Energy conservation projects

The following is a brief report on Energy Conservation projects undertaken, underway, or proposed. Since 1974 the campus has embarked on a program that is designed to reduce total energy consumption by whatever means available and using financial resources generated through year-end savings, minor construction, and other energy conservation allotments. It is the campus endeavor to achieve a 40% energy reduction as mandated by the California State University and Colleges Board of Trustees by 1983-84 using 1973-74 as the base consumption year. Energy conservation measures involve all segments of the university in electrical, water, and gas consumption. Among the current projects are the following:

Water Conservation:
- The university has reviewed and altered grounds watering schedules to minimize runoff. To accomplish this, schedules are changed to water more often since local soils are dense and water does not penetrate, thus preventing waste.
- Showers have been fitted with water saving devices to reduce flow and still maintain sufficient pressures.

(Continued on page 2)

Athletic Task Force will hold hearing

The campus-wide task force on the role of athletics that has been conducting an in-depth study of intercollegiate athletic programs at Cal Poly since mid-summer has scheduled an open hearing to solicit expressions of public opinion, advice, and information in preparation for its final report.

Scheduled for 7 pm on Thursday (Nov. 15) the hearing will take place in University Union 220. All interested persons are invited to attend and participate. Howard West (Associate Executive Vice President), chairman of the task force, said the group, which includes student, faculty, staff and administrative representatives, has identified several alternative courses of action for the university's intercollegiate athletic program.

"Draft descriptions of these alternatives and their implications will be distributed at the hearing and will aid, we hope, in focusing the discussion. We will, however, invite suggestions of further alternatives and any information or advice which participants in the hearing can supply," West said.

Emergency phone number clarified

"2-2-2-2" is still the number to be used when placing emergency telephone calls from campus phones, according to Richard C. Brug (Director of Public Safety). His comment was prompted by the announcement in San Luis Obispo this week that the new "9-1-1" emergency telephone system would begin operation on Monday (Nov. 5).

Brug explained that the university's decision to not participate in the new "9-1-1" program was based on the fact that the campus telephone system requires the use of the number "9" as an access to the Pacific Telephone Co. system that serves the surrounding communities. "Since callers from telephones with "5-4-6" prefixes will end up somewhere in the long distance system if they dialed "9-1-1," we believe the best emergency services will be obtained by keeping our "2-2-2-2" system intact," Brug added.

Although callers from pay telephones and other campus phones that have other prefixes will be able to receive emergency response by dialing the new emergency telephone number, the university public safety director urged callers from those telephones to also use "5-4-6-2-2-2-2" for emergency calls.

Explaining how the campus emergency telephone reporting system works, Brug said dispatchers are on duty around the clock to answer all "2-2-2-2" calls. They take the necessary response information and relay it to either or both the University Police and University Fire sections for response.

Brug emphasized that the use of the "2-2-2-2" number should be reserved for reporting bona fide emergencies or crimes that require emergency response. Incidents of a less serious nature should be reported by dialing the Public Safety Department's number for routine business, Ext. 2281.
Energy conservation projects (Continued)

- Free-flowing toilet facilities have been changed to tank or flush type thus reducing consumption. Self-closing faucets have been installed in certain buildings on bathroom fixtures as well as a continual maintenance of all water faucets, valves, lines, etc., for possible losses.

- The tennis courts and stadium were continually being washed. This practice has been curtailed or reduced to a level which continues to permit the teaching programs.

Essentially, the water conservation program is one that is being monitored continually by those responsible and any additional means to save will be put into effect as soon as possible.

Natural Gas Conservation:

The primary use of this resource is for production of steam in the central boiler plant and for domestic use in various buildings such as heaters, furnaces, chemistry use, etc. Boiler gas usage accounts for approximately 90% of the gas consumption with the remaining 10% being used for domestic sources. Energy conservation measures have been to reduce the use of overhead heaters in buildings to times only when occupied, to insure that thermostats are all working, heaters are operating at maximum efficiency, and to control the installation of new gas consuming units, and maintain our overall consumption below the allotment of 750,000 cu.ft./day.

The overall campus natural gas consumption has decreased approximately 25% since our 1973-74 base year. The primary reason has been the reduction of steam production, temperature heating and cooling restrictions, and the prudent use of natural gas throughout the campus.

Electrical Conservation:

Electricity is by far the most widely used source of energy on this University campus. To conserve the resource the campus has implemented the following electrical conservation measures.

- Lighting has been reduced in hallways, corridors, etc. to the lowest level that makes the area safe and functional.

- Incandescent interior fixtures are being replaced with the more energy efficient fluorescents.

- Exterior lighting on buildings is being converted to a lower wattage, higher efficiency, high pressure sodium type, at the same time reducing the total number of fixtures in use.

- The complete campus has converted all fluorescent light tubes to the energy saver watt-miser type of tube that saves electrical energy. The conversion has a payback period of less than one year in savings.

- Interior lighting of various shops is being converted over to indoor high pressure sodium lighting.

- The sizes of incandescent bulbs, where in use, have been reduced in wattage.

- The campus parking and street lighting is being converted to a more efficient system—high pressure sodium.

- A student assistant is employed between 4 pm and 6 pm each workday to turn off lights in various classrooms and buildings which are not being used.

- Time clocks are installed on heating and ventilation units to cycle the system and leave in the off position during nights and weekends.

- Photo-electric cells are incorporated in lighting systems to control the off-on times.

- Air conditioning systems in the residence halls are turned off and used only when exterior temperatures dictate their need.

- Two levels of lighting are being incorporated into labs and classrooms in newer buildings to provide for more use of natural lighting.

- The use of warm white fluorescent light tubes is not permitted due to their being 30% less efficient than the cool white types. Only under special conditions will their use be permitted.

- Considerations are always looked at in repainting offices and/or work areas to light colors resulting in more useful light being reflected. Custodial services is requested to light only those areas where work is performed. Solar glass is recommended and used to reduce head gain within buildings.

“Our Town” will open Theatre season

Tickets went on sale Monday (Nov. 5) for the production of Thornton Wilder’s Pulitzer Prize winning drama “Our Town,” the fall offering sponsored by the Speech Communication Department. The popular play will be presented in its original and most popular form as it was first presented, in 1938, at Henry Miller’s Theater in New York City, according to Michael Malkin (Speech Communication) director of the play.

Dr. Malkin characterized the play as a warm and witty play yet a serious one with situations familiar to all members of the audience, well deserving of the Pulitzer Prize it received. When presented in 1938, the play created something of a sensation since it departed from the realistic style of theater then popular. There had been earlier dramas set on a bare stage, but never one in which the setting, or absence of setting, represented an entire town.

Wilder uses the convention of having a “stage manager” (in reality, the play’s lead) set the stage in the minds of the audience and prepare the mood of nostalgia which pervades the drama. The play will feature only suggested scenery and an emphasis on mime, which appeals to the audience’s imagination. Tickets are priced at $2 for both students and the general public and will be available at the University Union ticket office. Tickets, if available, will also be sold before each performance at the door. Performances at the Cal Poly Theatre are scheduled for Thursday, Friday and Saturday (Nov. 15-17). All performances begin at 8 pm with the doors open at 7:30 pm.
VETERAN’S DAY WEEKEND

Food Service operating hours

Food service areas will be open according to the following schedule over the Veteran’s Day Weekend, Saturday (Nov. 10) through Monday (Nov. 12):

Student Dining Room
- B: 10 am to 12 noon
- L: 12 noon to 2 pm
- D: 4 pm to 7 pm

Vista Grande Restaurant
- 11 am to 8 pm

Burger Bar
- 12 noon to 12 midnight

Ice Cream Parlour
- Closed Saturday and Sunday
  - Open 12 noon to 10 pm Monday

Snack Bar
- Closed

Sandwich Plant
- Closed

Staff Room
- Closed

Vending
- Closed

Vista Grande Cafeteria
- Closed after Lunch Friday
  - Reopens for Breakfast Tuesday

Books at High Noon

Leonard Davidman (Education) will speak at Books at High Noon on Tuesday (Nov. 13). Dr. Davidman will review Teaching Students Through Their Individual Learning Styles: A Practical Approach by Rita Stafford Dunn.

Dr. Davidman has been a member of the Education Department since 1977. He received his PhD from Stanford University, and has been an elementary school teacher, as well as being involved with the teacher preparation programs at Cal Poly, San Jose State University, and Whitman College in Washington State. His interests are diverse and range from instructional theory to motivation and discipline.

Books at High Noon is sponsored by the University Library. Faculty, staff, students, and visitors are invited to attend. This presentation will be the final program for the Fall Quarter.

Foundation Board meeting

The Board of Directors of the California Polytechnic State University Foundation will hold a regular meeting on Tuesday (Nov. 13) at 8:30 am in Adm. 409 on the California Polytechnic State University campus in San Luis Obispo, California. This is a public meeting. For further information about this meeting, or to obtain a copy of the meeting agenda, contact Al Amaral (Executive Director, Cal Poly Foundation) in University Union 212, or call Ext. 1131.

OFF-CAMPUS VACANCIES

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

San Diego State University, San Diego, Director, Continuing Education.
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.

Department Head, $23,700-$36,204/year. Graphic Communications Department, School of Communicative Arts and Humanities. Department duties include general department administration, coordination of ten teaching faculty and four staff, administering budget allocations, development of curriculum, and other related responsibilities. This is a 12-month position with 24 working days of vacation. Position available September 1, 1980. Closing date: 1-18-80.

Lecturer, $16,368-$19,680/year; depending upon qualifications and experience. Physics Department, School of Science and Mathematics. Duties include teaching undergraduate lecture and laboratory classes in physics and physical science. PhD in physics and evidence of experience and effectiveness as a teacher is required. Closing date: 1-28-80.

Assistant/Associate Professor, $16,368-$21,588/academic year; depending upon qualifications and experience. Physics Department, School of Science and Mathematics. Duties include teaching undergraduate lecture and laboratory classes in physics and physical science. PhD in physics and evidence of experience and effectiveness as a teacher is required. Closing date: 1-28-80.

Assistant Professor, $16,368-$19,680/year; dependent upon qualifications and experience. Civil Engineering Department, School of Engineering and Technology. Position available September 1980. Due to above salary changes, we are re-advertising. Duties and responsibilities include teaching soil mechanics, traffic engineering, transportation system design, highway and airfield pavement design, drainage, public transportation, transportation modeling as well as computer applications in the above areas. Candidates must possess a Bachelor's Degree in Civil Engr from an ECPD accredited program with a Master's and PhD in Civil Engr. Registration as a Civil Engr is desirable. Closing date: 2-1-80.

Lecturer, $16,368-$19,680/year. Social Sciences Department (Geography), Division of Social Sciences. Leave replacement position for 1980-81 academic year only. Required teaching specialization is California, urban, and political geography. Ability to teach physical and/or economic geography would be helpful. PhD in geography desirable, but advanced ABD candidates may be considered. Closing date: 2-28-80.

Assistant/Associate Professor, $16,368-$24,828/academic year. Management Department, School of Business. Position available for the 1980-81 academic year. Duties include teaching some combination of production and operations management, industrial management, organization and management theory, business strategy and policies. Doctorate preferred, major in management or ABD's; industrial, government, or management consulting experience desired. Closing date: 1-1-80.

Assistant/Associate Professor, $16,368-$24,828/academic year. Management Department, School of Business. Position available for the 1980-81 academic year. Duties include teaching some combinations of organizational behavior, advanced personnel management, industrial relations, and organization development. Doctorate preferred, major in management, or ABD's; industrial, government, or management consulting experience desired. Closing date: 1-1-80.

Lecturer, $16,368-$18,792/academic year. Speech Communication Department, School of Communicative Arts and Humanities. Teach basic courses in fundamentals of speech, serve as assistant director of forensics, coaching individual events and travelling to tournaments. Qualifications: Completed M.A. (ABD preferred), teaching experience and previous coaching required. Closing date: 2-27-80.

Lecturer, $16,368-$19,680/academic year. Electronic and Electrical Engineering Department, School of Engineering and Technology. Position available September 1980. Minimum academic preparation - MS degree in Electronic or Electrical Engineering, Ph.D. highly desirable. Emphasis in integrated circuits and systems with recent industrial experience in design of circuits and systems, both analog and digital. Closing date: 2-29-80.

Assistant Professor, $16,368-$19,680/academic year. Electronic and Electrical Engineering Department, School of Engineering and Technology. Position available September 1980. Qualifications - recent earned Ph.D. degree preferred with industrial hardware design experience in such areas as communications, discrete and integrated electronic circuits and systems. Closing date: 2-29-80.

Associate Professor, $20,604-$24,828/academic year. Electronic and Electrical Engineering Department, School of Engineering and Technology. Position available September 1980. Qualifications - Ph.D. degree in Electronic or Electrical Engineering. Recent industrial experience in design of electronic circuits and systems, both analog and digital, strong hardware orientation. Closing date: 2-29-79.

Lecturer(s), $5,456-$6,560/quarter; salary quoted is for full-time and will be adjusted according to assignment and qualifications. Landscape Architecture Department, School of Architecture and Environmental Design. Department has openings for part-time position for Winter and Spring Quarters 1980. Bachelor of Landscape Architecture and professional experience are desirable; teach one or more courses in Practice or Design. Closing date: 11-26-79.

Senior Assistant Librarian (Reference), $16,968-$23,460/year-12 months. University Library. Responsible for general and specialized reference work, library instruction, reference and general collection development and data base searches within a subject area. Requires an ALA accredited Library Science degree. A master's degree in a subject field is required for promotion or tenure. Two to three years experience required in a medium to large academic library, with an agriculture, science, engineering/technology background preferred. Position open immediately. Closing date: 1-31-80.

Senior Assistant Librarian (Serials Cataloger), $16,968-$23,460/year-12 months. University Library. Catalogs and classifies serials, including periodicals, occasionally in languages other than English. Utilizes Anglo-American Cataloging Rules, and prepares copy by code, or supervising the coding for computer (OCLC) input. Requires an ALA accredited Library Science degree. A master's degree in a subject field is required for promotion or tenure. Two to three years serials cataloging experience required, including OCLC. Position available immediately. Closing date: 1-31-80.

Cal Poly Report - November 8, 1979
ASSOCIATED WESTERN UNIVERSITIES. AWU, a non-profit organization, is funded almost entirely by the U.S. Department of Energy. AWU is a contractor for the U.S. Department of Energy that provides stipends and other necessary remuneration to faculty or student participants who desire to become involved in an energy or energy-related project at one of the cooperative laboratories or centers in the western United States.

Objectives of AWU, among others, are: (1) to assist in assuring adequate manpower for working on and solving the nation's energy problems; (2) to strengthen and augment the educational institutions' capabilities in the fields of energy production and related areas including environmental control and conservation; (3) to infuse the cooperating laboratories and centers with university-generated ideas and theoretical expertise; and (4) to develop within academe a better understanding of energy-environmental tradeoffs.

AWU programs include: the Laboratory Graduate Participant Program; the Thesis Parts Participant Program; the Student Participation Program; and the Faculty Participant Program. Detailed information is available in the Research Development Office. Faculty participants typically spend a summer working in an AWU lab. Applications for such appointments should be at AWU by February or early March, 1980.

The current laboratories involved are: Atomics International/Canoga Park, CA; Bartlesville Energy Research Center/Bartlesville, OK; Crocker Nuclear Laboratory/Davis, CA; EG&G Accelerator Center/Santa Barbara, CA; General Atomic Company/San Diego, CA; Grand Forks Energy Research Center/Grand Forks, ND; Idaho National Engineering Laboratory/Idaho Falls, ID; Inhalation Toxicology Research Institute/Albuquerque, NM; Laboratory of Nuclear Medicine and Radiation Biology/Los Angeles, CA; Laramie Energy Research Center/Laramie, WY; Lawrence Berkeley Laboratory/Berkeley, CA; Lawrence Donner Laboratory/Berkeley, CA; Lawrence Livermore Laboratory/Livermore, CA; Los Alamos Scientific Laboratory/Los Alamos, NM; Nevada Test Site/Mercury, NV; Radiobiology Laboratory/Davis, CA; Richland Laboratories/Richland, WA; Sandia Laboratories/Albuquerque, NM; Sandia Laboratories/Livermore, CA; Stanford Linear Accelerator Center/Stanford, CA; U.S. Geological Survey/Menlo Park, CA; U.S. Army/White Sands Missile Range, NM.

COUNCIL FOR INTERNATIONAL EXCHANGE OF SCHOLARS - NATO RESEARCH FELLOWSHIPS. A limited number of advanced research fellowships will be offered for 1980-81. Candidates are invited to submit research projects within the following areas: (1) the image of NATO in the public media of specific countries; (2) the problem of intra-Alliance economic cooperation and military assistance; (3) the reconciliation of the twin aims of the maintenance of military security and the pursuit of detente, arms control and disarmament; (4) NATO's role after 30 years of peace in Europe; (5) the pursuit of detente in East-West relations; (6) the role of the Atlantic Alliance in reducing tensions; (7) political consultation in the Atlantic Alliance; (8) economic problems of the West and the financing of common defense; (9) standardization and interoperability of defense equipment, and cooperation in arms procurement; (10) parliamentary interaction among NATO countries on NATO-related subjects; (11) shared cultural values among NATO countries; and (12) jurisprudential problems pertaining to certain aspects of allied cooperation. Grants will normally be for a period of two to four months but can, in special cases, be extended to six months. Applications should indicate the time required to complete the proposed research project. DEADLINE: 1/4/80
**ENVIRONMENTAL PROTECTION AGENCY.** To ensure the receipt of a broad base of research proposals, maximum competition for awards, and expanded use of the cooperative agreement as an assistance mechanism, the Office of Research and Development at EPA plans to: (1) expand the system to encourage applications from increased numbers of experienced researchers, especially those who have not previously received substantial EPA extramural research funding assistance; (2) encourage a greater number of handicapped, minority, and female researchers; (3) encourage informal preproposal contacts with EPA laboratories, or with EPA headquarters in Washington, DC; (4) periodically issue solicitations for proposals in addition to those received on an unsolicited basis; (5) create a centralized peer review process, organized by research disciplines that currently include analytical chemistry methods development, anticipatory research, atmospheric chemistry, chemical and biochemical studies, economic methodology development and social science research, environmental pollution characterization, environmental control technology, environmental modeling, environmental transport of pollutants, epidemiology, freshwater ecology, health effects of air pollutants, health effects of water and solid waste pollutants, marine biology, neurotoxicology and toxicology, physical/chemical/biological measurement and analysis, pollution source characterization, terrestrial biology, social sciences, and subsurface processes.

**UPCOMING NATIONAL SCIENCE FOUNDATION PROGRAM DEADLINES:**

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<td>1/1/80</td>
<td>International Travel Grants</td>
<td>Ms. Mildred Bosilevac (202-632-5741)</td>
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<td>1/1/80</td>
<td>Women in Science/SE 80-26</td>
<td>Ms. Joan Callanan (202-282-7150)</td>
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<tr>
<td>1/1/80</td>
<td>Women in Science/Workshops</td>
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<td>Information Dissemination for Science Education/SE 80-33</td>
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<td>1/15/80</td>
<td>Science for Citizens</td>
<td>Dr. Rachelle Hollander (202-282-7770)</td>
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<td>2/1/80</td>
<td>Specialized Engineering Research Equipment Grants</td>
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<td>2/28/80</td>
<td>Science for Citizens</td>
<td>Dr. Rachelle Hollander (202-282-7770)</td>
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<td>2/29/80</td>
<td>Instructional Scientific Equipment/SE 80-32</td>
<td>Dr. John Maccini (202-282-7033)</td>
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**NATIONAL SCIENCE FOUNDATION - RESEARCH INITIATION GRANTS.** NSF initiates and supports basic and applied research and programs to strengthen research potential in engineering, materials, and earthquake hazards mitigation and to appraise the impact of research programs upon industrial development and upon the national welfare. Each applicant is permitted to submit only one proposal, either under Option A (Engineering and Materials Special Eligibility Requirements), Option B (Engineering and Materials), or Option C (Earthquake Hazards Mitigation Research Initiation). In general, the budget may not exceed $40,000. **DEADLINE: 12/1/79**

**U.S. OFFICE OF EDUCATION - CONSUMERS' EDUCATION PROGRAM.** The purpose of this program is to develop and carry out innovative special projects designed to help people function more effectively as consumers and in their roles as consumer-citizens. Approximately $3,135,000 will be available to this program in FY 1980 to support new projects. An estimated 50-55 projects will be supported. For further information and application materials, contact: Dr. Dustin W. Wilson, Jr., Director, Consumers' Education Program, USOE, Room 807, Riviere Building, 400 Maryland Avenue, SW, Washington, DC 20202. (202) 653-5983.

* Guidelines and/or applications available in the Research Development Office.
** Information requested/available soon.
*** Contact agency directly.