL TEACH AND PERFORM

Richmond Shepard, professional mime, author, actor, and director, will teach several workshops and perform at Cal Poly in a special two-day residency designed to expose the fascinating art of mime to the broadest possible range of students and public. Shepard, whose stay at Cal Poly will be sponsored by the Associated Students Fine Arts Committee, has scheduled workshops for Friday and Saturday, (Mar. 11 and 12) and a performance in the Cal Poly Theatre for Saturday (Mar. 12) at 8 pm. Tickets for the evening performance are \$3 for adults and \$2 for students. They are being sold at the University Union ticket office.

Shepard studied with famed mime Marcel Marceau in Paris in 1956, and returned to the U.S. to direct 14 off-Broadway shows. He has directed six short films and one feature. On television, he has appeared on the Merv Griffin, Steve Allen, Today, Dinah's Place, The FBI, I Spy, and That Girl programs among numerous others. Shepard founded the first mime troupe in the nation in 1952 and since then has taught at Princeton University; Dartmouth University; New York University; University of California, San Diego and many other institutions of higher learning. He is the author of the text, "Mime: the Technique of Silence."

AID/UNITED GIVERS DRIVE REPORT

President Robert E. Kennedy has announced that Cal Poly faculty and staff have contributed \$28,136.01 to San Luis Obispo County Youth and Service Agencies during the recently completed AID/United Givers Fund Drive. The total is \$739.29 or approximately 2% more than the amount contributed by University employees in the previous campaign. He emphasized that Cal Poly givers during the past eight years that the campaign has been conducted on campus have contributed more than \$186,000 to this worthwhile charity. President Kennedy expressed his appreciation to all Cal Poly personnel who so generously supported the United Givers Fund Drive.

Funds contributed in the campus fund drive are distributed by AID United Givers to non-profit youth and service agencies operating in San Luis Obispo County, including Achievement House, American Cancer Society, American Red Cross, Avila School for Functional Living for Handicapped Adults, and Boy Scouts of America. Also receiving funds from the drive are the Camp Fire Girls, Children's Home Society, Easter Seals Society, Family Services Center, Girl Scouts of America, Heart Association, Hotline, March of Dimes, Mental Health Association, Middlehouse, Muscular Dystrophy Association, Salvation Army, YMCA, as well as other charities specified by the donor.

TELEPHONE TRAINING SESSIONS PLANNED

Donald L. Shelton (Director of Personnel Relations) has announced, that with the cooperation of the Pacific Telephone Company, a telephone training session has been scheduled for users of campus telephones. John Brady, Service Advisor for Pacific Telephone Company, will conduct the one hour sessions. Two sessions have been scheduled: one for 9 am and one for 2 pm on Tuesday (Mar. 22) in the Agricultural Engineering 123.

Through the use of films, group questions and answer periods, demonstrations, telephone usage, telephone techniques, and telephone etiquette, all telephone procedures will be explored in depth. The film, "I Rather Like You, Mr. Bell," starring Bob Newhart, will be shown. It is suggested that work schedules be arranged so that employees who frequently use the telephones as a part of their normal duties can attend either the 9 am or the 2 pm session.

CAM REMINDER ON LETTERHEAD USE

A few inquiries regarding the appropriateness of using the Cal Poly official letterhead have been brought to the attention of the Public Affairs office, according to Lachlan P. MacDonald (Director, Public Affairs). MacDonald said individuals who wish to send letters to the editor of various publications or to write letters on official letterhead stationery of the University for other than official State business should refer to the Campus Administrative Manual, section 716, which states that such stationery shall be "authorized for official State business only."

"This question is frequently raised by those who receive such letters, rather than those who send them," MacDonald said. "There is a strong feeling on the part of some recipients that use of the State letterhead to provide advice or political endorsements or to conduct private business is especially offensive."

MacDonald said that those who inquire concerning this section of CAM are instructed to use personal stationery for such purposes.

COMPUTER BOOK PENNED BY HANNULA

A textbook explaining the intricacies of the IBM 360/370, one of the most popular computers on university and college campuses, has been written by a Cal Poly professor.

"System 360/370 Job Control Language and the Access Methods" by Reino Hannula, (Computer Science) provides an in-depth look at computer systems that many books only touch upon lightly. The author describes the book as having two main functions -- to adequately explain the instructions that regulate computer operations and to describe various ways of retrieving data stored in a computer.

Hannula feels he owes his students a great deal for the knowledge they have given him on the subject. The dedication of the new books says, "To the computer science students at Cal Poly, past and present, who have taught me so much." The 340-page volume was developed to give students and programmers who use the System 360/370 a more complete background in how the computer functions. It includes sample computer programs and appendixes for relating common computer languages to the instructions which perform actual computations.

SUBMISSION DEADLINES FOR PURCHASE REQUISITIONS

Submission deadlines for purchase requisitions chargeable to current year expiring appropriations are listed below. Requisitions must be in the Purchasing Office by the following dates:

March 15 - Electronic data processing equipment

March 31 - Communications equipment

April 15 - Non-contract supplies or equipment costing more than \$1,000

May 31 - Supplies or equipment costing less than \$1,000

Purchase requisitions received in the Purchasing Office after May 31 will be charged against 1977-78 funds.

Chargeback accounts for copying, duplicating and campus storeroom supplies will be closed out on May 25 for fiscal year 1976-77. Beginning May 26, all expenditures for these supplies and services will be charged to fiscal year 1977-78 funds. For additional information or clarification, please call the Purchasing Office at Ext. 2231.

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

Melvin George (Natural Resources Management) was senior author of two research papers presented at the annual convention of the Society for Range Management held in Portland, Feb. 14-17.

Robert J. Huot (English) represented Cal Poly at the 10th annual conference of the Medieval Association of the Pacific and a joint conference on Medieval Rhetoric, both at the University of Southern California, Feb. 24-26. The major address was given by Professor Gordon Leff, Department of Medieval History, York University in England.

Euel Kennedy (Mathematics) has been appointed study manager for the 1977 National Aeronautics and Space Administration - American Society of Engineering Education Summer Faculty Design Team. The design team, consisting of approximately 20 multidisciplinary members, will be assigned to the Johnson Space Center near Houston, Texas. This year's systems study will focus on positioning, joining, manufacturing, and assembling in space components for large lattice structures similar to those required for solar power satellites.

George H. McMeen (Mathematics) is a co-author of Basic Mathematics, American Book Company, 1977, a kindergarten-grade 8 elementary school mathematics series of texts and workbooks. While recently introduced, the series has already received several state and city listings. Written for children of average and below average abilities, the series features practice in keeping with current trends.

John E. Harrigan, Jr. (Architecture and Environmental Design) presented a workshop to members of the Santa Clara Valley, East Bay, and San Francisco Chapters of the American Institute of Architects titled "Human Factors Program for Architects, Interior Designers, and Clients." The workshop was held in Menlo Park, Feb. 18-20. Harrigan also participated in the 29th annual California and Pacific Southwest Recreation and Park Conference in Anaheim, Feb. 26-28. During the conference he participated in a panel discussion dealing with aspects of citizen participation.

Joseph C. Amanzio, David A. Brodie, Allan R. Cooper, Merrill C. Gaines, Leonard Haeger, Patrick Hill, George K. Ikenoyama, Paul R. Neel, Don Swearingen, and Carleton M. Winslow (all Architecture and Environmental Design) attended a follow-up on the retreat for faculty development during the afternoon of Feb. 25.

Robert Wolf (Mathematics) spoke at the Mathematics Logic Colloquium at the University of California, Berkeley, Feb. 18. His title was "Partially Intuitionistic Formal Set Theories."

Estelle Basor (Mathematics) spoke at the Mathematics Complex Variable Colloquium at the University of California, Los Angeles, Mar. 7. Her title was "Toeplitz Determinants and the Barnes G-Function."

Douglas D. Donaldson (Biological Sciences) attended the 8th annual joint conference of the Wildlife Society and American Fisheries Society in San Jose. Dr. Donaldson co-pressed over the conference as president of the Western Section of the Wildlife Society. The Western Section includes the geographic area of California, Nevada, Hawaii, and Guam.

C. Dean Piper (Head, Soil Science), Royce L. Lambert, Delmar D. Dingus, Thomas A. Ruehr, Gaston Amedee, and David B. Lesczynski (all Soil Science) attended the California Fertilizer Conference at Fresno, Feb. 17-18. The conference dealt with various aspects of California soil fertility problems and practices in addition to a first for California - a special symposium on liming of California soils. Dr. Ruehr presented a paper entitled "Phosphorus Fertilizer Programming."

PHOTOS AND GLASS ON DISPLAY

An exhibit of student-made glass sculptures and photographs is currently on display through Friday (Mar. 18). The works are being shown from 8 am to 5 pm in the Vestibule Gallery (Room 105) in the Air Conditioning Building. Admission is free and the public is invited to view the exhibit. All of the works exhibited were made by students taking glass blowing or photography classes in the Cal Poly Art Department.

Helen Kelley (Art) photography instructor, said her students' work shows "visual imagination, perception, and self-expression combined with the application of creative photographic techniques." Some of the techniques used to "express the emotions and perceptions" of her students are high contrast, solarization, and print toning.

The department's glass blowing instructor, George Jercich, explained that his students "use glass as a plastic material, to manipulate into various forms and to experiment with the varied aspects of transparency." The exhibit is part of a continuing series of displays sponsored by the university's Art Department.

GRASS SOD AVAILABLE

Sod to produce an "instant lawn" is now available at the Ornamental Horticulture Unit. Composed of a mix of one-half perennial ryegrass and one half Kentucky bluegrass, the sod is well adapted to the coastal climate of San Luis Obispo County. The sod will be cut thin so that it will root quickly. The sod is priced at 15¢ per square foot for amounts over 500 square feet, 17¢ for amounts 200 to 500 square feet and 19¢ for less than 200 square feet. Sod must be picked up in the field at the OH Unit. Call the unit at Ext. 2994 to place orders.

WEEKLY EL CORRAL FEATURES

El Corral announces a sale on children's books, from Mar. 7 to Mar. 11. All children's books in stock will be marked down 20%. El Corral has received a large shipment of records and 8-track tapes. Rock, pop, country and western and classical are available. Records are \$1.99 and tapes are \$2.99. This sale ends Mar. 26. El Corral has also come up with a few copies of the bestseller Roots.

FACULTY/STAFF PRE-REGISTRATION PLANNED

Gerald N. Panches (Registrar) reminds all faculty and staff who plan to enroll for regular credit at Cal Poly for the 1977 Spring Quarter to bring their completed registration books to the Registrar's Office, Adm. 219, by Monday (Mar. 21) 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 Mar. 25.

INSURANCE REP WILL VISIT CAMPUS

Ron Gifford, representative of Occidental Life of California, will be on campus Tuesday (Mar. 15) from 9:30 am to 12:30 pm to answer questions of employees on the Cal Western-Occidental basic and major medical health insurance sponsored by the Public Employees' Retirement System as well as the California State Employees' Association ordinary and term life insurances. Those interested in talking with him can contact him in the Adm. Building, Room 131. Appointments are not necessary.

CANDIDATES FOR FACULTY POSITIONS BEING SOUGHT

Candidates for positions on the faculty of the University are presently being sought, according to Donald L. Shelton, (Director, 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 Amendment Act. All interested persons are encouraged to apply.

Lecturer, (\$4524-\$5440/one quarter, depending upon qualifications), History Department, School of Communicative Arts and Humanities. Full-time leave replacement for Spring Quarter 1977 only. Duties include teaching general education courses in 20th century United States domestic history and recent foreign affairs. Preference will be given to those with teaching experience and a Ph.D. in History. Position available: 3/24/77. Closing date: 3/15/77.

Assistant Professor, (\$13,572-\$16,320, academic year, dependent upon experience and qualifications), Soil Science Department, School of Agriculture and Natural Resources. Duties: full-time position to teach Introductory Soil Science, with the potential to teach advanced courses according to the candidate's capabilities. The applicant should have a doctorate in area of specialization as well as teaching and production agriculture field experience. Position available: 9/77. Closing date: 5/1/77.

Assistant Professor, (\$13,572-\$16,320/academic year, depending on qualifications and experience), Child Development Department, School of Human Development and Education. Position available for the 1977-78 Academic Year. Candidates with the doctorate in Family Studies, Family Therapy, Marriage Counseling or a closely related field, with university level teaching proficiency in the family area, and with marriage and family counseling experience are required. Duties and responsibilities will include teaching undergraduate and graduate courses in Family Studies and supervising student interns in the family field. Closing date: 5/15/77.

Assistant Professor, (\$13,572-\$16,320/academic year), Agricultural Management Department, School of Agriculture and Natural Resources. Duties: To help in overflow teaching of two or three subjects. More stable course assignments will occur as need and teaching expertise adjust. A Master's Degree is essential and a doctorate is desired. Training and experience may be in agricultural economics or business administration. Agricultural experience needed. Position available: 9/77. Closing date: 5/1/77.

Assistant Professor, (\$13,572-\$16,320/academic year), Agricultural Management Department, School of Agriculture and Natural Resources. Duties: specialize in agricultural labor. A Master's Degree is essential and a doctorate is desired. Training and experience may be in agricultural economics or business administration. Agricultural experience is needed. Position available: 9/77. Closing date: 5/1/77.

Lecturer, (\$2,714-\$3,264/academic year, 20% teaching load), Agricultural Management Department, School of Agriculture and Natural Resources. Duties: Specialize in agricultural law, teaching one three-unit course each quarter. A juris doctorate desired. Agricultural experience is needed. Position available: 9/77 for one academic year. Closing date: 5/1/77.

Lecturer, (\$905-\$1088/quarter, depending upon qualifications), Spring Quarter, part-time position, Journalism Department, School of Communicative Arts and Humanities. Faculty position teaching 3-unit course in Magazine Publishing. Must have B.S. Degree plus experience in magazine publishing. Closing date: 3/18/77.

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SUPPORT 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. Applications shall be on official forms. Contact the Personnel Office to obtain an application. 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. All interested persons are encouraged to apply.

Departmental Secretary I-B, (\$376-\$449.50/month), Environmental Engineering Department, School of Engineering and Technology. Half-time position. Duties: typing, dictation, duplicating, receptionist, answering telephone, student payroll, maintain department files and must be able to work with limited supervision. Requirements: high school graduate, type 45 wpm, shorthand 90 wpm, three years clerical experience and must have taken the General Clerical Test. Position available 5/2/77. Closing date: 4/14/77.

Supervising Account Clerk I, (\$919-\$1102/month), Financial Operations, Business Affairs Division. Duties: supervise cashier functions, receipting all monies paid to University, prepare staff and student payrolls, organize, direct and reconcile cashier operations. Requirements: high school graduate, four years experience in difficult financial record keeping with one year supervising experience. Must have thorough and skillful knowledge in performing and organizing financial record keeping work and in compiling reports; ability to handle correspondence independently and operate various office appliances. Position available approximately 4/4/77. Closing date: 3/17/77.

Clerical Assistant II-A or II-B, (\$673-\$859/month), Mathematics Department, School of Science and Mathematics. Duties: include typing, taking dictation from faculty members, receptionist, maintaining files and various other clerical functions. Requirements: high school graduate, 1 year of clerical experience, type 45 wpm, shorthand 90 wpm, and must have taken the General Clerical Test. Working hours: Monday thru Thursday from 12 p.m. to 9 p.m. and Friday from 8 a.m. to 5 p.m. Closing date: 3/17/77.

Veterinarian II, (\$1695-\$2045/month), Veterinary Science Department, School of Agriculture and Natural Resources. Duties: plan, organize and direct animal health programs, involving fertility, maternity, pediatrics and preventive medicine; treat sick and injured animals; perform surgical operations and other duties as required. Requirements: graduation with a Doctor of Veterinary Medicine Degree and must be licensed and federally accredited to practice clinical medicine in the State of California with three years of consecutive experience in the practice of Veterinary Medicine under an official state veterinary licensure requirement. Position availability contingent upon approval of the 1977-78 budget. Closing date: 4/29/77.

Maintenance Mechanic, (\$1253-\$1375/month), Engineering Services Section, Business Affairs Division. Duties: ability to determine failures in systems, plan corrective action and make required repairs; estimate and requisition materials and supplies, keep records and prepare reports. Requirements: high school graduate, 3 years journeyman experience in field or military training in mechanical area with 3 years experience at E-5 pay rate; must have knowledge of methods, materials and equipment used; understand safety orders of CAL/OSHA and must have superior mechanical ability. Work hours: 8:00 a.m. to 4:30 p.m. Closing date: 3/31/77.

(Continued on page 10)

OFF-CAMPUS POSITION VACANCIES

Information on the administrative position vacancies listed below can be obtained from the Placement Office, Adm. 213, ext. 2501:

Illinois State University - President. Earned doctorate or equivalent educational background required; previous successful administrative experience and demonstrated competency to work with all segments of society desired. Deadline: April 30, 1977.

California State University, Northridge - Executive Assistant to the President (\$24,852 - \$30,024). Earned doctorate or equivalent required; previous administrative experience preferred. Deadline: April 15, 1977.

San Jose State University - Executive Vice President (\$31,896 - \$38,592). Ph.D. and successful administrative experience desirable. Deadline: April 8, 1977.

FACULTY VACANCIES...(Continued from page 8)

Lecturer, (\$13,572-\$16,320/academic year), Agricultural Management Department, School of Agriculture and Natural Resources. Duties: Specialize in agricultural business organization for an instructor on leave. A Master's Degree is essential and a doctorate is desired. Training and experience may be in agricultural economics or business administration. Agricultural experience is needed. Position available: 9/77 for one academic year. Closing date: 5/1/77.

Lecturer, (\$13,572-\$16,320/academic year), Agricultural Management Department, School of Agriculture and Natural Resources. Duties: Specialize in agricultural sales for an instructor on leave. A Master's Degree is essential and a doctorate is desired. Training and experience may be in agricultural economics or business administration. Agricultural experience is needed. Position available: 9/77 for one academic year. Closing date: 5/1/77.

Lecturer, (\$13,572-\$16,320/academic year), Agricultural Management Department, School of Agriculture and Natural Resources. Duties: Specialize in agricultural managerial accounting for an instructor on leave. A Master's Degree is essential and a doctorate is desired. Specialization should be in accounting in the general fields of agricultural economics or business administration. Agricultural experience is needed. Position available: 9/77 for one academic year. Closing date: 5/1/77.

STAFF VACANCIES...(Continued from page 9)

Clerical Assistant II-B, (\$719-\$859/month), General Office, Business Affairs Division. Duties include typing, taking machine dictation, Xeroxing, and general office support for all campus areas. Substituting in other offices for absent secretaries is a major part of the duties. Requirements: high school graduate, one year of clerical experience, type 45 wpm, shorthand 90 wpm, and must have taken the General Clerical Test. Ability to adapt to new situations is highly desirable. Closing date: 3/17/77.

CHARLIE MENDENHALL DIES

Charlie E. "Charlie" Mendenhall, 56, died Wednesday (Mar. 9) morning after suffering a heart attack the previous day. An agriculture alumnus of Cal Poly who had served as farm editor of the Modesto Bee, Mendenhall joined the Cal Poly staff in 1967, serving as Agricultural Information Specialist, Alumni Services Coordinator, and ASI Information Officer. He was past president of the Cal Poly Chapter of the California State Employees Association and of the Cal Poly University Club.

encouraging notes

March 10, 1977

THE WASHINGTON SCENE: Robert Lucas, Coordinator, Research Development, will be in Washington, DC, from April 18-22. During that time, he will be meeting with various program officers in federal agencies to determine new priorities and emphases for funding. He would also like to explore specific ideas for funding. If you have an idea for an activity that you would like to have federal sponsorship for, please send Dr. Lucas a prospectus by Wednesday, *April 6*, and he will arrange to meet with the appropriate program officer in Washington.

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APPROPRIATE TECHNOLOGY - AN URGENT MESSAGE: An outside board for Appropriate Technology has recently been established in conjunction with the Agency for International Development. Its relationship to AID is not entirely clear, nor is its mission. But it will soon receive \$1,000,000 to spend on the development of "appropriate technologies" (i.e., intermediate technologies) for less well-developed countries.

Since the Board is not yet fully functioning, our Washington office plans to meet with representatives of this group to inform them about the capabilities of CSUC schools. It would be advantageous for anyone interested in the development of appropriate technologies to have a one-page prospectus available to influence the Board's directions. If you have ideas that you would like to bring to the Board's attention, bring them in writing to the Research Development Office, 317 Administration, by 5:00 p.m., Tuesday, *March 15*, for forwarding to Washington.

You may, if you like, send them directly to our Washington office in care of:

Sheppie Abramowitz
California State University & Colleges
1225 Connecticut Avenue, NW - Suite 409
Washington, DC 20036

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FULBRIGHT-HAYS OPENINGS, 1978-79. Awards are to be available for university teaching and advanced research in nearly 90 countries during 1978-79. The program offers opportunities in a broad spectrum of fields. Awards for activities in more than a single country have increased in numbers, as have travel-only awards for applicants with financial support from sources other than the Fulbright program. A number of award opportunities are unrestricted as to subject field but most are earmarked for a discipline; some are described in considerable detail. Further information is available in Administration 317.

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USOE - EDUCATIONAL BROADCASTING FACILITIES APPLICATIONS. The Office of Education has announced *April 25, 1977*, as the deadline for submitting applications for fiscal 1977 educational broadcasting facilities grants. Amendments to deferred applications accepted for filing in a previous fiscal year are also being accepted under the program. Application forms may be obtained from the Educational Broadcasting Facilities Program, Bureau of Elementary and Secondary Education, Office of Education, 400 Maryland Avenue, SW, Regional Office Building #3, Room 3122A, Washington, DC, 20202.

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WOMEN'S EDUCATIONAL EQUITY ACT - FIRST ANNUAL REPORT. A copy of the WEEA's First Annual Report is available for review in Administration 317.

The WEEA authorizes the support of an extremely broad range of activities that target on every area of education that perpetrates sex bias, and thereby opens many avenues to carry out the purpose of providing educational equity for women. The activities include: the development, evaluation, and dissemination of curricula, textbooks, and other educational materials; preservice and inservice training for educational personnel, including guidance and counseling personnel; research, development, and other educational activities designed to advance educational equity; guidance and counseling activities, including the development of tests which are nondiscriminatory on the basis of sex; educational activities to increase opportunities for adult women, including continuing educational activities and programs for underemployed and unemployed women; and the expansion and improvement of educational programs and activities for women in vocational education, career education, physical education, and educational administration.

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NSF - UNSOLICITED RESEARCH PROPOSALS DUE IN BIOCHEMISTRY PROGRAM. The Biochemistry Program will support research in the molecular mechanisms of biological cognition, catalysis, and control; and in the assembly and function of supramolecular complexes of proteins, nucleic acids and lipids. DEADLINE: *May 1, 1977.*

For further information and guidelines, contact: Dr. Walter Bonner, Program Director, Biochemistry Program, Biochemistry and Physiology Section, Division of Physiology, Cellular and Molecular Biology, National Science Foundation, Washington, DC, 20550.

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NSF - RESEARCH IN SCIENCE EDUCATION (RISE). The objectives of this program are to summarize and critically evaluate existing research results, to support research projects in areas of importance to the science education and science education research communities, and to aid in the identification and definition of emerging research problems. Information contained herein describes the first phase of this research program. The first phase goals are: (1) to generate valid information and a rational system of analysis through which areas of needed research may be identified, (2) to encourage and facilitate more effective use of existing research results, (3) to advance science education through the support of research projects, and (4) to encourage exploratory research through a program of small grants. DEADLINE: *April 22, 1977.*

Awards will be made in three categories to achieve the goals stated above.

CATEGORY I: Research Evaluation and Identification
CATEGORY II: Research Studies
CATEGORY III: Exploratory Research

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NSF - INTERNATIONAL TRAVEL SUPPORT PROGRAM. International travel grants are awarded to assist U. S. scientists to go abroad to: (1) attend international scientific congresses and meetings; (2) obtain or exchange science information or information relating to international scientific programs and associated activities; and, (3) cooperate in international scientific activities. Travel to Canada and Puerto Rico are excluded from this program support. *NO DEADLINE.* (NSF F-36)

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NSF - ANTARCTIC RESEARCH. Proposals for Antarctic field work in the 1978-79 austral summer and the 1979 austral winter must be submitted to National Science Foundation by *June 1, 1977*. Under this program, academic institutions and non-profit research organizations may submit proposals for grants or contracts.

Research areas of interest include: effect of Antarctica on global weather and climate; global pollution and atmospheric mixing; interaction of Circumantarctic Current with adjacent oceans; physical, chemical, and biological interactions with adjacent water masses; volume, growth and contraction of the ice sheet; physiological processes in low temperature ecosystems; interrelationships of marine animal and plant species; adaptation of isolated human groups; solar flux effects of near-earth environment; potential harvesting of Antarctic food chains; and geological exploration and assessment.

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NEA - PHOTOGRAPHERS' FELLOWSHIPS. Fellowships are available to enable photographers to set aside time and/or purchase materials and generally to advance their careers as they see fit. Still photographers of exceptional talent, of any age or aesthetic persuasion (but not students) are eligible. DEADLINE: *April 1, 1977*.

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NEA - ARCHITECTURE AND ENVIRONMENTAL ARTS PROGRAM

Academic and Professional Research Program - Grants are available to assist exploratory activity in design. This program emphasizes design as an aesthetic concern and not technological projects. Highest priority is given to projects that show promise of significantly influencing the future of our surroundings. Also considered are projects that seek to extend the state of knowledge in the design field, assuming current design approaches. Proposals in any of the following professional areas are appropriate: architecture, landscape architecture, urban design, city and regional planning, graphic design, interior design and industrial design. DEADLINE: *May 6, 1977*.

Assistance to State Art Agencies Program - Matching grants are available to assist design programs conducted or initiated by state arts agencies or regional arts groups. These grants will give state arts agencies and regional arts groups the opportunity to expand the audience for good design; promote increased citizen awareness and participation; initiate state agency activity in architecture and related design fields; engage in projects of statewide significance; and stimulate interest in research which addresses particular local design needs and opportunities. DEADLINE: *May 6, 1977*.

Public Education and Awareness Program - Grants are available to assist projects which will broaden public design awareness and participation in resolving design issues. The improvement of our country's physical fabric depends upon awareness, concern, and participation of all citizens. Daily, citizens are confronted with decisions which have important design consequences: consumers in their choice of goods and services, clients in working with professional designers and persons engaged in the building industry. This program provides assistance to projects which provide information on design issues; advance public appreciation of beauty in the man-made world; and provide assistance to groups or individuals as they seek ways to improve the quality of their surroundings. DEADLINE: *May 6, 1977*.

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OSMOSIS MEMBRANE DEVELOPMENT. Development of high salt rejection reverse osmosis membranes is sought by Office of Water Research and Technology. Write: U. S. Department of Interior, OWRT, 18th and C Streets, NW, Washington, DC, 20240. Reference: RFP 14-34-0001-7529, *due date not furnished*.

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NEH - PILOT GRANTS. The purpose of a Pilot Grant is to allow an institution to test a new set of humanities courses before making a substantial commitment to the new program in terms of staffing and allocation of other resources. Pilot grants support those activities necessary to implement the testing of new humanities courses in the curriculum. Workshops for faculty to engage in the final planning of course content, released time for faculty to teach the new courses, and the hiring of consultants to evaluate the new program are the kinds of activities supported under Pilot Grants.

For projects beginning after September 1977, applications should be postmarked no later than *April 15, 1977.*

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TRAINING GRANTS FOR CHILD WELFARE. Applications for training grants for personnel in the field of child welfare must be submitted to the Social and Rehabilitation Service by *May 1, 1977.* Three types of grants are available under this program, including: (1) teaching grants to institutions of higher education for developing and improving educational programs and resources for preparing personnel for work in child and family welfare; (2) traineeship grants to institutions for providing financial support to students preparing for work in this field; and (3) short-term training grants to institutions for increasing the competence of personnel currently employed in this field. For further information and application forms, write: Division of Project Grants Administration, Social and Rehabilitation Service, Room 4200/C, 330 C Street, SW, Washington, DC, 20201. (Telephone: Dr. F. Pauline Johnson at 202/245-0504).

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USOE - CAREER EDUCATION ASSESSMENT. To demonstrate the best career education programs and practices, U. S. Office of Education is seeking information about such activities which have already been objectively evaluated. Work will involve: (1) establishing criteria to help identify evaluation reports, which will then be examined; (2) preparing analysis of problems and procedures in evaluating career education activities, in order to assist evaluators at the local level; (3) preparing evaluation designs on five selected career education activities for local schools which may wish to use them; and (4) preparing descriptive materials on ten activities which have been evaluated and which show positive evidence of effectiveness. For further information, write: USOE, Grant and Procurement Management Division, Headquarters Procurement Branch, Room 5715, ROB 3, 400 Maryland Avenue, SW, Washington, DC, 20202, Attention: A. Smith, Reference: RFP 77-25.

DEADLINE: *April 1 (tentative)*

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NEH - CHALLENGE GRANTS. The National Endowment for the Humanities' CHALLENGE GRANTS have been authorized as a part of the 1976 amendment to the National Foundation on the Arts and Humanities Act to help humanities institutions improve their financial stability by stimulating new or increased support from the public.

Congressional action for the funding of the CHALLENGE GRANT program is not expected before the spring of 1977. However, to enable potential applicants to begin planning, a brochure containing general information and preliminary guidelines are now available. The brochure and guidelines may be received by contacting: NEH Challenge Grants - Inquiries, MS-800, National Endowment for the Humanities, Washington, DC, 20506.

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