



Volume 25, Number 39

May 21, 1974

## AT COMMENCEMENT REAGAN TO SPEAK



California's governor, Ronald Reagan, will give the commencement address when degrees are conferred on three thousand students at Cal Poly on Saturday (June 15). Selection of the Governor to take part in the campus ceremonies was announced by President Robert E. Kennedy and Bruce Snow, student chairman of the university's Senior Week Committee, after the Governor confirmed that he would accept the invitation.

The campus appearance at Cal Poly will be the third for Governor Reagan during his terms of office. He spoke at the inauguration of Dr. Kennedy in April, 1968, and attended a meeting of the Board of Trustees of The California State University and Colleges on campus in March, 1969. The 1974 Cal Poly Commencement, which will take place at 3:30 pm in Mustang Stadium, will be the 68th for the university.

### NEW SALARY SCHEDULE APPROVED

A new salary schedule has been approved by the Chancellor's Office, effective May 1, 1974, for certain administrative and support staff classes. These are classifications which were previously affected by the Economic Stabilization Board order limiting salary increases that had been approved by the Trustees of The California State University and Colleges for the 1973-74 fiscal year. When the Economic Stabilization Act of 1970 expired on April 30, 1974, restraints on the salary level of certain positions were lifted and the determination was made to make the salary increases effective May 1, 1974. A listing of those classes with new steps has been attached to this issue of Cal Poly Report.

These increases represent adjustments ranging from 2.5 percent to 17.5 percent (averaging approximately 4.7 percent for the classes affected) approved in the 1973-74 salary package. They do not affect current salary increase proposals now under consideration by the Legislature for 1974-75.



\* PRESIDENT ANNOUNCES AIR STRIP CLOSURE



Closure of the air strip on the Cal Poly campus has been called for by President Robert E. Kennedy. Dr. Kennedy ordered immediate steps taken to inform the Federal Aviation Administration that the university wishes to close the air strip as soon as possible and to have it eliminated from the FAA inventory. He said the action was taken following a recommendation by Executive Vice President Dale W. Andrews who conferred with other Cal Poly personnel and the legal staff of the Chancellor's Office of The California State University and Colleges.

President Kennedy said Dr. Andrews' recommendation made it evident that the risks involved in future use of the campus air strip were too great to justify continued operation of the air strip. He pointed out that there is no direct connection between the use of the air strip and the instructional curriculum of the Aeronautical Engineering Department or any of the other instructional programs in the School of Engineering and Technology which has had assigned responsibility for the air strip.

Dr. Kennedy announced that he has asked Dr. Robert G. Valpey (Dean, Engineering and Technology) to work with the FAA for closure of the air strip. He has also instructed the university's Space Allocation Committee to make proposals for use of the air strip land and to make recommendations for its use.

One fatal accident at the airport occurred during Poly Royal 1968 in which the occupants of a light plane were killed following takeoff. Dr. Kennedy said aircraft approaches to the air strip over the Cal Poly campus, including student housing which has been developed over the years, forced him to conclude that operation of the air strip is hazardous.

\* HEALTH CENTER SIDEWALK WARNING ISSUED

According to E. Douglas Gerard (Executive Dean), the temporary concrete sidewalk on the south side of the Health Center will be removed within the next two weeks. The Contractor, Don Greene Contractor, Inc., will be constructing the permanent walk within the fenced area which will be available for use when the temporary walk is removed. Pedestrians and bicyclists are cautioned to stay on the walkway as there will be construction activity and equipment still occurring in the area.

\* TRAVEL MILEAGE ALLOWANCES REVISED

Recent amendments to the State Board of Control Regulations resulted in several significant changes in mileage allowances, according to James R. Landreth (Director of Business Affairs). Effective May 3, 1974, the new mileage allowance for use of a privately owned vehicle, although a State vehicle is available, is at the rate of 11¢ per mile. Where a department head, dean, etc., has authorized travel and it has been determined that a State vehicle is not available, the allowance is at the rate of 15¢ per mile for the first 900 miles and 6¢ per mile thereafter. Although vehicle mileage rates have been raised, it is not anticipated that we will receive a 1973-74 fiscal year budget augmentation, Landreth said.



\* 1974 FACULTY PROMOTIONS ANNOUNCED BY PRESIDENT KENNEDY



The promotion of 77 Cal Poly faculty members, effective with the beginning of the 1974 Fall Quarter, has been announced by President Robert E. Kennedy. The promotions include 21 made to the Principal Vocational or Professor rank and 56 to the Senior Vocational or Associate Professor rank. The distribution by school of faculty members promoted is as follows:

Agriculture and Natural Resources	- 13
Architecture and Environmental Design	- 4
Business and Social Sciences	- 8
Communicative Arts and Humanities	- 10
Engineering and Technology	- 14
Human Development and Education	- 8
Science and Mathematics	- 19
Student Affairs Division	- 1

Dr. Kennedy noted that eleven faculty members who were recommended for promotion, but who have not been promoted at this time due to lack of funds, have been ranked in priority order of eligibility for promotion if and when additional funds become available for the current promotional cycle. No further evaluation process will be required for these individuals for promotion during the current cycle, he indicated. He said he has requested additional funds from the Chancellor's Office of The California State University and Colleges and has been advised that the Chancellor has asked the Department of Finance to make funds available. If the additional funds cannot be obtained, he said, the eleven faculty members will be eligible for consideration with others in the next promotional cycle.

\* RAY BRADBURY WILL AUTOGRAPH AT EL CORRAL BOOKSTORE

Ray Bradbury, famed science fiction writer, will be present in El Corral Bookstore for a book autographing session on Thursday (May 23) between 3 and 3:30 p.m. A large selection of paperbacks written by Bradbury will be on special display. Light refreshment will be served.

\* HIGH SCHOOL JUNIORS AGAIN INVITED TO CAL POLY

A repeat of a successful summer program will make it possible for high school juniors from throughout California to try their hands at university studies this summer. The special program for high school students who have finished their junior year will be offered beginning June 18 by Cal Poly.

As outlined in a brochure prepared by the university, the summer program for high school juniors is open to any high school junior who has a 2.8 grade average for his or her 10th and 11th grade studies. The student must register for at least nine units of university courses, pay regular student fees, and reside either in campus residence halls or with family or relatives while enrolled in the program. Those accepted will attend summer quarter classes along with other members of the university student body.

Faculty or staff members desiring copies of the brochure described above to send to prospective participants in the program may obtain them in the Admissions Office.



\* FIRST INDUSTRIAL ARTS SHOW WILL OPEN



The class projects of industrial arts students in secondary schools throughout San Luis Obispo and Northern Santa Barbara Counties will be displayed during the first annual Central Coast Industrial Arts Show on Friday and Saturday (May 31 and June 1) at Cal Poly. The show will take place in Chumash Auditorium will be open from 12 noon to 7 p.m. of May 31, and from 10 a.m. to 6

6 p.m. on June 1. Admission will be free and the public is invited to attend.

Jerry Busick and Ben Yates, cochairmen of the show, said more than 150 entries had been received from schools in Arroyo Grande, Atascadero, Cambria, Lompoc, Morro Bay, Nipomo, San Luis Obispo, and Santa Maria. Judging will take place during the morning of May 31.

Busick, like Yates, a graduate student, said the show is intended to give junior and senior industrial arts students a chance to display their work locally and to give visibility to high school industrial arts programs. "We hope by displaying their work to show that kids in industrial arts courses are just as sharp as those in other fields of study," he added. The two-day industrial arts show is being sponsored by Cal Poly's Industrial Technology Departemnt and Student Industrial Technology Society.

\* CAL POLY CHAMBER ORCHESTRA WILL PERFORM

The Cal Poly Chamber Orchestra, conducted by Clifton E. Swanson (Music), will perform Friday evening (May 24) at 8:15 pm in the Cal Poly Theatre. The public is invited to attend free of charge. Included on the program will be the Overture to Idomeneo by Mozart, the Suite No. 1 for Small Orchestra by Stravinsky, the Holberg Suite for Strings by Grieg, the first movement of Haydn's 'Cello Concerto in C-major (with John Hoyt as 'cello soloist), the Concerto in E-flat for two horns by Telemann (with Jane Swanson and Susan Carter as soloists), and the Magnificat by Vivaldi featuring the University Singers, conducted by John G. Russell (Music).

\* AIR TRANSPORT WILL BE LOCKHEED EXECUTIVE'S TOPIC

Future development of air transportation will be the topic when Dr. Ronald Smelt of Lockheed Aircraft Corporation gives a seminar presentation on Tuesday (May 21) at Cal Poly. The program, which will take place at 5 pm in Science North 215 is planned as part of a Transportation Engineering Department course on airport design and air transportation. Admission will be free and the public is invited to attend.

Dr. Smelt, who is chief scientist and corporate vice president of Lockheed Aircraft, is chairman of the advisory committee of the Federal Transportation Board and author of a number of scientific and technical papers on aerodymanics, supersonic flight, hypersonic flight, missiles, and space vehicles. Also chairman of the National Aeronautics and Space Administration's Research and Technology Advisory Committee, he received the Simms Gold Medal of the English Royal Aeronautical Society. Title of Dr. Smelt's seminar presentation at Cal Poly will be "The Development of Air Transportation to the Year 2000."



#### \* MID-EAST PEACE PROSPECTS WILL BE DISCUSSED

The prospects for peace in the Middle East will be discussed by a man who has been involved in many extensive studies about the Mideast situations and has consulted with top leaders of Israel and Palestine. Bernard Codner will speak in University Union Room 207 on Thursday (May 23). Codner's talk, sponsored by Cal Poly's Political Action Club and Political Science Department, will begin at 11 pm. Admission will be free.

Codner presently serves as assistant dean for continuing education, School of Business and Economics at California State University, Los Angeles. In 1970 and 1973 Codner was a member of a national study team, the American Professors for Peace in the Middle East. The group engaged in extensive consultations with leading Israeli political, military, and academic leaders, as well as with Palestinian political and intellectual figures, about the prospects for a peaceful resolution of the Mideast conflict.

#### \* DUKE WAYNE JOINS "BOOTS AND SPURS"

Movie super star John Wayne has been elected to honorary membership of Boots and Spurs, the organization serving the 650 animal science majors at Cal Poly. The honorary membership was conferred at the annual banquet of the club held at McClintock's restaurant in Pismo Beach, on Friday (May 11).

The club cited Wayne's projection of the image of the Westerner, his patriotism, and his role as a rancher in Arizona in honoring him for membership. In a letter response, Wayne accepted the honorary membership and expressed his regret at not being able to attend the banquet.

#### \* HEAD START EXECUTIVE WILL SPEAK

William Vernon Shields, who heads the Parent Child Guidance Center of the Head Start program in Los Angeles, will be the speaker for a program to be presented on Friday (May 24) at Cal Poly. The program will be presented at 11 am in University Union Room 220 under the co-sponsorship of the student Child Development Club and Child Development Department. Admission will be free and the public is invited to attend.

Shields, who will discuss the impact of ghetto and barrio environments and cultures on the pre-school child's chances for successful entry in the American larger society, is the author of books for volunteers in Head Start programs and a guide for directors of Head Start and state pre-school programs for the State of California. A graduate of Wilberforce University in Ohio and Goddard College in Vermont, he formerly was an administrator for federal youth programs in Indiana.

During his talk at Cal Poly, Shields is also expected to discuss the "open-free-flow" concept as he observed it in England. This is an education method in which the child is permitted to flow to the activities which most interest him.



\* HENDRICKS ELECTED AS PLANNERS PRESIDENT

Francis Hendricks (School of Architecture and Environmental Design) who teaches city and regional planning courses at Cal Poly is the newly-elected president of the California Chapter of the American Institute of Planners. Hendricks was elected and installed during the state conference of the organization of city and regional planners, which took place May 1-4 in Newport Beach.

Presently a resident of San Luis Obispo, he joined the Cal Poly faculty in 1969 after having taught at University of Pittsburgh and Stanford University and worked as a planner in private practice for a number of years. Hendricks is known among professional planners throughout California for his advocacy of the "systems" approach to city and regional planning. A graduate of University of California at Berkeley, where he earned his bachelor's and master's degrees, he is the author of many published papers and pioneering applications of simulation and system design that contribute to the planning process. Since joining the Cal Poly faculty, Hendricks has been instrumental in securing national AIP recognition of the university's planning program.

\* PORTUGUESE FOOD FEATURED AT VISTA GRANDE ON THURSDAY

Vista Grande Cafeteria will feature Portuguese Foods, Thursday (May 23) from 11 am to 1 pm, it was announced by John C. Lee (Director, Foundation Food Services). Special foods include: Almondegas (Meatballs) served with Seasoned Rice, Savory Kale, Portuguese Sweet Bread, Pudim de Bananas at a cost of \$1.65. Other items include Fried Linguica and Caldeirada (Boatman's Stew). All the above foods are also priced individually. During lunchtime, 11 am to 1 pm, there will be a demonstration of the preparation of Portuguese Sweet Bread (a golden holiday bread from the Azores) presented by Elsie Mello.

\* SINGERS TO BE HEARD IN CONCERT

Music in a variety of styles will be featured during an informal concert of the University Singers and Chamber Singers 11 am on Thursday (May 23). The concert will be presented in University Union Room 220 under sponsorship of the Cal Poly Music Department. Admission will be free and the public is invited to attend. John Russell (Music), director of both ensembles, said the repertoire of the choirs includes contemporary works, madrigals, a spiritual, and a magnificat for chorus and orchestra.

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- \* The return of excess supplies of inter-campus mail envelopes is being requested by the Duplication Center. Offices and departments that have quantities of the envelopes in excess of their needs are asked to return them to the Duplication Center, Adm. 129.



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

Robert E. Norris (Social Sciences) attended the annual meeting of the Association of American Geographers in Seattle on April 29-May 1. He participated in discussions in sections on political geography and on computer mapping for undergraduate instruction.

Timothy A. Gaskin (Ornamental Horticulture) attended the Turf and Landscape Institute at Anaheim on April 23-24. Turf problems and solutions were discussed by the participants.

Emile E. Attala (Computer Science and Statistics) presented a paper entitled, "How to use the NOVA Minicomputer as a Teaching Tool" at the Data General Corporation User's Group Conference in Chicago on May 7. He also attended the National Computer Conference and Exposition at McCormick Place, Chicago, May 6-10.

James Neelands, Dennis Homan, Harry L. Fierstine, Randy Grayson, Pat Pendse (all Biological Sciences) attended The College Science Improvement Program Conference at California State College, Bakersfield, May 10-11, where they participated in seminars on "Innovation in Biology". They also paid a visit to the Bakersfield Community College to study their multimedia instructional facilities.

Evelyn Reagan and Mary Louise Brady (both Library) attended a MARC-Only Conversion Workshop sponsored by the Chancellor's Office in San Francisco on April 29-30.

Barbara Weber (Home Economics) was a recent participant in three Media Tours sponsored by Western Agricultural Chemical Association as part of an on-going consumer education program. The three-person interview teams, consisting of an educator, a grower, and a home economist, met with members of the media in San Diego, Los Angeles and San Francisco, stressing the judicious use of agricultural chemicals essential in meeting the food and fiber needs of an expanding population.

Angelina Martinez (Head of Public Services, Cal Poly Library) will be returning to campus from a short-term assignment in Guatemala under the university's Institutional Development Agreement with the Ministry of Agriculture from that country. During her assignment Miss Martinez was providing intensive training in Library Science to staff of several libraries, as well as making recommendations on necessary reorganization and updating of the serveral libraries.

Charles B. Atlee (Crop Science), Scott Maughan (History), John P. Adams (Economics), Frederick Schantz (Ethnic Studies), and George Suchand (Social Sciences) attended a conference on Latin American economic developemnt at California State University, Los Angeles, on May 5-7. The conference was sponsored by the Agency for International Development.

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\* Typewritten copy intended for the next issue of Cal Poly Report must be received prior to 12 noon on Friday (May 24) in the Office of Information Services, Adm. 210. Copy intended for Cal Poly Dateline, which replaces the "Coming Events" section of Cal Poly Report and is published separately on Thursdays, is due in the Office of Information Services by 12 noon on the Tuesday before publication.



\* SUPPORT STAFF VACANCIES LISTED

Vacant support staff positions have been announced by S. Milton Piuma (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. Cal Poly is an Affirmative Action Employer. The positions are:

Departmental Secretary I-B (\$603-\$734), Placement Office, Student Affairs Division. Duties and responsibilities include performing general office clerical operational tasks; scheduling campus recruitment dates for company representatives as well as school district representatives. Assisting in editing and publishing employment notices, lists, etc. Must be able to meet students, faculty and staff on a continuous basis. Requirements: High school graduate with two years office experience, type 45 wpm, and take dictation at 90 wpm. Closing date: June 3, 1974. Promotional Only.

Placement Interviewer (\$363.50-\$441.50), half-time position, Placement Office, Student Affairs Division. Duties and responsibilities include working in direct support of the total Placement Office staff in the areas of part-time placement, teacher placement, and career placement. Interviewing candidates in either of these areas while at the same time supervise clerical staff, student assistants and graduate assistants in related paper work. Meeting employer representatives, students and faculty on a continuous basis and know all aspects of the office in order to speak at university and community group meetings. Requirements: High school graduate with one year experience in occupational placement, personnel, vocational counseling, or related work. Closing date: June 3, 1974.

Clerical Assistant II-B (\$575-\$699), Biological Sciences Department, School of Science and Mathematics. Duties and responsibilities include typing, taking dictation, filing, keeping records, duplicating, and helping in advising center with questions from students. Requirements: High school graduate with one year office experience, type 45 wpm, take dictation at 90 wpm, General Clerical Test administered to all clerical applicants. Closing date May 28, 1974.

\* CANDIDATES FOR FACULTY POSITION BEING SOUGHT

Candidates for a position 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 position are invited to contact the appropriate dean or department head. Cal Poly is an Affirmative Action Employer. Following is a description of the available position:

Lecturer, Range D or F (\$11,340-\$17,592/annually), Psychology Department, School of Human Development and Education. Duties and responsibilities include teaching courses in personality, mental health, and abnormal psychology. Candidates must possess a doctorate with prior work experience in an academic or clinical setting. Minority group members and women are encouraged to apply. Position available as a leave replacement for the 1974-75 academic year.

\* OFF CAMPUS POSITION VACANCIES

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

Chemeketa Community College - President (\$28,000 depending on qualifications and experience), advanced degrees and a proven ability to communicate effectively with students and staff, community, local, state and federal agencies desired, at least five years successful administrative experience in education, industry or equivalent required, emphasis placed on comprehensive community college experience. Deadline for application is 5 pm, May 31, 1974.

Crafton Hills College - President (\$32,000-\$33,500), Master's degree required, doctorate preferred, two years experience in a full-time administrative position at the college level, three years full-time teaching experience at the college level, and possession or eligibility for necessary California Community College Credential preferred. Deadline for application is June 10, 1974, effective date of appointment is August 1, 1974.

San Jose State University - Director of Computer Services (no salary listed), Bachelor's degree with a graduate degree in business management or other computer related discipline preferred, minimum of five years of progressively responsible experience in the management of a medium-to-large scale computer installation, including demonstrated competence in systems analysis and design, feasibility studies and evaluation of hardware required. Effective date of appointment is July 1, 1974.

California State University, Los Angeles - Dean of Instructional Administration (no salary listed), no qualifications listed. Deadline for application is June 15, 1974.

San Bernardino Valley College - Assistant Dean of Students - Women (\$20,020-\$23,056 for eleven months, depending on degrees and experience), Master's degree, preferably doctorate, possession or eligibility for California Administrative or Supervision Credential, and evidence of successful counseling, teaching or supervisory experience in student activities and service required. Deadline for application is June 7, 1974, effective date of appointment is August 1, 1974.



**New Salary Schedules for Administrative and Support Staff Classes**  
Effective May 1, 1974

Accountant I	1032 - 1255	Personnel Assistant	849 - 1032
Accounting Technician II	649 - 789	Personnel Management Specialist I	1032 - 1255
Accounting Technician III	809 - 983	Personnel Management Specialist II	1255 - 1525
Administrative Aid I	<sup>a</sup> 1073 - 1255	Photographer I	<sup>a</sup> 955 - 1161
Administrative Assistant I	1032 - 1255	Photographer II	955 - 1161
Administrative Secretary	789 - 960	Placement Interviewer	727 - 883
Assistant Administrative Analyst	1032 - 1255	Placemen Supervisor I	849 - 1032
Associate Budget Analyst	1255 - 1525	Plumber I	<sup>a</sup> 1073 - 1183
Associate Personnel Analyst	1255 - 1525	Plumber II	1127 - 1243
Athletic Equipment Attendant I	637 - 774	Procurement & Support Officer III	1383 - 1681
Athletic Equipment Attendant II	737 - 896	Procurement Assistant	939 - 1138
Automobile Mechanic	<sup>a</sup> 978 - 1079	Programmer I	932 - 1132
Automotive Equipment Operator I	<sup>a</sup> 845 - 932	Programmer II	1122 - 1363
Bookkeeping Machine Operator II	575 - 699	Property Clerk II	789 - 960
Building Maintenance Man	<sup>a</sup> 883 - 974	Public Affairs Officer I	1255 - 1525
Business Manager III	2039 - 2479	Purchasing Agent	727 - 883
Campus Fireman	825 - 1003	Radiation Protection Specialist	988 - 1201
Campus Peace Officer, Range A	887 - 1079	Registered Nurse	<sup>b</sup> 901 - 1042
Range B	932 - 1132	Registered Nurse, 10 Month	<sup>b</sup> 901 - 1042
Carpenter I	<sup>a</sup> 1022 - 1127	Reproduction Process Assistant	679 - 825
Carpenter Foreman	<sup>a</sup> 1127 - 1243	Reproduction Process Supervisor II	866 - 1053
Chief of Custodial Services III	955 - 1161	Secretary, Range A	649 - 789
Chief Engineer II	<sup>a</sup> 1243 - 1438	Range B	665 - 809
Chief of Plant Operation I	1138 - 1383	Senior Account Clerk	649 - 789
Chief of Plant Operation IV	1525 - 1854	<del>Senior Assistant Librarian</del>	<del><sup>a</sup>935 - 1137</del>
Clerical Assistant II, Range B	575 - 699	Senior Cashier Clerk	649 - 789
Clerical Assistant III, Range A	649 - 789	Senior Clinical Laboratory Technician	1053 - 1280
Range B	665 - 809	Senior Secretary	734 - 892
Clerical Assistant IV	734 - 892	Sheet Metal Worker	<sup>a</sup> 1073 - 1183
Clinical Aid	519 - 631	Shipping & Receiving Assistant II	789 - 960
Clinical Laboratory Technologist	<sup>b</sup> 1003 - 1161	Skilled Laborer	<sup>a</sup> 809 - 892
Custodial Foreman	649 - 786	Stage Technician I	941 - 1144
Custodian	586 - 713	Stage Technician II	1037 - 1261
Dairymen	936 - 1138	Stationary Engineer	<sup>b</sup> 978 - 1132
Departmental Secretary I, Range A	589 - 716	Stationary Engineer Foreman	<sup>b</sup> 1079 - 1249
Range B	603 - 734	Stationary Fireman	<sup>a</sup> 887 - 978
Departmental Secretary II, Range A	649 - 789	Stock Clerk	619 - 752
Range B	665 - 809	Student Affairs Assistant I	<sup>a</sup> 849 - 936
Duplicating Machine Operator II (Offset)	616 - 748	Student Affairs Assistant II	983 - 1195
Electrician	<sup>a</sup> 1073 - 1183	Student Affairs Trainee	<sup>a</sup> 770 - 849
Electrician Foreman	<sup>a</sup> 1183 - 1305	Student Personnel Technician, Financial Aids	770 - 936
Equipment Technician I	941 - 1144	Supervising Account Clerk I	752 - 914
Equipment Technician II	1037 - 1261	Supervising Account Clerk II	870 - 1058
Equipment Technician III	1144 - 1390	Supervising Campus Peace Officer I	1027 - 1249
Evaluation Technician I	770 - 936	Supervising Campus Peace Officer IV	1311 - 1549
Executive Secretary	870 - 1058	Supervising Clerk I	752 - 914
Financial Manager II	1681 - 2044	Supervising Clerk II	870 - 1058
Fusion Welder	<sup>a</sup> 1003 - 1105	Supervising Custodian I	713 - 866
Groundsman	<sup>b</sup> 675 - 782	Supervising Custodian II	786 - 955
Head Farmer	936 - 1138	Supervising Equipment Technician	1201 - 1460
Head Resident I	665 - 809	Supervising Groundsman II	905 - 1100
Head Resident II	734 - 892	Supervising Nurse I	1042 - 1267
Heavy Equipment Mechanic	<sup>a</sup> 1027 - 1132	Supervising Telephone Operator	603 - 734
Housing Manager, Range B	1138 - 1383	Supervisor of Building Trades	<sup>b</sup> 1183 - 1370
Inventory Clerk	561 - 692	Technical Assistant I	637 - 774
Junior Staff Analyst	849 - 1032	Technical Assistant II	734 - 896
Lead Groundsman	709 - 862	Tractor Operator - Laborer	<sup>a</sup> 887 - 978
Librarian Assistant I	649 - 789	Truck Driver	<sup>a</sup> 845 - 932
Librarian Assistant II	752 - 914	X-Ray Technician	821 - 998
Locksmith I	<sup>a</sup> 1022 - 1127		
Locksmith II	<sup>a</sup> 1127 - 1243		
Maintenance Mechanic	<sup>a</sup> 1073 - 1184		
Mail Services Supervisor I	649 - 789		
Manager, Data Processing Services	1540 - 1872	<sup>a</sup> 3 - step range	
Mechanics Helper	<sup>a</sup> 805 - 887		
Medical Officer I	<sup>b</sup> 2210 - 2558	<sup>b</sup> 4 - step range	
Medical Officer I, 10 month	<sup>b</sup> 2210 - 2558		
Medical Officer III	2437 - 2962		
Painter I	<sup>a</sup> 1022 - 1127		
Painter Foreman	<sup>a</sup> 1127 - 1243		
Parking Officer	669 - 813		
Payroll & Personnel Transactions Clerk II	649 - 789		



# encouraging notes

May 21, 1974

Environmental Effects of Energy. RANN (Research Applied to National Needs), a section of the National Science Foundation, has announced a new program: "Environmental Effects of Energy." A preliminary description of the program will shortly be available in the Research Development Office or may be obtained by writing to the address below. The program will not start funding until after the FY 1975 NSF budget is passed by Congress, estimated to be around the middle of September 1974. Unsolicited proposals received will be treated as draft or preliminary proposals.

The general objectives of the program will be "to develop the scientific knowledge base to generate and sustain a sound environmental policy in the total national energy problem; to seek means to minimize the environmental impacts of fuel sources extraction, energy generation and consumption." The major research emphases, so far defined, are: (1) Pollutant Analysis, (2) Transport and Fate, (3) Ecological Effects, and (4) Environmental Management.

Guidelines may be obtained by writing: Office of Programs and Resources, Rm. 423, National Science Foundation, 1800 G Street, N.W., Washington, D. C., 20550.

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Materials and Instruction Development. Guidelines for this National Science Foundation program are available in the Research Development Office. The program is designed to encourage scientists and science educators to carry out projects for the improvement of pre-college education in mathematics, the sciences, and social sciences. The proposals should consider projects in science literacy at the elementary (grades K-6) level and the secondary (grades 7-12) level and for projects leading to careers in science and technology at the secondary level.

The NSF recognizes that there is no "one best way" to go about improving education in science. Some examples of broad categories of activities for which support is appropriate include:

- (1) Committee and conference studies designed to identify problems in a given field and to formulate guidelines for the evolution of modern instructional programs;
- (2) Planning and coordination projects designed to develop basic guidelines for course improvement, to stimulate the initiation of appropriate projects, to correlate independent developmental projects, and to facilitate wide dissemination of the results of such efforts;
- (3) Projects whose studies of the learning process can be expected to be useful to other study groups in developing improved curriculum materials;
- (4) Projects for the development of course segments dealing with new approaches to subject-matter presentations through written materials, film, television, laboratory experiments and equipment, computer applications, or programmed media;



Materials and Instruction Development (cont.)

- (5) Projects to develop models of outside-the-classroom instruction;
- (6) Projects to develop modes of instruction which approach in a realistic way the needs of nonacademically-oriented students;
- (7) Projects to develop complete model courses or course sequences, using many types of learning and teaching aids;
- (8) Projects designed to study the educational system with particular reference to the application of scientific principles to educational processes;
- (9) Evaluation projects designed to provide a record of the diffusion and implementation process for new course materials and to indicate more effective means for diffusion and implementation of the new course materials.

Fields for which support may be requested include the mathematical, physical, biological, medical, engineering and social sciences, and the history and philosophy of science. There are no prescribed deadlines. Normally preliminary proposals are submitted and responded to within six weeks. Formal proposals generally require approximately four to six months before a final decision is reached. These time frames should be kept in mind when planning a probable date for a given project. Inquiries should be addressed to:

Materials and Instruction Development Section  
Division of Pre-College Education in Science  
National Science Foundation  
Washington, D.C. 20550  
(202) 282-7591

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Student Programs Available. Two programs are available for college students who wish summer programs or school year programs. (1) The National Science Foundation's Student-Originated Studies (SOS) supports 135 student-initiated, student-planned, and student-directed projects aimed at exploring some of the pressing problems of our country. We have the list of student directors who should be contacted directly. (2) At 144 colleges and universities students can now apply for awards to conduct guided research or independent study this summer and during the school year. We have the list of colleges and universities and the student should contact the appropriate project director names in the list, NOT NSF.

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Deadlines. June 19 - NSF Research on Wind Energy Conversion Systems (Category A-1); July 17 - NSF Research on Wind Energy Conversion Systems (all other categories); August 1 - National Endowment for the Humanities: Youthgrants in the Humanities.

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