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AFFIRMATIVE ACTION PLAN APPROVED BY FEDERAL GOVERNMENT FOR CAL POLY AND C.S.U.C. SYSTEM

The Federal Government has approved the Affirmative Action Plan for California Polytechnic State University. President Robert E. Kennedy received word Dec. 1, from Floyd L. Pierce, Director, Office for Civil Rights, Region IX, that the Cal Poly plan has been reviewed and that it satisfies Federal Affirmative Action Compliance requirements. The plan was submitted to the Office for Civil Rights of the Department of Health, Education, and Welfare early in Nov. along with programs for the other 18 campuses of The California State University and Colleges as well as for the Office of the Chancellor. Under Federal regulations an approved affirmative action program is a requirement for educational institutions receiving Federal grants.

Cal Poly's Affirmative Action Plan restates the University's commitment to recruit, hire, train, and promote persons in all job classifications without regard to race, color, religion, age, sex, national origin, veteran status, or handicap, and to base all employment decisions on the principle of furtherance of equal employment opportunity. Dr. Kennedy pointed out that Cal Poly prepared its first Affirmative Action Plan in February, 1972. The plan was subsequently revised in July 1973 and a new plan forwarded to HEW in Oct. 1976.

The Affirmative Action Plan contains a set of detailed goals and timetables for the employment of women and ethnic minorities. These goals and timetables reflect a campus-wide under utilization analysis based upon national data and criteria provided by HEW. The plan reflects goals developed for faculty personnel at the departmental level and for support staff personnel on a university-wide level according to broad functional, occupational categories defined by HEW.

Cal Poly's approved Affirmative Action Plan establishes for the academic area a goal of 19 additional male minority members and 31 additional women faculty members over a three-year period ending September, 1979. Staff support goals are divided into six categories: (1) executive, administrative and managerial, (2) professional non-faculty, (3) secretarial and clerical, (4) technical and paraprofessional, (5) skilled crafts, and (6) service and maintenance workers. The goals for support staff over a two-year period ending September, 1978, include 12 additional male minorities and 27 additional women support staff members.

Donald L. Shelton (Director, Personnel) said copies of the Affirmative Action Plan are available in each Vice President's office, school dean's office, Public Affairs, the University Library, Affirmative Action Office, in the Staff Senate office and the Academic Senate office and from each member of the Affirmative Action Compliance Committee.

(continued on page 2)
CHRISTMAS/NEW YEAR'S EVE DAYS OFF

In view of the fact that both Christmas Day, 1976 and New Year's Day, 1977 fall on Saturday, Governor Edmund G. Brown, Jr. has issued a policy recommending that as many state employees as possible be allowed the full day off Friday (Dec. 24) and Friday (Dec. 31). Those two days are both academic holidays.

Employees who may be required to work on Friday (Dec. 24) and/or Friday (Dec. 31) will be granted equivalent informal time off prior to June 30, 1977. Likewise, employees who are required to work on Saturday (Dec. 25) and/or Saturday (Jan. 1) will be granted equivalent time off prior to June 30, 1977. The equivalent time off under this policy shall be at straight time unless the employee's actual time worked is in excess of 40 hours for the week, in which case the regular overtime policy will apply.

AFFIRMATIVE ACTION PLAN . . . (continued from page 1)

In recognition that Affirmative Action is a continuing process, President Kennedy has referred the Affirmative Action Plan to the CPSU Affirmative Action Compliance Committee for its review and study. He has asked that on-campus hearings be conducted and the committee provide him with its comments and recommendations by Mar. 1. Members of the Affirmative Action Compliance Committee are:

Laverne Bucy       David Grant       Jack Rapp
Sara Burroughs     Kathleen Lamoree  Ruth Spencer
Don Cheek          Alice Loh         Nick Vleisides
Delmar Dingus      Ed Mayo           Leonard Wall
Dave Focht         Ernie Miller      Smiley Wilkins
Jack Fryer         Rey Pena

President Kennedy noted that "Our continued progress in the area of Affirmative Action depends heavily on the full and effective employment of qualified persons regardless of race, age, color, religion, sex, national origin, veteran status, or handicap. We have an enduring legal and moral obligation to hire and promote the best people we can find—using our judgment on their job-related qualification. I charge you, as supervisors, with the responsibility that all matters related to these activities be free of discriminatory practices."

President Kennedy also noted that those involved in completing the Affirmative Action Plan included: Dale W. Andrews (Executive Vice President), Hazel J. Jones (Vice President for Academic Affairs), Everett M. Chandler (Dean of Students), Donald L. Shelton (Director, Personnel), Smiley E. Wilkins (Affirmative Action Coordinator), all school deans and division heads, and Computer Center personnel.

Commenting on the Federal approval of all programs submitted by the system, Chancellor Dumke said, "Our campuses have progressed remarkably to make their hiring and promotion practices inclusive of all qualified individuals. Approval of affirmative action programs is a major step in bringing employment equality closer to reality."

Although separate plans were prepared for each campus, a decision was made last summer to seek systemwide approval by working with HEW's Office for Civil Rights on the compliance project. Collectively, the 20 CSUC programs cover approximately 36,000 administrative, faculty, and support staff, including foundation and auxiliary organization employees. This includes 2,036 Cal Poly employees.
TRUSTEES' ACTIONS REPORTED

The Board of Trustees of The California State University and Colleges took the following actions at its meeting on Dec. 1:

Approved a 1977-78 budget request to the Governor and Legislature to provide salary increases for faculty and other academic employees of 8.5 percent and, in addition to this amount, requested equity adjustments for full professors, deans, vice presidents, and related classes to bring their salaries to a level reflecting a 1976-77 salary increase of 4.3 percent (these groups received less than 4.3 percent in 1976-77 due to the $70 per month granted to all employees); further requested funds to provide fringe benefit improvements equivalent to those granted other state employees, including a dental plan.

Approved a 1977-78 budget request to provide salary increases for administrative, support staff, and other nonacademic employees ranging from approximately 5.0 to 15.0 percent; shift differentials to support a 7 cent per hour increase; and fringe benefit improvements equivalent to those granted other state employees and including, if possible, a dental plan.

Amended Title 5, California Administrative Code to delegate authority to the Chancellor to establish grievance procedures for nonacademic and administrative employees.

Named a project architect for the Mustang Stadium Renovation at California Polytechnic State University, San Luis Obispo; and a project engineer for Utilities 1977 at San Diego State University.

POLY COWS GIVE THEIR ALL

The herd of Holstein-Friesian dairy cattle at Cal Poly has the highest milk production record of any college- or university-owned Holstein herd in the nation. Harmon Toone (Head, Dairy and Poultry Science) said the Holstein-Friesian Association of America has just released figures which indicate the 54 milking cows in the Cal Poly Holstein herd averaged 20,597 pounds of milk and 719 pounds of butterfat in a 305-day lactation period. There are 67 registered Holstein-Friesian herds owned by universities or colleges in the nation which participate in the dairy herd improvement registry test program.

The herd at Iowa State University was the second high herd in production in the nation among university- and college-owned registered Holsteins. The Cal Poly herd production ranks fourth in California among all herds of 50 or more Holstein milking cows. Toone points out the Holstein herd is one of three registered dairy cattle herds maintained by the university, through its foundation operation, to augment the instructional program in dairy science. The three herds are maintained by students working under the supervision of one full-time herdsman.

The Cal Poly Holsteins, which have had a noted national reputation for more than 40 years, recently were classified earning a herd average score of 84.5. The herd contains four excellent cows, 20 very good cows, 21 good plus cows and six good cows under the official classification standards of the breed association. The Cal Poly herds provide practical and laboratory experience in herd management, milk production, purebred herd management, and selection and pedigree course work for the 107 majors in dairy science.
CHRISTMAS FOOD SERVICE OPEN HOURS

Everette S. Dorrough (Director, Foundation Food Services) has announced the following hours for food service facilities during the holiday period:

Vista Grande Cafeteria - Closed after Lunch, Friday, December 10th
Reopens for Breakfast, Wednesday, January 5th at 7 am

Vista Grande Restaurant - Closed Sunday, December 12th through Saturday, January 1st
Reopens Sunday, January 2nd at 11 am

Snack Bar - Closed at 1 pm, Saturday, December 11th
Reopens Monday, January 3rd at 7 am

Burger Bar - Closed Sunday, December 12th through Saturday, January 1st
Reopens Sunday, January 2nd at 12 noon

Ice Cream Parlour - Closed Friday, December 10th through Sunday, January 2nd
Reopens Monday, January 3rd

Student Dining Room - Closed after Dinner, Saturday, December 11th through Tuesday, January 4th
Reopens Wednesday, January 5th at 6:30 am

Sandwich Plant - Closed Saturday, December 11th through Tuesday, January 4th
Reopens Wednesday, January 5th

Staff Dining Room - Open 7 am to 4 pm Monday through Thursday,
Closed all day Friday, December 24th and Friday, December 31st
Reopens Monday, January 3rd at 7 am

Vending Administration Building and Cellar - Same as Staff Room

SWINE FLU CLINIC A SUCCESS

The vaccination clinic for the "swine flu" held on November 9 and 10, succeeded in immunizing over 3,000 students, faculty, and staff. According to David E. Graham (Health Center), "The success of the Clinic can be contributed to the hard work of organizing the project by Tom Collins and others in the Health Center who assisted him, the Health Center staff who spent part of their day at the Clinic and the rest of the staff who "carried on". But the people who should be congratulated are those volunteers who provided needed and valuable clerical help. Members of the service sorority, Gamma Sigma Sigma; the service fraternity, Alpha Phi Omega; and members of the Health Center Auxiliary of the Cal Poly Wives' Club who donated their time and talents in order to make the program as successful as it was.

EL CORRAL FACULTY AND STAFF SHOPPING DAYS

El Corral Bookstore will hold its annual faculty and staff shopping days Monday and Tuesday (Dec. 13 and 14) from 9 am to 4 pm. The selection of gift items is excellent this year and the staff hopes all will have a festive time browsing through the special display. The staff is looking forward to greeting you again this year with some delightful decorations. Refreshments will be served to all and, as always, there is free gift wrapping.
ARCHITECT APPOINTED FOR MUSTANG STADIUM RENOVATION

An architectural firm has been appointed to draw plans and bid specifications for the renovation of Mustang Stadium. Appointed by the Board of Trustees of the California State University and Colleges was the firm of Keeble and Rhoda of Monterey. "This action by the Board of Trustees will move the project along on a time schedule that could see the completion of the project in time for the opening of the 1977 football season," fund raising coordinator Bob Brown said.

However, before the project actually goes to bid, financing for the project must be assured, according to Everett Chandler (Dean of Students) who heads the campus committee on the stadium renovation project. Brown reported that approximately $100,000 has been pledged toward an announced goal of $400,000 that is needed within the next 60 days if the project is to be completed by next fall.

The Mustang Stadium renovation project calls for the demolition of the wooden bleachers on the west side of the field. The 1,500 existing seats would be replaced by steel bleachers seating 5,200. Included in the new seating would be chair-type and bench-back seating between the 35-yard lines. A community committee headed by Harry Henderson of San Luis Obispo is coordinating the sale of options to purchase season tickets in the chair-type and bench-back seating as one of the major sources of funding for the renovation project.

LIBRARY EXTENDS HOURS, NOTES HOLIDAY SCHEDULE

In an effort to meet the academic needs of students who cannot attend the Library during its general hours of opening because of heavy class or work schedules, the Library will extend its hours in certain key areas for the 1976-77 year to accommodate these students. The new Library schedule, which went into effect on Dec. 3, is as follows, except as noted below for the Christmas break:

<table>
<thead>
<tr>
<th>Entire Library</th>
<th>Lobby, Duplication, Reserve, Room 207A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon. - Thurs.</td>
<td>7:45 am - 10 pm</td>
</tr>
<tr>
<td>Friday</td>
<td>7:45 am - 5 pm</td>
</tr>
<tr>
<td>Saturday</td>
<td>8 am - 5 pm</td>
</tr>
<tr>
<td>Sunday</td>
<td>1 pm - 10 pm</td>
</tr>
</tbody>
</table>

A survey on student use of these areas will be made to determine future policy on Library hours.

The Friday during finals (Dec. 10) all Library service areas will close at 5 pm with the exception of the extended hour areas (Lobby, Duplication Room, Reserve Room and Room 207A) which will close at 10 pm. On Saturday (Dec. 11) all service areas will close at 5 pm with the exception of the extended hour areas, which will close at 7 pm. The holiday recess schedule will start on Sunday (Dec. 12) and will end on Tuesday (Jan. 4). During this period the Library will follow the following schedule:

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

The Library will be closed on Friday (Dec. 24) and Friday (Dec. 31).
CSUC WILL AID SMALL BUSINESSES

The California State University and Colleges have been designated to assume a primary role in a new partnership for growth concept for small business, Chancellor Glenn S. Dumke has announced. At the core of this concept are U.S. Small Business Administration-sponsored University Business Development Centers (UBDCs) designed to combine resources of universities, governmental agencies and business communities on behalf of a stronger, more productive economy.

UBDCs have been likened in terms of potential scope and magnitude to the way that the government has long assisted the nation's farmers through agricultural research and extension services operating through Land Grant college and university campuses. Dumke announced that Dean Reed M. Powell of California State Polytechnic University, Pomona, who has guided the development of the UBDC concept nationally, will coordinate systemwide implementation of the new federal program. Both Cal Poly, Pomona, and California State University, Chico, are among eight universities in the country designated by the SBA as University Business Development Centers.

BOOKSTORE WILL CLOSE FOR CHRISTMAS BREAK

Mary Lee Green (Bookstore Manager) has announced that El Corral Bookstore will close for Christmas Break at 4:30 pm Dec. 23 and open again for business at 7:45 am Jan. 3. The bookstore offices will remain open Dec. 27 - 30 for the convenience of faculty and staff.

REGISTRATION REMINDER FOR FACULTY/STAFF

Gerald N. Punches (Registrar) reminds all faculty and staff who plan to enroll for regular credit at Cal Poly for the 1977 Winter Quarter to bring their completed registration books to the Registrar's Office, Adm. 219, by Dec. 28 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. 4.

VACANT FOUNDATION STAFF POSITIONS

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 the requirements of Executive Order 11246 and is an Affirmative Action and Title IX Employer. All interested persons are encouraged to apply.

Lead Pantry Worker: ($3.61-4.29/hr.), Food Service Department. Person to plan, control and direct all vegetable and salad preparation. Duties include: Supervising and training personnel, inventory maintenance, monitor food transfers related to Pantry, assist in development and maintenance of recipe system. Requirements: Minimum of three years of Pantry and supervisory experience (formal Food Service education may substitute for up to two years experience). Closing date: 12/23/76

Clerical Assistant II-A: ($673-804), Personnel Office. Duties include: Receptionist; receives, logs and files incoming applications; maintains employee, applicant and correspondence files; types correspondence and reports; assists with general clerical functions in the office. Requirements: One year of clerical experience, high school degree or equivalent, minimum typing speed of 45 wpm. Applications will be accepted through December 23, 1976.
LIBRARY EXHIBIT IN DECEMBER

The Library exhibit for December is titled: "The Christmas Story." Some of the monographs on display are the following: Bologna, Early Italian Painting; Dominguez Bordona, Spanish Illumination; Leroy, and Ethiopian Painting. The latter include famous paintings, frescoes, and illuminated manuscripts related to the Nativity. The following art reproductions serve as a background: Giotto, Madonna and Child; Leonardo da Vinci, The Annunciation; and Fra Angelico, The Adoration of the Magi.

SOCIAL SECURITY DEDUCTIONS FOR 1977

Maximum taxable earnings for Social Security purposes for 1977 has been set by the Federal Commission of Social Security at $16,500. If personnel have already reached the $15,300 limit for 1976, it should be kept in mind that contributions for 1977 will begin with the December check (which is received on or about January 1, 1977) as the checks are dated January 1 and considered 1977 income. The Social Security contribution rate on taxable earnings remains at 5.85% each for the employee and employer.

SUPPORT STAFF VACANCIES LISTED

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. This university is subject to the requirements of Executive Order 11246 and is an Affirmative Action and Title IX Employer. All interested persons are encouraged to apply. The positions are:

Departmental Secretary II-B, ($822-$984), Animal Science, School of Agriculture and Natural Resources. Duties: to perform difficult clerical functions; serves a 21-member faculty with extensive University and Foundation responsibilities. Experience: 3 years clerical experience and high school graduate. Requirements: Typing 45 wpm and shorthand at 90 wpm, ability to use duplicating machines, calculator work and must be able to supervise subordinate clerical employees and student assistants. Closing date: December 23, 1976.

Campus Peace Officer, ($1129-$1433/month), University Police, Division of Business Affairs. Duties: enforcing laws, traffic and safety regulations on campus, providing security control, preparing reports and appearing as witnesses in court when necessary. Requirements: high school graduate with six semester or nine quarter units of job-related college credit; training in legal, moral and operational aspects of firearms; must pass agility test and meet the requirements of pre-employment physical. Closing date: January 6, 1977. Two positions available. One immediately, the other June 1, 1977.

Programmer Trainee, ($993-$1087/month), Admissions and Records, Student Affairs. Temporary Help position commencing on January 1, 1977 thru June 30, 1977. Duties: Coordinates all data processing work done or performed at the computer center; assists in preparing documentation for existing program changes and evaluates and recommends to the Director all new computer programs. Requirements: one year practical experience in business management systems or data processing with College degree. Knowledge of computer languages and ability to analyze existing systems for possible computerization. Closing date: December 16, 1976.
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 the requirements of Executive Order 11246 and is an Affirmative Action and Title IX Employer. All interested persons are encouraged to apply. Following is a description of the available positions:

**Professor**, ($21,576-$26,052/year), Accounting Department, School of Business. Full-time position for 1977-78 to teach accounting courses. Doctorate with degree or major in Accounting; record of teaching, research, publication and professional service. Responsible for teaching, professional service and some research contribution. Opening in September 1977. Closing date: January 15, 1977.

**Assistant and Associate Professors**, ($14,880-$20,592/year, depending on qualifications), Accounting Department, School of Business. Full-time position for 1977-78 to teach accounting courses. Doctorate or ABD's near completion, with degree or major in Accounting; teaching, research, publication and professional service desirable. Responsible for teaching, professional service and some research contribution. Opening in September 1977. Closing date: January 15, 1977.

**Lecturer**, ($905-$1088), Management Department, School of Business. Part-time position for Winter Quarter, 1977. Position also available for Spring Quarter 1977. Duties and responsibilities include teaching one Industrial Relations 314 class. Prefer candidates with Master's degree and appropriate teaching and professional experience. Closing date: December 22, 1976 (Winter Qtr.) Closing date: February 25, 1977 (Spring Qtr.)

**Assistant Professor or Associate Professor**, ($13,572-$20,592/year), Computer Science and Statistics Department, Science and Mathematics. Duties: include teaching lower and upper division courses in Statistics. Must have Ph.D. in Statistics or related subject matter field. Preference will be given to those with background in applied statistics, multivariate analysis or business-related statistics. Position available September, 1977. Closing date: February 15, 1977.

**Assistant Professor or Associate Professor**, ($13,572-$20,592/year), Computer Science and Statistics Department, Science and Mathematics. Duties: include teaching lower and upper division courses in Computer Science. Must have Ph. D. in Computer Science. Preference will be given to those with experience in areas of computer networks, telecommunications, file management, and/or computer graphics. Position available September, 1977. Closing date: February 15, 1977.

**Lecturer**, ($9,048-$10,880/two quarters), Ornamental Horticulture, Agriculture and Natural Resources. Full-time/Winter and Spring quarters 1977, to teach in area of Fundamentals of Ornamental Horticulture and Plant Materials. Master's degree in Ornamental Horticulture or closely related field and commercial or teaching experience required. Closing date: December 22, 1976.

**Lecturers**, ($1131-$2171/month, dependent upon qualifications and assignment), part-time and full time positions. School of Architecture & Environmental Design. Duties: teaching courses in architecture. Applicants must submit brochure of original work for review, must possess a master's degree, and have office or field experience. Prefer candidates with California registration and teaching experience. Positions available Winter/Spring Quarters, 1976-77. Closing date: December 20, 1976.
OFF-CAMPUS OPPORTUNITIES FOR BASIC RESEARCH

Because most of Cal Poly's laboratories are teaching and not research labs, it is often difficult for faculty members with an interest in basic research to find facilities to continue their professional development. Fortunately, there are opportunities available for faculty to participate in basic research at well-equipped laboratories in other locations run by industry, the government, or other universities. This special issue of "Encouraging Notes" is devoted to detailing some of these. You might detach this from the Cal Poly Report and keep it for future reference.

Off-campus research in the sciences usually involves resident work at a laboratory connected with government, industry, or another academic institution, primarily during the summer months. Participants in off-campus research benefit by maintaining contact with the latest developments in the field, and students benefit as new techniques and theories are incorporated into the course material. Appointments are made for a specific length of time and involve research on an agreed upon project of mutual benefit. Length of commitment and stipend vary with the project and the sponsoring agency.

This special issue of "Encouraging Notes" focuses on four opportunities for off-campus research, two that are available through consortium agreements (Association of Western Universities and the NASA-Ames Consortium), and two through programs sponsored by the National Science Foundation. Although we are highlighting four programs, these do not represent the full spectrum of research opportunities available. All these programs, however, do differ from post-doctoral and other fellowship programs, which generally permit participants to follow their own lines of inquiry.

Most of these and other sponsoring agencies are particularly interested in supporting research involving interdisciplinary approaches. While most money is available to individuals from the hard sciences, there are opportunities for those from Business and Social Sciences to investigate human factors and economic feasibility, usually on a project involving applied research.

Those desiring further details about any of the following should contact Dr. Lucas in the Office of Research Development, Room 317 Administration Building, or phone him at 546-2982.

NATIONAL SCIENCE FOUNDATION

NSF support of off-campus research is aimed at improving the quality of instruction at colleges and universities by helping faculty remain current with the latest developments in their fields. Two main opportunities exist for research off campus: One through the Science Faculty Professional Development Program, which supports faculty work at industrial and other labs; the other through Small College Faculty Support, which allows faculty at small colleges to join NSF-sponsored research at larger academic institutions.

Science Faculty Professional Development Program

The Science Faculty Professional Development Program sponsors research both on campuses and at private industrial laboratories. (This program is the successor of two former programs: Faculty Fellowships in Science Applied to Societal Problems and Faculty Research Participation.) Because of the value which NSF places on direct experience in industry, approximately one half of
funds for the Faculty Professional Development Program will go towards research projects in private laboratories. Projects run from 3 to 12 months and usually focus on a solution to one particular problem. Faculty applying to the program must be U. S. citizens, hold a BA or higher degree, have five years of full-time teaching experience at an "instructor" level in math, science, or engineering, and be currently employed.

Applicants are required to submit an "Activities Program" — an individualized, professional development plan of graduate or postdoctoral level study or research in science, mathematics, or engineering directed toward achieving increased competence in an area of science. Applicants may submit Activities Programs covering a wide range of possibilities: advanced course work (whether or not leading to a degree), research, independent study—all of these singly, or in combination. These awards are not designed to support the preparation of prior research results for publication, or the writing of textbooks.

Applicants are judged on past teaching excellence, ability to accomplish the particular project involved, the contribution of the project to the individual's effectiveness as a science teacher, and the reasonableness of the project in terms of time and facilities requested.

Grants are awarded for scientific study or scientific work at any appropriate United States or foreign institution. Appropriate institutions for this program include any academic or nonacademic institution, public or private, profit or nonprofit, having facilities or programs for scientific research or study which are appropriate for the professional development of the applicant.

Successful applicants receive a stipend based on the individual's academic salary up to a maximum of $2,250/month. A travel allowance is available for individuals who must travel over 200 miles to relocate, and an activities support allowance of up to $150 a month is available.

Closing date for applying to the Science Faculty Professional Development Program for June, 1977, is January 7, 1977. (Application information is available in the Research Development Office.) Awards will be announced in April, 1977.

Support of Small College Faculty

The purpose of this program is to allow faculty of schools where there is minimal opportunity to do original research to participate in NSF-sponsored research at larger universities. (Last summer two Cal Poly faculty members participated in this program.) Faculty members interested in a particular NSF project at another school should contact the Project Director of that project. The institution receiving the original grant then requests funds for having the additional staff member. Faculty so hired are temporary employees of the institution doing research. Further information is available from Leonard F. Gardner, National Science Foundation, 1800 G Street, NW, Washington, DC, 20550. (Telephone: 202-632-4278)

ASSOCIATED WESTERN UNIVERSITIES

Associated Western Universities is a consortium of western colleges and universities sponsored by the Energy Research and Development Administration. AWU coordinates faculty participation in the research activities at ERDA-connected laboratories, both government and private. During the period that AWU was sponsored by the Atomic Energy Commission, its participating laboratories were all concerned with nuclear power. With the shift to ERDA, laboratories investigating fossil fuels, such as
those at Laramie and Bartlesville, have joined the group of cooperating laboratories. The AWU is presently also exploring agreements with the U. S. Geologic Survey at Menlo Park and the Jet Propulsion Laboratory. A wide variety of projects at these facilities receives funding from ERDA and involves faculty from all scientific fields, including biology, engineering, mathematics, etc. ERDA-funded projects range from project SPEAR, the positron-electron storage ring at the Stanford Linear Accelerator Center, to Atlantic Richfield Hanford Company's radiochemical research on irradiated fuels, to the Lovelace Foundation's study on the biomedical effects of radioactive aerosols.

The ultimate goal of the AWU is to improve the quality of higher education by updating faculty's information on developments in energy-related areas. In addition, participants become aware of resources available to their students pursuing both undergraduate and graduate studies, and establish a close working relationship with lab staff who may in the future supervise students.

Appointments are usually for two months, but longer appointments may be considered. Applicants are evaluated on educational background, scientific interest and probable benefit from research. Acceptance of a research proposal depends of course on site and lab personnel availability. Last year, AWU was able to place 18 of approximately 50 applicants.

Stipends are available up to $1,500/month, and are based on full-time teaching salary. A housing allowance of $75/month and a mileage allowance are available under special circumstances.

Faculty interested in working at an ERDA laboratory should contact the Research Development Office for an application form. Once an area of general interest has been picked, AWU will arrange a visit to the appropriate site to discuss a specific project. Travel money for this preliminary visit may be available. Subsequent arrangements are made through AWU.

Generally the AWU depends upon faculty members to know what people at which laboratories they would want to work with. A good source of information about these possibilities is your colleagues. If they cannot help you, call the Coordinator, Research Development, at extension 2982. He can then contact the AWU office for specific leads.

Dr. Donald Walker, Executive Director of the AWU, plans a visit to Cal Poly in the next few months. If you would like a special invitation to meet with Dr. Walker at that time, please leave your name in the Research Development Office.

The following is a list of cooperating laboratories affiliated with the AWU. Each individual lab generally has its own specialized research areas.

**COOPERATING LABORATORIES**

- Atomics International (Los Angeles)
- Battelle-Pacific Northwest Labs & Westinghouse Hanford Company (Richland, WA)
- Bartlesville (OK) Energy Research Center
- Crocker Nuclear Laboratory (Davis, CA)
- EG&G Accelerator Laboratory (Santa Barbara, CA)
- General Atomic Company (San Diego, CA)
- Idaho National Engineering Laboratory
- Inhalation Toxicology Research Institute (Lovelace Foundation, Albuquerque)
- Laboratory of Nuclear Medicine & Radiation Biology (Los Angeles)
- Laramie (WY) Energy Research Center
- Lawrence Berkeley (CA) Laboratory (including Donner Lab)
NASA-AMES

This consortium of 70 universities coordinates research and other interchange agreements between member institutions and NASA research facilities at Moffet Field. Cal Poly joined the Consortium in January of this 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/vertical 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 Joyce Summerfelt, Executive Director of the Consortium, with an indication of the area of general interest and a copy of the curriculum vitae. She can then put you in contact with an appropriate researcher.

Ms. Summerfelt has agreed to visit Cal Poly when Dr. Walker of the AWU does. If you would like a special invitation to meet with her during her visit, please leave your name with the Research Development Office.