

CAL POLY REPORT

California Polytechnic State University
San Luis Obispo, California 93407

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Play auditions will continue

Auditions will continue on Monday and Tuesday, Jan. 7 and 8, for the Speech Communication Department's Winter Quarter production of "Sparks Fly Upward," director Murray Smith has announced.

The public auditions will be held at 7 pm in Room 212 of the H.P. Davidson Music Center.

Smith recommends reading the play before auditioning and two copies have been placed on reserve in the Cal Poly Library.

Smith said he is looking for actors and actresses who are versatile enough to play more than one role due to the nature of the play.

The play is about a beautiful young woman's rise and fall in a South American country and how she manipulates those around her.

Safety program

CAL-OSHA requires that all operators of farm equipment be instructed in its safe operation through an initial safety program session followed by a yearly update session. All persons who plan to operate equipment, including forklifts, from the Farm Shop are required to attend the session Friday (Jan. 18).

Those people who attended one of the initial safety program sessions in 1979 can attend the yearly update session from 1 pm to 1:45 pm. New operators can attend the initial program session from 2 pm to 3:15 pm. The safety program sessions will be held in the Agricultural Engineering Shop 6.

Rose Float Wins Founders Trophy

"Hard Rock," a 50-foot, flowered float entered in the 91st Tournament of Roses Parade, continued the tradition of prize winners entered by students of the two Cal Poly State Universities in the spectacular New Year's Day event.

The Founders Trophy for the Pasadena parade's most outstanding self-decorated float was the 16th major award won by Cal Poly floats since their first entry in 1949. They have won an equal number of class prized during that time.

Many thousand flower blossoms and pieces of other plant materials covered the float which featured a rock band composed of five cavemen and a dinosaur that kept the beat of the band's music with its tail.

Rob McPherson, the senior mechanical engineering major who headed the Cal Poly, San Luis Obispo,

students working on the float, said that although their efforts had been directed toward winning the Rose Parade's prize for animation, they were quite pleased with the Founders Trophy.

"Except for minor touch-up, which was completed during the early evening, we completed decoration of the float by mid-afternoon and were ready to move to the parade area about 8 pm on New Year's Eve," he added.

The Founders Trophy is the 13th major prize won by Cal Poly entries in the Rose Parade over the past 15 years.

An estimated audience of 1.4 million persons watched the parade as it moved along its five-and-a-half-mile route on Pasadena's Colorado Blvd. Another 125 million watched it on television across the United States and the world.

Eastham permanent economics head

Appointment of George M. Eastham as head of the Economics Department at Cal Poly has been announced by President Warren J. Baker. Dr. Eastham, a member of the faculty since 1966 and acting head of the Economics Department since Oct., 1978, assumed his new title immediately, according to Robert K. Coe (Dean, Business).

Dean Coe, whose school includes the Economics Department, joined Hazel J. Jones (Vice President for Academic Affairs) and a faculty committee in recommending the appointment. Dr. Eastham succeeds Fuad Tellew, who became associate dean of the School of Business in Oct., 1978, and has since requested and been returned to full-time teaching duties.

A specialist in applied microeconomics, environmental economics, and monetary economics, the new department head is a graduate of California State University, Chico; University of California, Santa Barbara; and Claremont Graduate School, where he earned his doctor's degree in economics. Before joining the Cal Poly faculty, he was a revenue officer with the Internal Revenue Service.

Dr. Eastham, who has prepared and delivered several papers on environmental economics for professional organizations, is a member of the American and Western Economics Associations, the American Academy of Arts and Sciences, and the Center for the Study of Democratic Institutions.

First Weekend Program on Sunday

"Expanding the Limits of Consciousness" is the title of the film that will be featured at the First Weekend Program to be held on Sunday, Jan. 6, in Room 220 of the University Union at 7:30 in the evening.

The film shows doctors, educators, and artists who have learned how to produce altered states of the mind, using them to affect changes in the perception.

After the film is shown there will be discussion of the subject with the audience encouraged to ask questions and exchange views.

There is no charge for First Weekend Programs which are presented by the School of Communicative Arts and Humanities on the first weekend of each month during the academic year. Persons from both the campus and the community are invited to participate.

Trustees' actions reported

The Board of Trustees of The California State University and Colleges took the following actions at its meeting Nov. 27:

- Directed the Chancellor to prepare changes in Title 5 of the *California Administrative Code* to serve in a non-voting capacity with a departmental personnel committee for President or designee after consultation with appropriate student groups to serve in a non-voting capacity with a departmental personnel committee for retention, tenure, and promotion of faculty, throughout its deliberations; and further resolved that the Chancellor instruct the campuses through normal consultative processes with the faculty and students to develop procedural guidelines including but not limited to:

1. minimum qualifications for eligibility of the student;
2. procedure for consultation with appropriate student groups to generate a nomination list;
3. procedure for appointment of the student by the president or her/his designee;
4. provision for access to materials in personnel file; and
5. provision for compliance with approved campus policies regarding the identification of all materials which are placed in the personnel file as to the source of the materials.

- Supported the following exceptions from the legislative mandate for the use of the Capital Outlay Fund for Public Higher Education (COFPE), on a one-time basis, for a period not to exceed two years, beginning July 1, 1980:

- a) One-half of the annual revenue to be transferred to the general fund to be used for energy projects and other State needs; and
- b) One-half to be utilized for public higher education needs as mandated, but in no event less than \$150 million adjusted each year to reflect any changes in the Engineering News Record Construction Index.

Further resolve that the Chancellor work in concert with the University of California and the California Community Colleges to achieve the most beneficial result for public higher education, and that the policy of the Board is that the COFPE Fund be utilized to help alleviate the student and faculty housing shortage, as well as being used for other needed capital outlay projects.

- Amended Title 5 of the *California Administrative Code* to waive the return service obligation following a sabbatical leave of absence with pay in the event of layoff or other action which is not the fault of the employee.

- Amended Title 5 to clarify the authority of the campus President and Chancellor to direct when vacation time, regardless of when it was accumulated, may be taken by employees, such a determination to be made after consultation with employees. In order to conform to a recent Court of Appeal decision, an employee who is in the final year of employment prior to service retirement under the Public Employees Retirement System of the State Teachers Retirement System may elect not to take vacation carried over from prior years and, instead, receive a lump sum payment as of date of separation

- Approved the 1980-81 Academic Master Plans for the 19 campuses.

- Amended Title 5 of the *California Administrative Code* to authorize self-supporting Special Sessions and to specify credit allowable (one semester unit for each 15 hours of instruction) for attendance in such sessions. Title 5 currently provides only for credit allowance in Summer Sessions.

- Amended Title 5 health screening and physical examination requirements to (1) make it clear that the establishment of such programs or requirements is a campus determination; (2) specify that only students suffering from infectious or contagious diseases that are hazardous to the campus community be denied attendance; (3) allow only medical doctors to determine whether a student should be denied attendance due to such disease; and (4) authorize campus medical staff to perform services necessary to ensure compliance with campus health screening requirements for admitted students prior to registration.

Radio broadcasts begin next week

KCBX-FM 90, San Luis Obispo, will begin broadcasting the 1979-80 Cal Poly Arts and Humanities Lecture Series on Monday evenings at 6:30 pm in a series of programs titled, "Work, Play, Worship - A Humanist Perspective."

This is the eighth year the School of Communicative Arts and Humanities has presented the series in which humanists from Cal Poly and the nation describe, analyze, and evaluate topics in our changing world.

This year's topics are in the areas of work, play, and worship, and are being presented throughout the year.

Through a grant from the California Council for the Humanities, KCBX is able to record the talks and produce the programs, including interviews with the speakers.

For January, KCBX will present two programs. On Jan. 7, Peter Marin, a well-known author, educator, and social critic will discuss "Work, Conscience and the Pursuit of Community." On Jan. 21, Professors Ralph Salgado and Pamela Cook Miller of Cal Poly's Speech Communication Department present a multi-media reader's theater titled, "Where There's Work, There is Life."

The radio broadcasts will be aired every other Monday evening through Aug. 4.

KCBX will also air segments of last year's Arts and Humanities series on "Death, Humor, Love" at noon on Tuesdays beginning Jan. 8.

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 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.

George Leonard on campus

George Leonard, who has delivered an exciting message to this country during the past ten years, will appear in the theatre on campus at 11 am on Thursday, Jan. 10.

His subject for the Thursday morning talk, the first in the winter series sponsored by the School of Communicative Arts and Humanities, is "The Ultimate Athlete: Playing the Game of Games."

A Thursday evening presentation at 7:30 at the Discovery Inn in San Luis Obispo will be on "Mind-Body Balancing: Coping with Stress and Finding Healing Energy."

There is no charge for either presentation. Persons who wish to participate, as well as listen, should wear comfortable clothes to the evening program.

During the 1960's, Leonard won a number of national awards for his writings on education. He was a senior editor of *Look* magazine for 17 years and produced the memorable issues such as "California: A Window into the Future" during the late 1960's.

In his books such as *The Transformation*, and *The Silent Pulse*, Leonard demonstrated his particular blend of intelligence and optimism that foresees a glorious future for humankind once mind and body are united and utilizing human energies to their potential.

In his presentations next week, Leonard is expected to show how energy balancing and centering can help in all situations of life.

Persons from the community as well as the campus are invited to both programs.

Haak will head CSU, Fresno

Harold H. Haak, Chancellor of the University of Colorado at Denver, has been named president of California State University, Fresno, effective early in 1980. Dr. Haak's appointment by the CSUC Board of Trustees was announced following a Trustees' executive session by Claudia H. Hampton, Board Chairwoman, and Chancellor Glenn S. Dumke.

"Dr. Haak is an excellent choice," Chancellor Dumke said. "He has compiled an outstanding leadership record and a background of trust and respect that will contribute greatly to the advancement of CSU, Fresno." For Haak, the appointment means a return to the 14,800-student campus he served from 1971 to 1973 as Academic Vice President and to the CSUC where he began his academic career at San Diego State University in 1962.

He has been chief academic and executive officer at the University of Colorado-Denver since leaving Fresno six years ago. His position there was retitled from Vice President to Chancellor in 1974. UC-Denver, which shares a campus with Metropolitan State College and the Community College of Denver, has 5,200 full-time students in eight schools and colleges emphasizing upper division, graduate and professional instruction.

Haak was one of three finalists for the Fresno presidency recommended to Chancellor Dumke by a 13-member search and screening committee organized last fall. There were 120 applicants for the post. Haak will be Fresno's sixth President, succeeding Dr. Norman Baxter. Dr. Robert O. Bess, appointed last summer by Chancellor Dumke as Vice President-in-Charge, will remain at the University pending Haak's assumption of the presidency.

Nobel Prize winner will speak

The man who won the Nobel Prize for chemistry in 1974 will present a lecture for senior students and others interested in polymer chemistry on Monday, Jan. 7, at Cal Poly.

Dr. Paul J. Flory will speak in Room C-19 of the Science Building at 1 pm. The lecture and discussion will be technical in nature for those persons with an understanding of organic chemistry.

Cited for "his fundamental achievements...in the physical chemistry of macromolecules," Dr. Flory was the fourth Nobel Laureate to be recognized for studies largely concerned with synthetic high polymers.

He is recognized by his colleagues in science as one whose impact has gone beyond the field of chemistry to industry and biology where many of the principles he discovered have been applied.

His book, "Principles of Polymer Chemistry," has been the bible for polymer scientists since its publication by Cornell University in 1953. It is still widely used.

A graduate of Manchester College in Indiana and Ohio State University, Dr. Flory has held teaching and research positions at University of Cincinnati, Cornell, and Mellon Institute, and research assignments with DuPont, Esso Laboratories, and Goodyear.

He presently is on the faculty of Stanford University, where he has served a term as Chairman of the Chemistry Department and held the Jackson-Wood professorship in chemistry.

In addition to the Nobel Prize, other awards to Dr. Flory have included the Debye award and the Gibbs and Priestley medals of the American Chemical Society and election to membership in the National Academy of Sciences.

Dr. Flory's visit and lecture at Cal Poly are being arranged by Dr. Dane Jones of the university's Chemistry Department faculty.

Dr. Jones, recognized as one of Cal Poly's distinguished teachers for 1978-79, conducted graduate research under Dr. Flory while completing study for his doctor's degree at Stanford.



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.

Clerical Assistant III-A or Evaluation Technician I (depending upon experience; possibility of three vacancies to fill), \$1007-\$1415/month, Evaluations Office. Duties: Evaluate transcripts and other records of academic work taken at other institutions, evaluate progress and completion of degree requirements, and evaluate work completed by students who change degree program goals. Requirements: For Evaluation Technician I—Two years of training and experience in evaluating academic records; for Clerical Assistant III-A—Three years of general office experience. Type 45 wpm, and must have taken the General Clerical Test. Closing date: 1-18-80.

Intermediate Account Clerk, \$843-\$1007/month, Financial Operations. Processes vendor invoices for payment, matching to related purchases and receiving documents and checking for accuracy, completeness, discounts, etc. Requirements: One year of experience in keeping or reviewing financial or statistical records. Must have taken the General Clerical Test. Closing date: 1-18-80.

OFF-CAMPUS VACANCIES

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

California State University, Fullerton, Dean, School of Business Administration and Economics. Application deadline: Feb. 1, 1980.

San Jose State University, Director of the University Library. Application deadline: March 1, 1980.

Northern Illinois University, Associate Provost. Application deadline: Jan. 7, 1980.

California State University, Los Angeles, Dean, School of Engineering. Application deadline: April 1, 1980.

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.

Assistant/Associate Professor, \$16,368-\$24,828/academic year, Mechanical Engineering Department, School of Engineering and Technology. Industrial petroleum production experience and M.S. required; Doctorate and teaching experience preferred, teaching petroleum production classes as well as basic courses in Mechanical Engineering. Closing date: 4-15-80.

Assistant Professor, \$16,368-\$19,680/academic year, Mechanical Engineering Department, School of Engineering and Technology. Industrial experience and M.S. required; doctorate and teaching experience preferred, teaching mechanical and/or thermal design classes as well as basic courses in Mechanical Engineering. Closing date: 4-15-80.

Lecturer, \$16,368-\$24,828/academic year, Mechanical Engineering Department, School of Engineering and Technology. Industrial experience and M.S. required; doctorate and teaching experience preferred, teaching mechanical and/or thermal design classes as well as basic courses in Mechanical Engineering. Closing date: 4-15-80.

Lecturers, \$16,368-\$19,680/academic year, Architectural Engineering Department, School of Architecture and Environmental Design. Anticipated openings for full-time lecturers beginning in the Fall, Winter and Spring Quarters, 1980-81 academic year. Ph.D. preferred and master's with structural emphasis required. Experience in structural field and registration desirable. Applicants to present transcripts of academic work performed. Closing date: 4-15-80.

Associate/Full Professor, \$20,604-\$31,416/year; depending on qualifications. Metallurgical and Welding Engineering Department, School of Engineering and Technology. Full time, tenure track position to teach freshman through senior courses in metallurgical or materials en-

gineering. Emphasis on teaching B.S. level metallurgical engineering subject matter, physical and mechanical metallurgy, corrosion control, fracture mechanics, solid state transformation, failure analysis, lectures and labs. M.S. with 10-15 years relevant industrial experience, professional registration required; or Ph.D., 7-10 years relevant industrial experience of a practical operating nature, professional registration desired. Start September 1980. Closing date: 3-15-80.

Lecturers, \$16,368-\$24,828/academic year; depending upon qualifications and experience, Architecture Department, School of Architecture and Environmental Design. Positions available for the 1980-81 academic year. Duties include teaching design, professional practice, building science. Required is Master of Architecture or other appropriate master's degree; or professional degree and extensive practice. Teaching experience at collegiate level, licensed experience in practice, research and publications are desirable. Closing date: 2-28-80.

Assistant Professor, \$16,368-\$19,680/academic year; depending upon professional experience and qualifications; paid in 12 monthly payments, Ornamental Horticulture Department, School of Agriculture and Natural Resources. Tenure track position available for the 1980-81 academic year. Duties and responsibilities may include teaching undergraduate courses in Fundamentals of Ornamental Horticulture, Plant Propagation, Nursery Production, Plant Materials and other undergraduate courses in ornamental horticulture; also includes advising students on production projects and senior projects. Master's degree in ornamental horticulture or closely related field plus commercial or teaching experience. Closing date: 4-30-80.

Assistant Professor, \$16,368-\$19,680/academic year; depending upon professional experience and qualifications; paid in 12 monthly payments. Ornamental Horticulture Department, School of Agriculture and Natural Resources. Tenure track position available for 1980-81 academic year. Duties and responsibilities may include teaching Landscape Design, Landscape Contracting, Landscape Implementation, Plant Materials and other undergraduate courses in ornamental horticulture. Master's degree in ornamental horticulture or closely related field is desired with emphasis in landscape design, landscape installation and maintenance plus commercial experience in the landscape industry and teaching experience. Closing date: 4-30-80.

encouraging notes

January 3, 1979

NEW FORM FOR APPROVAL OF APPLICATION FOR GRANT OR CONTRACT. In December, copies of a new approval form for an application for a grant or contract were distributed to all department and dean's offices. This form replaces the older form, commonly referred to as the "buckslip," and is to be used to secure internal approval for all requests for grants and contracts processed through the Research Development Office.

The intent of the form is to highlight the important issues in a proposal that may impact upon the University in one way or another if a grant or contract is awarded. This new form will assist the University in identifying such critical issues as personnel requirements, facilities requirements, cost sharing contribution, computer utilization, and other items that need to be considered before a proposal is sent out.

All proposals for sponsored activities should now use this form rather than the old buckslip. Copies are available in the Research Development Office.

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WASHINGTON CONTACTS. The Coordinator, Research Development, will be in Washington, D.C. January 16-18. If you wish contacts to be made with agency personnel, notify Bob Lucas at extension 2982 as soon as possible.

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* NSF - INSTRUCTIONAL SCIENTIFIC EQUIPMENT FOR UNDERGRADUATE SCIENCE EDUCATION. This program seeks to encourage and support the introduction of modern equipment to improve the "hands-on" experiences of undergraduate students in science and engineering laboratory and field work. Up to \$20,000 may be requested of the NSF for an equipment purchase, with an equal or greater amount provided by Cal Poly.

Cal Poly will be allowed to submit five (5) proposals in the FY 1980 competition. Eligible fields include the traditional disciplines supported by the NSF, interdisciplinary and multidisciplinary fields, clinical fields, and projects which primarily involve home economics and the arts and humanities.

The primary use of each of the equipment items must be for the benefit of undergraduate science instruction. Eligible activities range from projects to improve student research and independent study to projects directed at remediation or development of the science background of poorly prepared students or which involve the teaching of fundamental science concepts within technical or professional programs. A department or discipline may submit only one individual proposal and may participate in an additional inter- or multi-disciplinary project. Departments or disciplines that have received a grant from this program within the past two years are not eligible to submit.

Because only five proposals may be submitted by Cal Poly, drafts of proposals must be submitted to the Research Development Office, endorsed by the school or division dean, with approval of matching funds, by Friday, February 1. If more than five proposals are submitted, the Vice President for Academic Affairs will determine which five proposals will represent the University.

Final proposals are due at NSF on Friday, February 29.

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- * NSF - APPLIED SOCIAL AND BEHAVIORAL SCIENCES RESEARCH INITIATION GRANTS. This program is directed toward full-time social and behavioral science faculty members who have no substantial support. Applicants are encouraged to submit proposals of their own choosing which will expand their research capabilities beyond the research done for the doctoral degree. Grants, awarded on a competitive basis, are to be used for the initiation of theoretical or empirical research in any area normally supported by the Social and Behavioral Sciences Section of the Division of Applied Research.

An eligible applicant must be full-time assistant or associate professor, less than five years from the receipt of the doctorate at the time of award, a U.S. citizen or permanent resident of the U.S., with no previous experience as a principal investigator or a federally sponsored research grant.

POSTMARK DEADLINE: FEBRUARY 1, 1980.

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- * NSF/NEH - ETHICS AND VALUES IN SCIENCE AND TECHNOLOGY. The National Science Foundation and the National Endowment for the Humanities have expanded the scope of existing programs in the field of ethics and values in science and technology to include two new awards.

Interdisciplinary Incentive Awards are intended to permit scientists and humanistic scholars to pursue specific, problem-oriented activities in association with specialists in fields other than their own, in order to enhance their ability to deal with issues in the field of science and values.

Sustained Development Awards are intended to provide long-term support for individuals with a substantial record of achievement who wish to develop a new base for sustained work in the field. DEADLINE: February 15, 1980.

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- * USOE - FUND FOR THE IMPROVEMENT OF POSTSECONDARY EDUCATION. Preapplications and applications are invited for new awards under the Comprehensive Program of the Fund for the Improvement of Postsecondary Education (FIPSE). Preapplications for awards must be mailed by January 29, 1980. Applications must be mailed by April 8, 1980. Preapplications are required and must have full institutional approval.

Approximately \$7,000,000 is estimated to be available for new awards in FY 1980. It is estimated that these funds could support approximately 85 new awards. The estimated amount of new awards will be between \$5,000 and \$250,000 for a 12-month period. Applicants may request approval of a multi-year work plan for up to 3 years in duration.

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- * NATIONAL SCIENCE FOUNDATION - TARGET DATES

2/1/80	BIOCHEMISTRY. Contact: Dr. D. MacDonald Green, Division of Physiology, Cellular & Molecular Biology (202) 632-4260.
2/1/80	BIOPHYSICS. Contact: Dr. Arthur Kowalsky, Division of Physiology, Cellular & Molecular Biology, (202) 634-4260.
2/1/80	CELL BIOLOGY. Contact: Dr. J. Eugene Fox, Division of Physiology, Cellular & Molecular Biology (202) 632-4117.
2/1/80	DEVELOPMENTAL BIOLOGY. Contact: Dr. Mary Clutter, Division of Physiology, Cellular & Molecular Biology (202) 632-4314.
2/1/80	GENETIC BIOLOGY. Contact: Dr. Phillip Harriman, Division of Physiology, Cellular & Molecular Biology (202) 632-5985.

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