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# CAL POLY REPORT

California Polytechnic State University  
San Luis Obispo, California 93407

May 8, 1980

Volume 31, Number 35

## 'Ethics and Energy' talk

"Ethics and Energy" is the title of a lecture to be given by a nationally recognized consultant on ethics and nuclear waste disposal at Cal Poly on Thursday (May 15). Margaret N. Maxey's free lecture will begin at 11:10 am in the Cal Poly Theatre. Both the public and members of the campus community are invited to attend.

Presently assistant director of the South Carolina Energy Research Institute, Dr. Maxey is a consultant on nuclear waste disposal for the Lawrence Livermore Laboratory. She earlier was an ethics consultant with the National Council of Churches. She holds degrees in philosophy, theology, and Christian ethics from Creighton University in Nebraska, St. Louis University, University of San Francisco, and Union Theological Seminary in New York City.

Dr. Maxey is a member of the American Association for the Advancement of Science; the American Society of Christian Ethics; the Institute on Religion in an Age of Science; the Institute of Society, Ethics, and the Life Sciences; and the American Nuclear Society. Dr. Maxey's lecture on May 15 is being presented by the School of Engineering and Technology in conjunction with the School of Communicative Arts and Humanities.

## Bromley heads Elderhostel

For 26 years Philip Bromley stood behind a podium lecturing to Cal Poly agriculture classes. But since his retirement in 1973, he has been a student in many of the same classrooms in which he once taught. "It took me eight years to get my first bachelor's degree in business at USC and it's going to take me 40 years to get my second one in soil science at Cal Poly," Bromley said with a smile.

Bromley, 72, saw his retirement as an opportunity to pursue interests in food production that he had not had enough time for during his years of teaching. Because he believes that education can have lifelong benefits, he has agreed to coordinate Cal Poly's first Elderhostel this summer.

Elderhostel is a nationwide educational program for people who are age 60 and over. From a workshop on the University of New Hampshire campus in 1975, the program has grown to become a network of over 300 colleges which offer low-cost, one-week summer academic programs for older citizens.

Bromley first became interested in Elderhostel last fall after talking to Ambrose Nichols, retired president of Sonoma State College, about the phenomenal success of that campus' Elderhostel. With Dr. Nichols' encouragement, Bromley began working to institute a similar program at Cal Poly.

"It's an opportunity for retired people to keep on learning and experiencing

new things," Bromley said. "They can combine travel and learning." From Sunday (Aug. 17) through Saturday (Aug. 23) at least 50 Elderhostelers from all over the United States will attend three classes per day at Cal Poly, live in a campus residence hall, and eat with other students in the dining hall.

Bromley said Elderhostel courses must be taught by regular faculty members or by other qualified instructors. The only requirement for admission to the program is that those enrolled be at least age 60 or married to someone of that age. There are no grades or homework so that participants have time to take advantage of San Luis Obispo's cultural activities and scenic spots.

One of the rules made by the national Elderhostel organization is that participating campuses charge a maximum of \$130 per week a person. The low cost insures that people from all income brackets are able to afford the fee. "We want to make sure that people who worked hard during their professional life have a chance to enjoy themselves during retirement," Bromley said.

There are still a few spaces left for this summer, but Bromley pointed out the program is filling quickly. Those who would like more information can write to "Elderhostel, Cal Poly, San Luis Obispo, Calif., 93407," or telephone Ext. 2053.

## Faculty promotions extended

The date for announcing faculty promotions has been extended from May 1 to June 2, according to President Warren J. Baker. While recognizing that the delay will be disappointing to promotional candidates, Dr. Baker said the additional evaluation time is needed because of the large number of faculty being considered and the need for time to do a thorough review of the individual applications. Notifications of the extension were sent to candidates for promotion on April 30.

## Last day for CAR registration forms

Friday (May 9) is the last day for continuing students to submit CAR forms for Summer Quarter 1980. Forms are available from the academic departments. Schedules (with instructions) are available at the Bookstore. Any questions may be referred to the CAR Office, Trailer 52-T2 at Ext. 2816.





## 'The Fantasticks' opens Thursday

Love, a simple word, but a complex feeling, is the focus of the musical play "The Fantasticks," to be presented Thursday through Saturday (May 15, 16 and 17). It is a funny, real and at times bittersweet story, told in words, song and dance. It is among the most popular of American musicals. The characters are few. As the narrator, played by Greg McConnell, says "it's a boy, a girl, two fathers and a wall."

The tale is of two fathers scheming to make each of their children fall in love with the other, and the problems that ensue when the children realize what their fathers have done. The boy and girl must learn about life as they struggle with these problems before they can recognize their love for each other.

"With a few deft strokes, the author creates these emotions and thoughts," said Michael Malkin (Speech Communication), director of the show. "With incredible economy, he makes it very real." Dr. Malkin noted that the boy's first lines are a three-time repetition of "There is this girl." From just those three lines the audience begins to understand the boy's character.

Love's complexity is what makes the 'simple' love story not so simple. The actors must rehearse diligently for the audience to believe the gentle reality of young love. The boy Matt and the girl Luisa, played by Brad Zumbro and Melissa Martin, and the other characters, rehearse over 28 hours each week, going over and over each scene, striving for that reality. The other characters are Hucklebee, Bellamy, Henry, Mortimer, and the Mute.

The opening song, "Try to Remember," sets the mood for the show, a remembrance of past events. The rest of the music, like the show, is both lively and beautiful, boisterous and sweet. All of the songs must be integrated fully with the rest of the show. Each song should not stand out as a song, but rather flow smoothly from the rest of the dialogue.

"The Fantasticks," a musical play, will be presented by the Speech Communication Department on Thursday, Friday and Saturday (May 15, 16 and 17). Reserved seat tickets for the performances, at 8 pm in the Cal Poly Theatre, are available for \$3 from the University Union ASI Ticket Office. Any remaining tickets will be available at the door before each performance.

## DeBellis exhibit at CSUC headquarters

Centuries-old Italian books, manuscripts, artifacts, and 18th century graphics from the Frank V. de Bellis collection will be displayed May 19 through June 27 in the headquarters of The California State University and Colleges, 400 Golden Shore, in Long Beach. The exhibit consists of a selection of artifacts from the first, fourth, and sixth centuries A.D. such as a wine pitcher, Roman bronze lamp, and statuette.

It also includes manuscripts from the 15th century, Breviary Augustinian (North Italian, ca. 1450), Francesco Petrarco ("Il Petrarca" 1568), poetry of Eugenio Montale (1973), literature of Pietro Bembo (1530), art by Vitruvius Pollio (1556), music by Lucantonio Guiunta (1513), and Giovanni Battista Piranesi's "Le Antichita Romane" (published, 1756).

The De Bellis collection historically documents Italian contributions to the development of Western culture. It reflects the depth and breadth of the original collector's love for this subject. Frank de Bellis, who died in 1968,

donated the collection to the CSUC in 1964. It consists of 12,000 volumes, ranging from an 1100 A.D. "Commentary on the Gospel" by St. Augustine to contemporary works, and encompasses an archive of 22,500 pieces of recorded music, including 5,000 musical scores of early and modern manuscripts in the notation of the 14th and 18th centuries.

The collection is permanently displayed in the library at San Francisco State University for the use of students, faculty and researchers. Through the continued efforts of de Bellis' widow, Serena de Bellis, who is curator of the collection, it continues to grow. Portions of the vast collection have been made available to the various CSUC campuses including Cal Poly throughout the years for viewing.

The exhibit will be available for public viewing weekdays (except for the May 26 Memorial Day holiday) from 9 am to 4 pm in the foyer and main floor corridors of the Long Beach headquarters, leading to the Trustees Conference Center.

## Band selections announced

A new 60-member symphonic band composed of musicians who have performed as students at Cal Poly over the past 16 years will make its premiere appearance during the annual Spring Band Concert on Saturday (May 17). Scheduled for 8:15 pm in Chumash Auditorium, the concert will also feature the 65-piece Cal Poly Symphonic Band and the 21-piece Cal Poly Studio Band.

Tickets for the concert are priced at \$3 for adults and \$1.50 for students. They are being sold in advance at the University Union ticket office and by members of the bands. Remaining unsold tickets will be available at the ticket office prior to concert time on May 17.

William V. Johnson (Music), conductor of the university band, said those in the alumni band are all fine musicians who are still engaged in community bands and orchestras throughout the state.

"Those who attend the May 17 concert are in for a real treat when they hear our Alumni Symphonic Band perform Ralph Vaughan Williams' 'English Folk Song Suite.' " Johnson said the theme for the music selected for the concert is "Great Band Music from Great Britain."

In addition to numbers by Vaughan Williams, Percy Grainger, Gustav Holst, and Gordon Jacob, music by George F. Handel, Chuck Mangione, Hank Levy, and John Philip Sousa will be included.

The Spring Concert will be the final concert performance of the 1979-80 season for the Cal Poly Symphonic Band. Its last appearance of the year will come on June 14, when it will take part in the annual commencement program.

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**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.

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**Cal Poly Dateline** is compiled by the Public Affairs Office, Adm. 401, Ext. 2246, and is published on Mondays. 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.



## Commencement invitation

Any Cal Poly faculty or staff member who holds a baccalaureate degree or higher is invited to participate in the commencement procession and ceremony in Mustang Stadium on Saturday (June 14). The procession will begin from eight different locations and the stadium program will last from 10:30 am to approximately 12 noon.

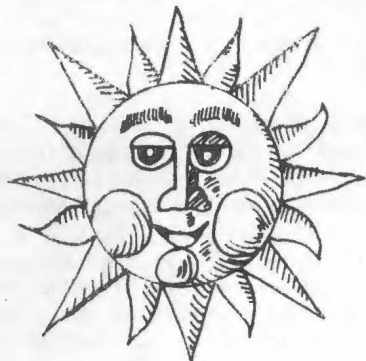
Please notify the appropriate department head or supervisor so that information may be furnished. Department heads and supervisors are asked to report a count of participants by memo or phone to Wes Conner, Coordinator of School Marshals, in the School of Agriculture no later than May 23.

## Foundation board meeting

The Board of Directors of the California Polytechnic State University Foundation will hold a regular meeting on May 19, 1980 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.

In the April 23, 1980 issue of *The Chancellor Comments*, the dates for the forthcoming meeting of the Board of Trustees were noted incorrectly as "May 23-24."

The correct dates are May 27-28.



## 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 interested persons are encouraged to apply.

CSUC Board of Trustees has recommended a general 11% cost of living increase effective July 1, 1980

### READVERTISEMENT:

**Procurement and Support Services Officer III, \$1,985-\$2,394/month.** Business Affairs Division. Duties: Responsible for management, direction and planning of Procurement and Support Services sections: Contracting, Insurance Management, Purchasing, Reproduction, Communications, Clerical Services, Transportation, Receiving, Stores and Mail Services. Requirements: Minimum of three years of business management experience. Equivalent to graduation from a four-year college or university in business administration, accounting, public administration or a related field. Closing date: 6-2-80.

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

**Ralph G. Gentile, Electrical Engineering,** received a distinguished service award at the sixth annual meeting of the Industrial Electronics and Control Instrumentation Society (IECI) of the Institute of Electrical and Electronics Engineers, held March 17-20 in Philadelphia. The award recognized Dr. Gentile's contributions to electrical engineering and education, and his services to the IECI Society as an officer and member of the Administrative Committee.

**A. Charles Crabb and Sherman A. Phillips, both Crop Science,** attended the 22nd Annual Entomology meeting sponsored by the Department of Entomology, University of California, Riverside, March 25-26.

**F.J. O'Toole and K.W. Walker, both Philosophy,** attended the Pacific Division meeting of the American Philosophical Association in San Francisco from March 27-29.

**Judy D. Saltzman, Philosophy,** attended the American Academy of Religion at the Graduate Theological Union in Berkeley, March 27-29.

## FOUNDATION VACANCIES

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

**Supervising Accounts Payable Clerk, \$1007-\$1206/month and full employee benefits.** Business Office. Minimum requirements: High School graduation plus 12 semester units of business or accounting courses at the college level and two years of bookkeeping or accounts payable experience including one year of supervising experience. Closing date: 5-22-80.

**Clerical Assistant II-A, \$843-\$1007,** 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 equivalent, minimum typing 45 wpm. Closing date: 5-22-80.

**MSG Frederick E. Smith and SSG Dennis E. Tamasovich, both Military Science,** were presented Army awards for meritorious service in their assignments prior to coming to Cal Poly. MSG Smith received the Meritorious Service Medal for his service as an Operations Sergeant in a Special Forces Detachment at Fort Devens, MA. SSG Tamasovich received the Army Commendation Medal for his service as an Administrative Supervisor with the 160th Signal Brigade at Karlsruhe, West Germany.

**Harry Fierstine, Biological Sciences, and Ralph Jacobson, Chemistry,** attended the annual meeting of the Western Association of Advisors for the Health Professions which was held in conjunction with the Western Medical Schools at Asilomar Conference Grounds, Pacific Grove, April 13-16. Workshops and discussions informed the advisors on the up-to-date advising information for all the health professions. Dr. Fierstine moderated a panel on Medical Technology and Dentistry.

# 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 interested persons are encouraged to apply.

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**Lecturer, \$4,156-\$4,548/quarter, to be adjusted according to teaching load,** Biological Sciences Department, School of Science and Mathematics. The Department seeks to compile a list of applicants for part-time lecturers during various quarters of the 1980-81 academic year and Summer Quarter, 1981, to teach one or more courses in biological sciences. Applicants should list each relevant course (lecture and lab) they wish to be considered for. Applicants must have a B.S. in Biology or related discipline. Those currently enrolled in the department's graduate program will be given preference. Closing date: 5-30-80.

**Lecturer(s), Part-time; \$14,940-\$17,940/year, dependent upon qualifications and experience,** Ornamental Horticulture Department, School of Agriculture and Natural Resources. Position(s) available for the 1980-81 academic year. Duties include teaching undergraduate courses in Fundamentals of Ornamental Horticulture, Nursery Production, Plant Materials and other undergraduate courses in ornamental horticulture. Master's Degree in Ornamental Horticulture or closely related field plus commercial or teaching experience. Closing date: 5-23-80.

**Lecturers, \$4,980-\$10,472/quarter, based on 15-unit teaching load; salary varies with teaching load and qualifications,** Computer Science and Statistics Department, School of Science and Mathematics. Duties and responsibilities include teaching lower division statistics or computer science courses. Candidates for the statistics position must possess an M.S. in statistics or related area. Candidates for the computer science position must possess an M.S. in computer science. Preference will be given to candidates with demonstrated excellence in college or university teaching and/or industrial experience involving applied statistics or computer science. Appointment for Fall and/or Winter and/or Spring Quarters, 1980-81. Closing date: 5-23-80.

**Lecturer, \$4,980-\$6,560/quarter, to be adjusted according to teaching load,** Biological Sciences Department, School of Science and Mathematics. The Department seeks to compile a list of applicants for part-time lecturers during the various quarters of the 1980-81 academic year and Summer Quarter, 1981, to teach one or more courses in the biological sciences. Advanced degree in biological sciences or related discipline preferred. Applicants should list each relevant course (lab and lecture) they wish to be considered for. Closing date: 5-30-80.

**Lecturer, \$16,368-\$19,680/year, dependent upon qualifications and experience,** Philosophy Department, School of Communicative Arts and Humanities. Position available for the 1980-81 academic year. Duties include teaching large introductory philosophy courses, courses in traditional and modern logic. Applicants must either have a Ph.D. in philosophy or have completed all requirements for the Ph.D. except for the dissertation. Applicants must demonstrate broad philosophical knowledge. Teaching experience beyond teaching assistantships is desirable. Closing date: 6-2-80.

**Lecturers, \$5,456-\$6,560/quarter, based upon 15-unit teaching load and will be adjusted according to teaching load,** Social Sciences Department, Division of Social Sciences. Opening for part-time lecturers in Sociology and anticipated during the Summer, Fall, Winter, and Spring Quarters, 1980-81, in social work. Duties include teaching classes in Introductory Social Work, Methods of Social Work, and/or Social Work Practicum. MSW preferred. MA or Ph.D. in sociology will be considered. Closing date: 6-2-80.

**Lecturers, Part-time; \$4,156-\$6,560/quarter, based on a 15-unit teaching load and will be adjusted according to assignment,** Crop Science Department, School of Agriculture and Natural Resources. Assignments for Fall, Winter, Spring and Summer Quarters, 1980-81. Department is establishing a pool of applicants for possible part-time positions in crop science, fruit science, vegetable science, and plant protection. Advanced degree preferred. Closing date: 5-30-80.

**Lecturer, \$16,368-\$17,940/academic year,** Journalism Department, School of Communicative Arts and Humanities. Full-time appointment for the 1980-81 academic year. Duties: Teach news writing, reporting. Requires bachelor's degree and news media experience. Prefer graduate degree. Closing date: 6-10-80.

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

**Jens Pohl, Architecture, and Charles Miller, Cal Tech,** received a Certificate of Recognition and honorarium from the Jet Propulsion Laboratory Awards Board, in recognition of the publication of a NASA Tech Brief titled "Variable-Shape Solar-Energy Concentrator." The article was based on the development by Drs. Pohl and Miller of a number of lightweight, inflatable tracking solar collectors which the authors patented in 1977.

**Maria E. Ortiz, Biological Sciences,** attended the second session of the NSF Chautauqua-Type Short Course titled "Chronobiology: A New Dimension in Biology and Medicine" held at Santa Ana College, March 6-8.

**Harry Sharp Jr., and James W. Reed, both Speech Communication,** have been elected to the chairmanships of interest groups in the Western Speech Communication Association. Sharp will head up the Freedom of Speech Interest Group of the Association, while Reed leads the Speech Communication Education Group. As interest group chairs, they will plan the programs for their respective divisions at the 1981 convention.

**Y.C. Yong, Mechanical Engineering,** has just published an article titled "Modes of Vibration of Spheroids at the First and Second Resonant Frequencies" in the Nov/Dec, 1979, issue of the *Transaction of the American Society of Agricultural Engineering*.

**John C. Phillips and Sherman A. Phillips, both Crop Science,** attended a cereal grains field day near Shandon on April 29. Sponsored by the county Cooperative Extension, the field day featured variety trials and weed control studies being conducted by the University of California.

**Arthur L. Schwartz Jr., Business Administration,** published an article in the April, 1980, edition of *Real Estate Today*. The article is titled "The Secondary Mortgage Market."

**John K. Hampton Jr., Biological Sciences,** attended the Annual Meeting of the Federation of American Societies for Experimental Biology and the Annual Meeting of American Physiological Society in Anaheim, April 13-21. In the meetings Dr. Hampton listened to scientific papers relevant to his teaching and research areas, examined state of the art equipment for use in the biomedical sciences and discussed research interests with scientific colleagues.

# encouraging notes

May 8, 1980

## VISIT FROM NATIONAL SCIENCE FOUNDATION PROGRAM OFFICER -- REMINDER.

Dr. Arthur Ezra of the Directorate for Engineering and Applied Science of the National Science Foundation will be on campus Monday, May 12. He will review the programs in the Directorate in UU 220 from 10:00 to 12:00 A.M. Last week's "Encouraging Notes" summarized the six divisions of the Directorate.

PROPOSAL WRITING SEMINARS. This Quarter, the Coordinator, Research Development, will give two different sets of proposal writing seminars. The first, given Thursday, May 15, from 8:00 to 11:00 A.M., and repeated on Monday, May 19, from 9:00 to 12:00 A.M., will focus on the writing of research proposals. The second seminar, given Thursday, May 22, from 2:00 to 5:00 P.M., and repeated on Wednesday, May 28, from 1:00 to 4:00 P.M., will focus on instructional and institutional proposals. All of the seminars will take place in Fisher Science Conference Room 292.

SUMMER WORKSHOP ON PROPOSAL WRITINGS. During the Summer Quarter, a day-long workshop on proposal writing will be given by the Coordinator, Research Development. This workshop will go into detail concerning the narrative and budget of proposals, as well as examine several case studies. It will also allow time for the participants to begin work on their own proposals.

The workshop will be given a few weeks after the end of the Spring Quarter, on Wednesday, June 25, from 9:00 A.M. to 5:00 P.M. in Architecture 224. Please call the Research Development Office before Wednesday, June 18, for reservations.

## AWARDS. The following lists awards received by Cal Poly during the Winter Quarter:

- Norm Pillsbury and Walter Mark/Natural Resources Management -- received \$25,209 from NASA-Ames to map vegetation and inventory forest resources for Santa Cruz County.
- Richard Wiley/Metallurgical Engineering -- received \$500 from Omark Industries to establish a workshop for students to study various alloys for hardness.
- Mike Fitzpatrick/Electronic and Electrical Engineering -- received \$15,469 from Triad Systems Corporation to study parallel techniques for implementing double error correct codes in computer memory systems.
- Sandra Crabtree/Home Economics -- received \$7,000 from the California Department of Education to conduct a seminar for California home economic educators.

## REQUESTS FOR PROPOSALS. Requests for proposals have been issued in the following areas:

- Research on the characteristics of effective writing instruction in inner-city secondary schools,
- study of the impact of the implementation of computer technology in schools,
- research on how to promote sex equity in elementary and secondary classroom interactions,
- research on the training of higher cognitive and thinking skills.

For further information, contact the Research Development Office as soon as possible.



\* THE DEPARTMENT OF ENERGY PROGRAM GUIDE FOR UNIVERSITIES AND OTHER RESEARCH GROUPS. This publication describes Department of Energy research and development programs as well as procurement and assistance policies and procedures. The publication provides a single-source introduction to DOE; an overview of DOE outlay programs and projected budgets for FY 1980 and FY 1981; a summary of potential DOE research interests; and a brief description of the procurement and reporting processes applicable to contracts, grants, cooperative agreements, and other forms of Federal support.

\*\*\* SMITHSONIAN INSTITUTION. The Smithsonian has two programs of interest which support research in a broad range of subjects. The Foreign Currency program, directed primarily at senior research scientists, supports research by U.S. scholars in excess foreign currency countries. Awards are for one year but are renewable, and cover travel to and expenses in the foreign country. The Fellowship program for scholarly residence at the Smithsonian is designed to encourage scholars to come and work with the institution's scholars and make use of its specialized collections. Dissertation support of \$8,000 per year and post-doctoral research support of \$14,000 per year is available. The post-doctoral awards are directed at relatively new researchers, although there is also definite opportunity for senior scholars. For information on these programs, as well as on short internships for students, contact: Francine Berkowitz, Grants Specialist, Fellowships and Grants, Smithsonian Institution, Washington, DC 20560, (202) 381-5881.

\*\* OPPORTUNITIES TO IMPROVE EDUCATION.

Unemployed Youth - A Postsecondary Response Program. To increase educational and career opportunities for economically disadvantaged youth between the ages of 16 and 21.

DEADLINE: JUNE 11, 1980

Educational Equity Research Grants. To further the educational equity by supporting research and development and development studies in the substantive areas of educational equity theories; desegregation; multicultural bilingual education; and barriers to women's educational equity.

DEADLINE: JUNE 30, 1980

National Institute of Education Technology Grants. To improve the quality of, and the access to education through support of promising applications of technology, such as the delivery of educational services and instructions via satellite to the geographically isolated.

DEADLINE: JUNE 30, 1980

Vocational Education - Cooperative Education Program. To provide vocational education programs for persons who have academic, socioeconomic or other social handicaps that prevent them from succeeding in the regular vocational education programs.

DEADLINE: JULY 1, 1980

Behavioral and Social Science Research in Mental Retardation. To encourage and expand research into social-environmental factors affecting behavior and development in the mentally retarded and the interactive effect of biologic and social forces on cognitive development and social competence.

DEADLINE: JULY 1, 1980

Vocational Education - Special Needs Program. To provide vocational education programs for persons who have academic, socioeconomic, or other social handicaps that prevent them from succeeding in regular vocational education programs.

DEADLINE: JULY 1, 1980

\* Guidelines and/or application forms available in the Research Development Office.

\*\* Information Requested/Available Soon.

\*\*\* Contact Agency Directly.