


CAL POLY REPORT

California Polytechnic State University
San Luis Obispo, California 93407

March 15, 1979

Volume 30, Number 

Library to issue series of bibliographies

The University Library has announced the first issue of a new bibliography series, "Collective Bargaining," compiled by Luvenia Compton (Library). This is one of a series the University Library plans to publish and distribute as a service to the campus. It is intended to provide the academic community with bibliographic information on subjects of current or special interest.

Librarians of Cal Poly, over the years, have compiled a number of bibliographies - a few of these have been published. Many of them are of outstanding quality and are used by faculty and students. However, the bibliographies have not been brought to the attention of the academic community in any organized manner.

The series, published irregularly, is intended to provide the academic community with bibliographic information on subjects of current or special interest. The bibliographies, both systematic and descriptive, will be compiled by librarians, faculty, staff, and students.

The selection of subject matter and standards of format and content are reviewed and approved by the Library Bibliographic Committee. Suggestions or offers to compile the bibliographies are welcome. Copies of current issues in the series can be obtained at the reference desk in the Library.

SCHWARTZ IS ASSOCIATE DEAN

Kenneth E. Schwartz, a member of the Cal Poly faculty for the past 26 years, will begin his new assignment as associate dean of the School of Architecture and Environmental Design on Thursday (Mar. 22). Acting President Dale Andrews announced Schwartz, appointment. He said it was based on the recommendations of Hazel J. Jones (Vice President for Academic Affairs) and George J. Hasslein (Dean, Architecture and Environmental Design).

Swartz was involved in establishment of the school when it was formed in 1968 after having been an instructional department since 1947. He was director of curriculum and advising for the school from 1968 until June, 1978, when the instructional programs of the school were departmentalized. Schwartz succeeds J. Handel Evans, who resigned in July, 1978, to become associate executive vice president at San Jose State University. The position has been vacant since that time.

Before joining the Cal Poly faculty in 1952, Schwartz was a draftsman for Douglas Aircraft Co. and a designer for various architecture firms in Los Angeles. Since moving to San Luis Obispo and concurrently with his duties at the university, he has been in private architectural practice, has served as member and chairman of the City of San Luis Obispo's Planning Commission, and spent 10 years as the city's mayor. He is a graduate of the

University of Southern California, where he earned his Bachelor of Architecture Degree, and has taken graduate work at Pennsylvania State University, Rensselaer Polytechnic Institute, and University of Manchester in England.

Antone appointed liason for CSUC

The designation of Eugene Antone as Sacramento coordinator for the University Services Program of The California State University and Colleges was announced by Chancellor Glenn S. Dumke. Resulting from extensive talks last year involving CSUC and other state officials, the program attempts to build closer communication between academicians and government agencies working on solution to public problems.

Dr. Antone, Associate Dean of Extended Education, will be housed in the Governor's Office of Citizen Initiative and Voluntary Action, Room 280, State Building No. 1, 915 Capital Mall. he will facilitate faculty contacts from the 19 campuses to various state agencies in areas of manpower training and in utilizing technical and specialized skills.

CAL POLY/CITY/COUNTY
ECONOMIC IMPACT RE-
PORT ON PAGE 4.

Homfrey featured on "Viewpoint"

Margaret Homfrey (Child Development) will again be the guest for television station KSBY's "Viewpoint" program series on Saturday (Mar. 17). Scheduled for 6 pm, the program will feature Miss Homfrey as interviewed by the series host, Arthur Hapgood.

The interview will be a continuation of a discussion of her experiences as an associate of the late educational innovator, Dr. Maria Montessori, and a teacher and proponent of the Montessori method. The original interview was presented as part of the "Viewpoint" series in December. The March 17 program will be re-broadcast at 7 am the following morning, also on KSBY (Channel 6).



PSAC Moves forward in search

The Presidential Selection Advisory Committee for Cal Poly, after four formal meetings, expects to commence interviewing by late March, according to Vice-Chancellor Marjorie Downing Wagner. Dr. Wagner, ex-officio member of the PSAC, announced that the large number of candidates has been narrowed to those who will be interviewed by the PSAC, and that campus visits can be expected in May. She said the announcement of the appointment is expected to be made at the regular meeting of the Board of Trustees on May 21, 1979.

Food service hours

Listed below are the Food Service hours of operation for Spring Quarter break:

Sunday (Mar. 18): All food service facilities closed.

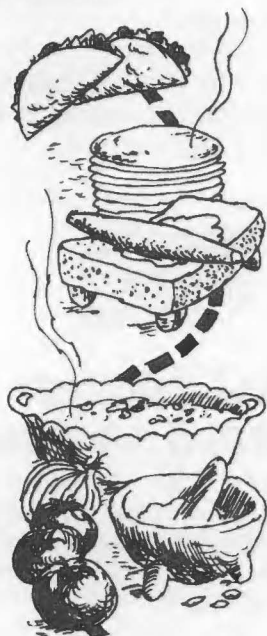
Monday (Mar. 19) and Tuesday (Mar. 20), (Academic Holiday): Staff Dining Room, 8 am to 4 pm, Vending Cellar, 7 am to 4 pm.

Wednesday (Mar. 21): Staff Dining Room, 8 am to 4 pm, Vending Cellar, 7 am to 4 pm, Vista Grande Restaurant 11 am to 8 pm.

Thursday (Mar. 22) and Friday (Mar. 23): (Registration): Staff Dining Room 7am to 4pm, Burger Bar 10am to 12midnight, Snack Bar 7am to 4pm, Ice Cream Parlour 11am to 8pm, Vista Grande Restaurant 11am to 8pm, Vending Cellar 7am to 4pm, all others closed.

Saturday (Mar. 24) and Sunday (Mar. 25): Burger Bar 10am to 1am-Saturday, 12 noon to 12 midnight - Sunday, Vista Grande Restaurant 11am to 8pm, Vista Grande Cafeteria 11am to 2pm and 5-7pm

Monday (Mar. 26) (Spring Quarter classes begin): Resume regular Food Service schedule.



Plant shop hours

The Poly Plant Shop will be open through the final examination period at regular hours (Monday through Friday: 1 pm to 5 pm, Saturday 9 am to 5 pm) and closed during quarter break.

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Board of Trustees take action

The Board of Trustees' Committee on Campus Planning, Buildings and Grounds, acting on behalf of the full Board, took the following actions on Feb. 28:

- Revised the Master Plan for California State University, Northridge through the addition of a site for the Center on Deafness Building adjacent to the Lindley and Nordhoff entrance to the University.

- Revised the California State University, Los Angeles campus Master Plan by changing the campus' northeast boundary, relocating the peripheral road at the Long Beach Freeway and establishing new sites for parking, the Outdoor Physical Education Facility and the Corporation Yard.

- Approved schematic plans for 2,213-space north campus parking areas at California State University, Los Angeles, and a Child Care Center at California State College, San Bernardino.

- Appointed Trump & Sauble, Inc., of Eureka as project architects for restoration of the Forestry Building at Humboldt State University. The building was heavily damaged by fire January 27, 1979.

- Called for the development of a report documenting the CSUC's need for facilities maintenance and repair funds.

The Committee, which met in the Student Union at California State University, Long Beach, on Jan. 25 was delegated the authority to act on behalf of the full Board of Trustees.

Cal Poly Report copy intended for the next issue should be submitted to Betty Holland, Adm. 125, Ext. 2576, prior to 12 noon on Monday.

Cal Poly Dateline is compiled by the Public Affairs Office, Adm. 401, Ext. 2246, and is published on Monday. Typewritten copy intended for the next issue should be submitted to Cathy Burt, Adm. 401, prior to 12 noon on Wednesday.

Publications Editor: Fred Wolf, Ext. 2158, Adm. 210.

Mustang debate tourney

The tenth annual Mustang Invitational Debate Tournament will be presented on Friday and Saturday (Mar. 23 and 24). With competition to be held throughout the day and evening on both dates, the tournament is expected to draw entries from two- and four-year colleges and universities throughout California and several other states.

Debate competition will be in three different styles using two topics. Individual competition will be offered in oral interpretation, persuasive speaking, extemporaneous speaking, informative speaking, duet acting, readers' theatre, after dinner speaking, and group performances of literature. Competition will be in open and novice divisions and individual trophies will be awarded in both divisions for first through third places. Sweepstakes trophies will also be given to the three teams amassing the most points during the two-day tournament.

Although tournament headquarters will be in the foyer of the English Building, rooms in most of the university's major buildings will be used for various parts of the competition. The Mustang Invitational tournament is being sponsored and hosted by the Cal Poly Debate Squad in cooperation with the university's Speech Communication Department.



Special library hours

In order to provide study space for students before and during final examinations, the University Library will extend its open hours as follows: Friday and Saturday (Mar. 9, 10) - All departments open until 10 pm; Sunday through Thursday (Mar. 11-15) - All departments open until 12 midnight; Friday (Mar. 16) - All departments open until 10 pm, Extended Hours until Midnight; Saturday (Mar. 17) - All departments open until 5 pm, Extended Hours until 7 pm.

The Library Hours during the quarter break, Mar. 18-25 will be as follows: Monday through Friday - 8 am to 5 pm; Saturday and Sunday - closed.

STAFF VACANCIES

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

Clerical Assistant II-A, \$729-\$871/month, Half-time in Physical Education Dept., Half-time in Education Dept. Duties: typing, duplicating, assisting students, assisting with telephone calls. Equivalent to one year clerical experience, type 45 wpm, and must have taken the General Clerical Test. Closing Date: 3-29-79.

Clerical Assistant II-A, \$364.50-\$435.50/mo., Financial Aid Dept. Duties include receiving, directing and referring student inquiries by in-person contacts/telephone; processing short-term/emergency loan applications; processing incoming mail; typing and filing of forms, letters, reports; other clerical duties as required. One year clerical experience, type 45 wpm, and must have taken the General Clerical Test. Hours of work: 1:00 pm to 5:00 pm. Closing Date: 3-29-79.

Assistant Cashier-Clerk, \$729-\$871/mo., Financial Operations. Duties: receives and receipts for money; checks, balances and reconciles cash statements; keeps records of cash transactions and receipts issued; operates a ten-key adding machine and typewriter (typing test not required), does simple posting work; prepares reports and recapitulations on work done. Requirements: One year experience in cashiering work preferred and must have taken the General Clerical Test. Closing Date: 4-5-79.

Intermediate Account Clerk, \$729-\$871/mo., Financial Operations. Responsible for accounts receivable invoicing and control for student fees; maintains records of amounts due from sponsors and from individual students and balances to control accounts; conducts follow-up and collection actions. Requirements: One year experience in keeping or reviewing financial records, and must have taken the General Clerical Test. Closing Date: 3-29-79.

Student Affairs Trainee, \$1005-\$1101/mo., Temporary-help position to March 31, 1980. Placement Center. Will perform such

duties as graduate follow-up studies, presentation of workshops on job skills preparation, conduct a job development program, participate in the on-campus recruiting program, support employer relations and be the principle student advisor for Business, Science and Math placement programs. Requirements: Equivalent to graduation from a four-year college or university in one of the behavioral sciences, public or business administration or a job-related field. Placement Center experience highly desirable. Closing Date: 3-29-79.

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, \$26,088-\$31,524 for 12 month appointment effective September, 1979. Architecture Department, School of Architecture and Environmental Design. Duties include teaching, as well as planning, organizing, and directing the work of the department within the total structure of the School and the academic administration of the University. Eligible to receive tenure on the faculty but not in an administrative position. Qualifications: evidence of administrative competence; teaching experience in an accredited architecture program; a professional degree in architecture and a master's degree in architecture or related field or certified foreign equivalent; architectural experience at a senior level of responsibility; architectural registration by examination in the U.S. or equivalent foreign license. Candidates are preferred with advanced degrees, applied research experience, and a record of professional and civic involvement. Apply to the Dean, School of Architecture and Environmental Design. Closing Date: 4-27-79.

Department Head, \$17,940-\$27,348/year, depending upon qualifications. Construction Dept., School of Architecture and Environmental Design. Full-time position

to teach courses in the major with part-time administration. Emphasis on teaching Construction practice and theory, mainly in laboratory classes. A Master's degree with approximately 15 years in responsible construction operations and administrative experience desired. Background in engineering, heavy construction and computer applications desirable. There is no tenure in Department Head position; however, tenure on the teaching faculty can be awarded under current University guidelines. Starting Date: September, 1979. Application closing date: 5-4-79. Send resume to Dean, School of Architecture and Environmental Design.

Lecturer, \$950-\$1142/quarter, Education Dept., School of Education and Human Development. Duties include teaching ED 528, Advanced Counseling Critique. Candidates must possess a doctorate in counseling or equivalent. Appointment for Spring Quarter, 1979. Closing Date: 3-23-79.

Lecturer, \$14,256-\$17,136/year, for full-time appointment depending upon qualification and experience, Economics Dept., School of Business. Position available September, 1979. We are interested in good undergraduate instruction, primarily in introductory courses. Ph.D. preferred, with specialization in one or more of these fields: Labor economics, urban economics, and/or transportation economics. Closing Date: 4-30-79.

Assistant/Associate Professor, \$15,624-\$21,624 for 1979-80 academic year, Management Dept., School of Business. Duties may include teaching some combination of courses including Production and Operations Management, Industrial Management, Organizational and Management Theory and Business Strategy and Policies. Tenure track position. Prefer candidates with doctorate with a major in Management or ABD's nearing completion with industrial, government, management consulting and lecturing experience. Closing Date: 4-30-79.

Lecturer(s), \$13,008-\$15,624/academic year, Salary quoted is for full-time and will be adjusted according to assignment. Metallurgical and Welding Engineering Dept., School of Engineering and Technology. Part-time teaching positions available for the Spring Quarter, 1979 (March 22, 1979). Duties and responsibilities include teaching a varying number of units in metallurgical engineering lab classes in heat treating, metallurgy, corrosion control, failure analysis, non-destructive examination procedures, etc. Bachelor's Degree in Metallurgical Engineering and current equivalent industrial experience desirable. Professional engineers registration desirable. Closing Date: 3-22-79.

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

John Nicolaldes, Head, Aeronautical Engineering, spoke on the subject "Will It Fly?" at the Santa Maria Chamber of Commerce meeting in February.

Joe Harper, Head, Football Coach, for the past 11 years, has been appointed to the NCAA Football Rules Committee. He was appointed to a three-year term beginning in Sep. 1979.

Joanne B. Ruggles, Art, has had a drawing accepted in the Appalachian National Drawing Competition, juried by Dr. Brian O'Dougherty, Director of the National Endowment for the Arts/Media Arts Program. The exhibition will be open from Feb. 26-March 30 in Farthing Art Gallery, Appalachian State University, Boone, North Carolina.

Philip Ruggles, Graphic Communications, recently completed a four-month consulting position with the Department of Commerce/National Oceanic and Atmospheric Administration (NOAA). Ruggles developed seven complete training programs, with accompanying evaluation systems, for NOAA's 350-person aeronautical and nautical map reproduction facility in Washington, D.C.

Joanne B. Ruggles, Art, has a selection of her new works included in "Monoprints Only", a display of print works of 16 American artists, selected last spring by judges on the faculty of Allegheny College. The exhibition is on display at Bowman and Penelec Galleries, Allegheny College, Meadville, Pa. from Feb. 8 to Mar. 9.

John D. Lawson, Director Emeritus, Activities Planning Center, was recently elected president-elect of the California College Personnel Association, to take office in February 1980. The CCPA, a state branch of the American College Personnel Association, represents all segments of higher education in California: U.S., CSUC, community colleges and private universities and colleges.

Edgar Carnegie, Agricultural Engineering, was selected as Engineer of the Year by the Pacific Region of the American Society of Agricultural Engineers at its recent meeting in Bakersfield. Carnegie is project leader on the solar dehydrator being installed near Fresno for a dried fruit and vegetable processor.

Daniel Small, M.D., Student Health Center, has recently been certified as a diplomate in internal medicine by the American Board of Internal Medicine. The diplomate, awarded upon the basis of examination, qualifies Dr. Small for inclusion in the Directory of Medical Specialists, the only official listing of all certified physicians, according to the American Board of Internal Medicine. He recently spoke on "HLA Antigens" at the regular monthly meeting of the Medicine Department at Sierra Vista Hospital.

P.C. Pendse and Dirk Walters, both Biological Sciences, attended a two day Chautauqua short course at Stanford University on Feb. 26-27. The subject was "Reproductive Biology of Flowering Plants." Dr. Walters presented a paper on "Flowering Plant Reproductive Biology" and Dr. Pendse presented a report on "Some Observations on Oak Acorn Productivity in San Luis Obispo County."

Jeanette Reese, Health Educator, Health Center, attended the second annual Peer Counseling Conference, University of Southern California, Feb. 22-24.

Poly's influence pegged at 38 million

A revision of a 1974 study of the economic impact of Cal Poly City and County of San Luis Obispo was reported recently to the San Luis Obispo Chamber of Commerce. Lowell H. Dunigan (Director, Institutional Research) provided a table of estimates of Cal Poly's economic impact based on the 1973-74 report. The table is attached to this issue of Cal Poly Report.

Dunigan told Chamber Board members, who were being hosted at Cal Poly for their regular Board meeting, that the estimates are conservative. Nevertheless, they show that estimated total expenditures by students have risen from \$23.9 million in 1973-74 to \$37.7 million in 1978-79. Comparable increases were noted in other major areas of economic impact. The estimated spending by university employees rose during the period from \$14 million to \$23.3 million. Three other sources of community income related to Cal Poly were an estimated current spending of \$7 million for

operating expenditures (supplies, equipment, etc); an estimated \$3.6 million by Cal Poly visitors including out-of-town visitors to the annual Poly Royal open house and participants in hundreds of other group meetings held on campus during the year; capital outlay for campus construction, approximately 1.8 million this year; and the induced investment in community housing representing another \$1.8 million for the year.

Dunigan said the estimated total direct economic impact of Cal Poly has grown from \$47.8 million in 1973-74 to \$74.2 million this year. Because direct expenditures create jobs and service requirements in the local area, economists generally recognize a multiplier effect. A conservative multiplier effect of 1.2-1.5 would result in an economic impact from \$89 million to \$111.3 million for the current year, compared to a range of \$57.4 million to \$71.7 million five years ago.

Dunigan, who is responsible for the statistical studies that project Cal

Poly's enrollment and other institutional programs, pointed out to the Chamber that about 80 per cent of Cal Poly students have a geographic origin outside of the County of San Luis Obispo. While attending Cal Poly, about 62 per cent of the students live within the city limits, 20 per cent live on campus, and 18 per cent reside elsewhere in the county. Dunigan also noted that 70 per cent of Cal Poly's employees live within the City of San Luis Obispo.

Dale W. Andrews (Acting President) serves on the Board of Directors of the Chamber of Commerce as Cal Poly's representative and hosted the campus meeting. Board Directors also received an invitation to attend Poly Royal April 27 and 28 from Poly Royal Queen Robin Vilsoet, members of her court, and Poly Royal superintendent, Julie Adams.



ESTIMATED ECONOMIC IMPACT OF CAL POLY, SAN LUIS OBISPO, ON
LOCAL COMMUNITY AND AREA, 1973-74, 1975-76, AND 1978-79

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Economic Impact Factors	1973-74	1975-76	1978-79
A. <u>Cal Poly Students and Expenditures</u>			
1. Average enrollment, fall, winter, spring	12789	14779	15300
2. Average students living off-campus (80%)	10231	11823	12240
3. Est expense for room and board, per student <u>1/</u>	\$ 1300	\$ 1500	\$ 1800
4. Est impact on local area (2 x 3) (millions)	\$ 13.3	\$ 17.7	\$ 22.0
5. Est average expenditures for transportation and other personal expenses, excluding fees, books and supplies <u>1/</u>	\$ 608	\$ 635	\$ 710
6. Est impact on local area (1 x 5) (millions)	\$ 7.8	\$ 9.4	\$ 10.9
7. Summer quarter and summer session enrollment	4394	5007	5781
8. Est expenditures per student at 1/3rd AY	\$ 636	\$ 712	\$ 837
9. Est impact on local area (7 x 8) (millions)	\$ 2.8	\$ 3.6	\$ 4.8
10. Est total expenditures by students (4 + 6 + 9)	\$ 23.9	\$ 30.7	\$ 37.7
B. <u>University Employees and Expenditures</u>			
1. Positions in Final Budget, all funds <u>2/</u>	1747	1974	2168
2. Total salaries and wages Final Budget <u>2/</u> (millions)	\$ 21.9	\$ 28.0	\$ 34.8
3. Est payroll after all deductions (64%) (millions) (Includes effect of Foundation and ASI)	\$ 14.0	\$ 17.9	\$ 22.3
C. <u>Operating Expenditures in Local Area</u>	(Millions)	(Millions)	(Millions)
1. University total OE and equipment <u>2/</u>	\$ 4.0	\$ 7.5	\$ 10.1
2. Est impact on local area at 30%	\$ 1.2	\$ 2.2	\$ 3.0
3. Foundation total OE and equipment	\$ 5.2	\$ 6.6	\$ 8.8
4. Est impact on local area at 45%	\$ 2.3	\$ 3.0	\$ 4.0
5. Est total OE impact (2 and 4)	\$ 3.5	\$ 5.2	\$ 7.0
D. <u>Estimated Expenditures by Visitors</u>			
The 1973-74 study estimated \$2 million from Poly Royal (58,000 visitors at \$35 each) plus about \$1.0 million from the hundreds of other groups meeting on campus, overall, about \$235 per student for academic year.	\$ 3.0	\$ 3.5	\$ 3.6

ESTIMATED ECONOMIC IMPACT OF CAL POLY, SAN LUIS OBISPO, ON
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Page 2 of 2

Economic Impact Factors	1973-74	1975-76	1978-79
E. <u>Estimated Capital Outlay Expenditures</u>	(Millions)	(Millions)	(Millions)
Average expenditures over 5-10 years with 58% estimated as spent within County of SLO	\$ 1.6	\$ 1.6	\$ 1.8
F. <u>Induced Investment in Community Housing</u>			
Average expenditures 1963-1973 due to Cal Poly, with 70% estimated spent within the County.	\$ 1.8	\$ 1.8	\$ 1.8
G. <u>Estimated Total Direct Economic Impact</u>	\$ 47.8	\$ 60.7	\$ 74.2
H. <u>Estimated Multiplier Effect on Local Area</u>			
A range of 1.2 to 1.5 is estimated for multiplier effects on local income and employment from direct economic impacts.	\$ 57.4 to \$ 71.7	\$ 72.8 to \$ 91.0	\$ 89.0 to \$ 111.3
I. <u>Comparative Data - Taxable Retail Sales from California Statistical Abstract</u>	<u>1973</u>	<u>1975</u>	<u>1977</u>
City of San Luis Obispo	\$ 111.8	\$ 139.3	\$ 191.0
County of San Luis Obispo	\$ 292.8	\$ 363.1	\$ 536.4

Notes

1/ Estimates for room and board, transportation, and other personal expenses are conservative since they reflect costs for on-campus residents, while off-campus costs are generally estimated at \$500 or more higher by the Cal Poly Financial Aid Office and by the CSUC system.

2/ CSUC Detailed Budget Allotments, Final Budget.

Geographic Situation: About 87% of total students have a geographic origin outside the County of San Luis Obispo. While attending Cal Poly, about 62% live in the City of SLO, 20% on-campus, and 18% throughout the County. About 70% of Cal Poly employees live within the City of San Luis Obispo. Overall, about 75% to 80% of the total economic impact is estimated for the City of SLO.

L. H. Dunigan, Director of Institutional Research
California Polytechnic State University
February 28, 1979

encouraging notes

March 15, 1979

U.S. DEPARTMENT OF THE INTERIOR - WATER RESEARCH AND DEVELOPMENT. The Office of Water Research and Technology (OWRT) will consider for FY 1979 funding, research and development proposals relating to Water Reuse and Saline Water Conversion, and research proposals for Water Conservation and Water Problems of Urbanizing Areas.

OWRT encourages the submittal of preproposal statements summarizing your proposed research or development. These preproposal statements will be informally reviewed by OWRT and you will be advised whether submittal of a detailed proposal is encouraged. A notice of non-interest will not, however, preclude the submittal of a formal proposal. Preproposals should not exceed four pages.

<u>Priority Programs</u>	<u>Projected FY 1979 Funds</u>	<u>Typical Range of Awards</u>
Water Research:		
Water Conservation	\$ 750,000	\$35,000 - \$100,000
Water Problems of Urbanizing Areas	100,000	35,000 - 100,000
Water Reuse:		
Research	1,300,000	20,000 - 120,000
Development	2,150,000	40,000 - 200,000
Saline Water Conversion:		
Research:		
Membranes	1,700,000	50,000 - 150,000
Thermal	300,000	50,000 - 150,000
New Concepts	400,000	50,000 - 150,000
Development:		
Membranes	4,000,000	Widely Variable
Thermal	700,000	Widely Variable

Proposals may be submitted to OWRT at any time. However, to allow adequate time for review, selection, and necessary grant or contracting actions, initial selection for FY 1979 funding will be made from formal proposals received in OWRT by May 1, 1979. Proposals submitted by members of the academic community will be transmitted to OWRT through the State Water Resources Research Institute. Dr. J. Herbert Snyder, Director, Water Resources Center, University of California, Room 475, AOB-3, Davis, California, 95616, telephone: 916-752-1544.

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NATIONAL SCIENCE FOUNDATION - ETHICS & VALUES IN SCIENCE AND TECHNOLOGY. The central concern of the Ethics & Values in Science and Technology (EVIST) Program is with the ethical rules and social standards that govern the conduct of scientific and technological activities. Projects may deal with issues in the education and professional conduct of scientists and engineers, issues of obligations and constraints associated with institutions and organizations, issues associated with new developments in science and technology, the effects of changing ethical and social values and expectations upon scientific priorities and upon the conduct of scientific and technological activities, and finally, ethical issues and value assumptions in decision-making processes involving science and technology.

Activities may include disciplinary and multidisciplinary research, workshops of national scope, colloquium and projects that lay a foundation for future work related to EVIST objectives, such as compilations of archival materials, bibliographies, and so on.

Preliminary proposals are required and due at NSF on May 1 (and September 1), formal proposals are due August 1 (and December 1).

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DEPARTMENT OF ENERGY - PASSIVE SOLAR IN FINAL ROUND OF COMMERCIAL DEMONSTRATIONS.

The fourth and final round of demonstration projects for commercial buildings to be funded under the Solar Heating and Cooling Demonstration Act of 1974 (P.L.93-40) is being planned by the Department of Energy (DOE).

This round of projects will emphasize energy-conserving buildings that use passive solar designs supplemented, if appropriate, with active solar heating systems.

In mid-April, DOE expects to issue the program opportunity notice (PON-4) which will solicit proposals from interested parties for the design and installation of passive and passive/active solar heating systems and passive cooling systems in commercial and light-industrial buildings. It does not allow proposals for active solar cooling systems.

Deadline for acceptance of proposals is planned for the end of May and contracts are expected to be awarded by the end of September.

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NSF - INFORMATION SCIENCE RESEARCH. Research proposals on information science are being sought by the Division of Information Science and Technology of the National Science Foundation's Directorate for Scientific, Technological and International Affairs. NSF supports basic and applied research in information science to advance understanding of the properties and structure of information and to contribute to the store of scientific knowledge applicable to the design of information processing systems. In the selection of projects to be supported, preference is given to research that is fundamental and general and to applied research that is concerned with scientific and technical information rather than, for example, business information or mass communication.

Special Research Initiation Awards are available for new investigators in information science. The awards are available only to principal investigators who will, by the beginning of their award, have earned a doctoral degree in a field related to information science, including the information, computer, cognitive, and mathematical sciences, linguistics, and electrical engineering; and will have held the doctorate for no more than five years as of April 15, 1979. Applicants must apply for an award of either one or two years' duration. Awards are not expected to exceed one person-year of professional salary plus associated costs and project expenses. Proposals must be submitted by April 15, 1979.

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NASA - MATERIALS PROCESSING INVESTIGATIONS ON SPACE SHUTTLE MISSIONS GRANTS.

The purpose of this program is to develop experiments to be performed on flights of the Space Shuttle and Spacelab. Investigations are sought from the applied and basic research branches of material science where the mean weightlessness and ultra high vacuum obtainable in orbital flight can be exploited to unique advantage. Deadline is April 25, 1979.