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CAL POLY REPRESENTATIVES INVITED TO CONFERENCE ON EXTERNAL DEGREE PROGRAMS

Six members of the Cal Poly faculty and administrative staff have been invited by Chancellor Glenn S. Dumke to take part in the California State Colleges' statewide Conference on External Degree Programs on Dec. 16-18.

The conference will focus on innovative approaches, largely through revised extension concepts, toward providing collegiate degree opportunities to populations not normally served by the state colleges' regular on-campus programs.

Sessions will be at the college system's new Kellogg-West Center for Continuing Education at California State Polytechnic College, Kellogg-Voorhis, Pomona, under the theme, "The 1,000-Mile Campus -- Priorities for the 70's."

Invited from Cal Poly, San Luis Obispo, are Howard Rhoads (Crop Science Department), chairman of the college's academic senate; Harry Scales (Education Department), vice chairman of the college academic senate; and David Grant (English Department), chairman of the campus senate's Ad Hoc Committee on Innovative Programs. All three are also members of the college faculty.

Also invited to represent Cal Poly, San Luis Obispo, at the conference are Dale W. Andrews (Academic Vice President); Howard West (Associate Dean, Resources and Planning); and Tom Dunigan (Director of Institutional Studies).

Hostetter Will Be Speaker

Two other members of the college faculty scheduled to take part are Clyde Hostetter (Director of Instructional Materials Program), who will be a conference speaker, and Don M. Morris (Associate Dean, Continuing Education). Dr. Morris is a member of the Commission on External Degree Programs of the California State Colleges, which is arranging the conference.

Beside President Thomas H. McGrath of Sonoma State College, who is commission chairman, other members are President S. I. Hayakawa of San Francisco State College; Richard Barbera and D. Dale Hanner, both members of the California State Colleges staff; George M. Heneghan of California State College, Dominguez Hills; Ralph C. Mills of Chico State College; and Nelson Norman of San Diego State College.

Conference speakers will include Robert Finch, counselor to President Nixon, and John Valentine, executive director of the Commission on Non-Traditional Studies. Panel and workshop sessions are also scheduled.

Concepts of external degree programs are among new approaches proposed by Chancellor Dumke in January. A model program has been implemented by Chico State College.

In his January proposal to the state college trustees, Dr. Dumke proposed the possibility of "providing degree opportunities for substantial numbers of students other than through an on-campus program as students in-residence -- students, who, under our present systems, we cannot hope to serve."

CONCERTS BY CHAMBER ORCHESTRA SCHEDULED THURSDAY

The Chamber Orchestra of California State Polytechnic College will open its 1971-72 concert season when it presents two identical concerts on Thursday (Nov. 18). The programs, one at 11 a.m. and the second at 8:30 p.m., will be given in the Cal Poly Theater. Admission will be free and the public is invited to attend, according to Clifton E. Swanson (Music Department), who is conductor of the orchestra.

Soloist for both performances will be pianist Ronald V. Ratcliffe (also Music Department), who will join the 35-member ensemble for its rendition of Mozart's Concerto in E-flat major for Piano and Orchestra, K. 271. Ratcliffe is a seasoned concert soloist. A member of the college faculty since 1963, he is well-known, both as a pianist and as harpsichordist, throughout the Pacific Coast region.

Also programmed for the Chamber Orchestra's concerts next Thursday are Beethoven's Coriolan Overture, incidental music from Pelleas and Melisande by Faure, and Corelli's Concerto Grosso, Op. 6, #8 (Christmas).

Swanson, who is also conductor of the San Luis Obispo County Symphony Orchestra, has been a member of the Cal Poly faculty since 1967. Before that he was assistant conductor of the University of Texas Symphony Orchestra and taught at University of California, Portland State College, and University of Texas.

FIELD DAY FOR CATTLEMEN WILL TAKE PLACE ON CAMPUS

The latest developments in breeding, feeding, and keeping beef cattle healthy will be discussed at the Cattlemen's Field Day at Cal Poly on Friday (Nov. 19). The day-long review of the beef industry, to be held in the Livestock Pavilion, is being co-sponsored by the Animal Science Department and the San Luis Obispo Cattlemen's Association.

Frank Fox (Animal Science Department) says reports will be given on implantations, crossbreeding, semen evaluations of bulls, and umbriosis and fertility. The field day will conclude with a tour of the Escuela Rancho, Cal Poly's rangeland north on Highway 1, and a barbecue.

Participants from the Animal Science Department faculty will include Richard Johnson, Department Head, Roy Harris, and James Flanagan. Also participating will be George L. Crenshaw of the University of California at Davis.

During a tour of the Escuela Rancho, Flanagan will describe the student enterprise program through which Cal Poly agricultural students get practical experience in cow-calf operations management.

K C P R RADIO GETS NEW TELEPHONE NUMBER

An effort to provide more efficient handling of telephone calls coming in to the various service departments of the college has resulted in change of the telephone number for Radio Station KCPR. The radio station, which is operated by students as part of the instruction program of the Journalism Department, may now be reached by dialing 546-4501.

1971 A I D - UNITED GIVERS DRIVE AT MIDPOINT

The annual campus AID-United Givers campaign is now entering its second week. Over 75 captains are actively engaged in contacting college employees who are not now making contributions through payroll deductions.

Employees now making monthly payroll deductions who desire to increase their contributions may contact the Personnel Office directly by telephoning 546-2236. Employees who have in the prior year designated their contributions to a specific cause or causes by completing designation forms are reminded that new designation forms must be made each year if they wish their contributions to go to the same named causes. These forms may be requested from the Personnel Office by telephone.

Employees have the choice of directing their contributions to all 14 local causes, or to any one charitable group in AID. Contributors may also direct their contributions to any number of eligible charities both outside San Luis Obispo County and outside the state through the AID organization.

NOV. 26 WILL BE C T O HOLIDAY FOR CAL POLY EMPLOYEES

Friday, Nov. 26, has been designated as a college holiday so that Cal Poly employees may enjoy a four-day Thanksgiving Day weekend, according to Larry Voss (Director of Personnel Relations). In accordance with past policy, a CTO (compensating time off) day will be used in exchange for that day (Nov. 26). Since Oct. 11 (Columbus Day) was a work day at Cal Poly, it will be used.

Voss said that employees who do not have eight hours of CTO credit may work on Nov. 26, with supervisor approval, or may use available vacation credits in order to avoid a dock in their pay. In addition, any employee who wishes to, may, with his supervisor's approval, work on that day.

The Nov. 26 college holiday comes during the Thanksgiving academic holiday, which will begin on Wednesday, Nov. 24, and continue through Sunday, Nov. 28. All instructional programs of the college will be closed during that time. Essential campus services will operate throughout the holiday period, however.

1971 FARM-CITY WEEK OBSERVANCE WILL OPEN FRIDAY

Cow-milking contests between radio disc jockeys and a hay-bucking contest will be among the special activities for San Luis Obispo's Farm-City Week beginning Friday (Nov. 19) and continuing through Nov. 25. The San Luis Obispo observance of Farm-City Week is sponsored by the student council of Cal Poly's School of Agriculture and Natural Resources.

Randy Zipser of Modesto, student chairman for Farm-City Week, says the observance will also include window displays in downtown stores, displays of farm equipment and special activities at the Madonna Plaza Shopping Center, and other events yet to be scheduled. Zipser is a senior majoring in agricultural engineering at Cal Poly.

Typewritten copy intended for the next issue of Cal Poly Report must be received prior to 12 noon Friday, Nov. 19, in the Office of Information Services, Administration-210.

VACANT STAFF POSITIONS LISTED BY PERSONNEL OFFICE

Four vacant positions on the college support staff have been announced by S. Milton Piuma (Staff Personnel Officer). Descriptions of the positions which may be filled by promotion or transfer of Cal Poly staff only, are posted on the bulletin board located outside the Personnel Office, Adm-110, 546-2236. Guidelines for filling the positions are also posted in the Personnel Office. The positions are:

Intermediate Account Clerk (\$457-\$556), Cashiering Office, Business Affairs Division. Duties and responsibilities include assisting college cashier in processing and receipting collections of revenues and reimbursements; providing cashiering services for various special functions; balancing daily receipts of funds collected; and preparing proper distribution for accounting purposes. Applicants must have equivalency to graduation from high school, have passed the General Clerical Test, and have one year additional training or experience in handling significant sums of cash and checks. Previous cashiering experience is desirable.

Clerical Assistant III-A (\$548-\$666), Health Center, Student Affairs Division. Duties and responsibilities include maintaining Health Center medical records in accordance with requirements of Joint Commission on Accreditation of Hospitals, personnel records, and basic account book and medical library; Take talking and transcribing dictation for director of health services, and acting as "troubleshooter" in all clerical situations. Applicants must be high school graduates, have passed the General Clerical Test, type 45 wpm, and have at least five years experience as Clerical Assistant II-B. Applicants should be knowledgeable of Standard Nomenclature of Diseases.

In addition, the following positions may be filled by applicants other than Cal Poly staff:

Building Maintenance Man (\$666-\$734), Plant Operations, Business Affairs Division. Duties and responsibilities include general maintenance and repair of all campus buildings, agricultural units, roads; hauling of furniture, and assisting tradesman in their duties providing all labor needed for special events; cleanup, etc. Applicants must have ability to follow verbal or written orders, direct student assistants, and be high school graduates. They must be able to plan work sequence for minor repairs and have one year of experience in general maintenance and repair work. (Hours: 8:00 a.m. to 4:30 p.m., Tuesday through Saturday).

Fusion Welder (\$764-\$842), Plant Operations, Business Affairs Division. Duties and responsibilities include performing all maintenance welding and fabrication involving use of cold rolled steel, pipe, cast iron, etc.; welding and fitting water, steam, storm drain lines, fencing, etc.; planning and layout work with speed and proficiency; reading blueprints; and following verbal instructions. Applicants must have high school education, be totally knowledgeable of all arc and oxyacetylene welding processes, and be journeymen or hold certification for all position welding of basic metals.

FACULTY, STAFF PARTICIPATION INVITED BY SQUARE DANCE GROUP

Faculty and staff members are invited to join in activities of the Poly Twirlers, an organization composed of students interested in square dancing. Club meetings, to which all experienced square dancers are invited, are held on the first and third Wednesdays of each month in the Julian A. McPhee College Union. Donations of 75 cents per person are accepted from participants in the twice monthly dances.

COMING EVENTS -- COMING EVENTS -- COMING EVENTS

Junior Rodeo -- Tuesday, Nov. 16, 7:30 p.m., Collet Arena. Junior rodeo sponsored by the Cal Poly Rodeo Club in conjunction with the San Luis Obispo Senior High School Chapter of the Future Farmers of America. General admission tickets, \$1.

Cal Poly Women's Club Home and Garden Section Meeting -- Wednesday, Nov. 17, 10 a.m., Ornamental Horticulture Unit. Robert Gorden will demonstrate the making of Christmas wreaths; those planning to attend are asked to bring their own materials. Members invited.

Cal Poly Women's Club Potpourri Section Meeting -- Wednesday, Nov. 17, 12 noon, 2033 Skylark Ln., San Luis Obispo. A meeting to be held in the home of Marjory Johnson. Members invited.

CSEA Luncheon Meeting -- Wednesday, Nov. 17, 12 noon, Staff Dining Room. Regular luncheon meeting of Cal Poly Chapter 97 of the California State Employees Association featuring service awards to eligible persons. Faculty and staff invited.

Power Systems Seminar -- Thursday, Nov. 18, 11 a.m. Computer Science Building Room 201. Discussion of the Diablo Canyon Nuclear Power Plant by Evan Owen; sponsored by the Electronic and Electrical Engineering Department. Faculty, staff, students and guests invited.

Chamber Orchestra Concert -- Thursday, Nov. 18, 11 a.m., Cal Poly Theater. Program by the Cal Poly Chamber Orchestra featuring piano soloist Ronald V. Ratcliffe; sponsored by the Cal Poly Music Department. Public invited.

Cal Poly Staff Club Luncheon Meeting -- Thursday, Nov. 18, 12 noon, Staff Dining Room. M. Eugene Smith will discuss "The Orient." Faculty and staff invited.

Varsity Wrestling -- Thursday, Nov. 18, 7:30 p.m., Men's Gymnasium. Annual intra-squad meet matching members of Cal Poly's defending national champion wrestling team. General admission tickets - students, 50 cents; all others, \$1.

Chamber Orchestra Concert -- Thursday, Nov. 18, 8:30 p.m., Cal Poly Theater. Concert by the Cal Poly Chamber Orchestra featuring piano soloist Ronald V. Ratcliffe; sponsored by the Cal Poly Music Department. Public invited.

Engineering Articulation Conference -- Friday, Nov. 19, all day, Julian A. McPhee College Union Room 220. Gathering of engineering teachers and representatives of community colleges for the purpose of articulating student transfer requirements; hosted by the Cal Poly School of Engineering and Technology. By invitation.

Forum on State Government -- Friday, November 19, 2 p.m., Cal Poly Theater. Panel discussion by William Ketchum, Bill Cowan, and Rush Hill; sponsored by California College Republicans of Cal Poly. Public invited.

Varsity Football -- Saturday, Nov. 20, 7:30 p.m., Mustang Stadium. Band night game between Cal Poly and California State College at Fullerton. Tickets - reserved seats, \$3.50; adult general admission, \$2.50; student general admission, \$1; children general admission, 50 cents.

(Continued on Page 6)

FACULTY MEMBERS WILL PRESENT SYMPOSIUM FOR ALUMNI

A symposium for Cal Poly alumni will take place at Fresno City College, on Saturday (Nov. 20) afternoon. Four members of the Cal Poly faculty will participate in the symposium which is designed to update alumni knowledge in the areas of animal science, engineering, and management.

Participants in the program, which is being sponsored by the Cal Poly Alumni Association, will be Archie Higdon (Dean of the School of Engineering and Technology); Robert Hooks (Animal Science Department); Corwin Johnson (Head of the Crops Science Department); and James Lau (Business Administration Department).

Owen L. Servatius (Head of the Business Administration Department), who is secretary-treasurer for the association, arranged for the faculty participants.

COPIES OF "CHANCELLOR COMMENTS" BEING DISTRIBUTED ON CAMPUS

Copies of the Nov. 8, 1971, edition of The Chancellor Comments, a bi-monthly newsletter from Chancellor of the California State Colleges Glenn S. Dumke to the faculties, staffs, and students of the various state colleges, are being distributed as attachments to this issue of Cal Poly Report.

SEMINAR PROGRAM ON DIABLO CANYON POWER PLANT PLANNED ON THURSDAY

Evan R. Owen (Head of the Electronic and Electrical Engineering Department) will be the speaker for a Seminar in Power Systems, which will take place starting at 11 a.m. on Thursday (Nov. 18) in CompSci-201. Dr. Owen is expected to discuss his activities while working last summer as an engineer for Pacific Gas and Electric Company at the Diablo Canyon Nuclear Power Plant. Faculty, students, and guests are invited to attend the seminar. Refreshments will be served at 11 a.m.

COMING EVENTS . . . (Continued from Page 5)

Cal Poly Women's Club Choral Section Meeting -- Tuesday, Nov. 23, 8 p.m. 954 Montalban St., San Luis Obispo. Members invited.

Cal Poly Women's Club Walking Section Meeting -- Tuesday, Nov. 23, 9 a.m. 105 Fel Mar Dr., San Luis Obispo. Scheduled is a walk in the Ferrini Heights area of San Luis Obispo. Members invited.

Varsity Cross Country -- Tuesday, Nov. 23, 3 p.m., course starting and ending at old track near Baseball Diamond. Cal Poly vs. University of California at Santa Barbara. Public invited.

Academic Holiday -- Wednesday through Sunday, Nov. 24-28. Thanksgiving holiday for students and faculty; Friday will be a college holiday and all except essential services will be closed.

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CAL POLY GRIDDEERS WILL HOST FULLERTON IN CONFERENCE SHOWDOWN

Mustang Stadium will be the site for a showdown battle to determine the winner of the 1971 football championship of the California Collegiate Athletic Association. Matching Cal Poly's varsity eleven against that of California State College at Fullerton, the contest is scheduled for a 7:30 p.m. kickoff on Saturday.

(At deadline time for Cal Poly Report all indications were that Saturday evening's Cal Poly-Cal State Fullerton game would be played as planned in spite of a light plane crash that took the lives of three assistant coaches of the CSCF team last Saturday (Nov. 13) evening. The plane, which was en route to San Luis Obispo from San Diego, was found Sunday (Nov. 14) morning on a mountainside near the Gaviota Pass in Santa Barbara County. The pilot also lost his life in the crash.)

Cal State Fullerton presently leads the CCAA with a 3-0 won-lost record and the Mustangs are in second place with a 1-0 mark. Head Coach Joe Harper's Cal Poly team, which will close its 1971 season against CCAA-opponent California State Polytechnic College, Kellogg-Voorhis, Pomona on Dec. 4, could move into first place with a victory over the Fullerton eleven, which has a 6-2 record for the season.

The Mustangs edged University of California at Santa Barbara 9-3 last Saturday evening to even its 1971 season at 4-4. Senior tailback Darrel Thornes, who had been injured since September and only returned to duty the week before, scored the game's only touchdown and was the rushing leader for the evening.

The only other event on this week's campus sports calendar will find members of Head Coach Vaughan Hitchcock's defending National Collegiate Athletic Association champion Cal Poly wrestling team meeting in an intrasquad match in the Men's Gymnasium at 7:30 p.m., Thursday (Nov. 18) evening.

PROFESSIONAL ENGINEERS SCHEDULE CHAPTER MEETING

The Central Coast Chapter of the California Society of Professional Engineers will hold its regular monthly meeting on Thursday (Nov. 18) at Merrell's Steak House in Santa Maria, according to C. R. Russell (Associate Dean of the School of Engineering and Technology), who is chapter president. The dinner will be served at 7 p.m. and the meeting will begin at 8 p.m. Two guest speakers will treat the topic, "Collective Bargaining Organizations and the Engineer." Contact C. R. Russell at Ext. 2132 for dinner reservations or if you plan to attend the meeting only. Those wishing to make dinner reservations or to attend the meeting only are asked to contact Dr. Russell by telephoning 546-2132.

ACADEMIC SENATE COMMITTEE WILL MEET THIS AFTERNOON

The Constitution and Bylaws Committee of the Academic Senate will meet in the Staff Dining Room (Section B) at 3 p.m., today (Tuesday, Nov. 16). The main topics of discussion will be the makeup of the Distinguished Teaching Awards Committee and procedures for the committee to follow in the selection of distinguished teachers. Both will be presented to the Academic Senate for inclusion in its bylaws.

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ENGINEERING EDUCATORS INVITED TO CAMPUS CONFERENCE

Engineering educators from throughout California have been invited to take part in a Community College Articulation Conference which will take place Friday (Nov. 19) in the Julian A. McPhee College Union. Being sponsored by the School of Engineering and Technology, the program will focus on Cal Poly admissions and articulation procedures.

The day-long conference will begin at 9 a.m. with registration and close late in the afternoon following meetings with members of the School of Engineering and Technology faculty and tours of the various instructional departments of the school.

Also scheduled during the day are welcoming remarks by Archie Higdon (Dean of the School of Engineering and Technology); a brief presentation by Dave Vaughn, president of the engineering and technology student council; and talks by Don Coats (Associate Dean, Educational Services) and George Davies (Admissions Officer).

Millard J. Fotter (Industrial Engineering Department) is coordinating arrangements for the conference.

FOLK ROCK CONCERT SCHEDULED IN MEN'S GYMNASIUM

Three folk-rock singing groups and a blues soloist -- all who have committed their lives and talents to a new style of life -- will all perform during a free concert in the Men's Gymnasium on Friday (Nov. 10) evening.

Love Song, Country Faith, The Way, and Denny are singers who have found life in Jesus Christ and are traveling to San Luis Obispo from Costa Mesa to share their music. They are part of "Maranatha" an organization of Calvary Chapel, -- a Christian revolution endeavor.

Friday evening's performance at Cal Poly is being sponsored by Inter-Varsity Christian Fellowship, an interdenominational campus group whose purpose is to share their Christian experience.

PAINTINGS OF SHIPS ON DISPLAY THROUGH FRIDAY IN LIBRARY

Seven paintings of historic ships, intricately detailed and researched in depth by Erna Knapp (Art Department), are on exhibit until Friday (Nov. 19) in the foyer of Dexter Library.

Some of the paintings are executed in gold and silver leaf, an old art almost lost. The colors are adjusted to the period of history and geographical location. However, the designed arrangements and graphic treatment are a highly personalized style of Mrs. Knapp.

Complementing the paintings are two ship models, an Arab dhow and mahogany sailboat, loaned by Albert Manezon of Morro Bay. Manezon is the husband of Helen Manezon, library assistant in charge of the Reserve Room.

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

Clyde Hostetter (Director of the Instructional Materials Program) gave a multi-media presentation on the British Open University during the national convention of the Adult Education Association of the U.S.A. last Wednesday (Nov. 8). The two-hour presentation included taped interview and photographic slides made by Hostetter during a fact-finding trip to Great Britain last summer. Many of the materials used in the AEA program are now available for review in the new auto-tutorial carrels' in the Curriculum Library of the College Library.

Donald P. Grant (School of Architecture and Environmental Design) delivered a paper titled "Stimulating Conflicts of Interest Over the Location of Public Housing with the Aid of a Computer-Aided Space Allocation Technique" during the sixth annual Urban Symposium of the Association for Computing Machinery, which took place Oct. 29 in New York. The paper described an applied planning technique developed on the basis of a theoretical paper authored by Wesley Ward (also School of Architecture and Environmental Design) and Arthur Chapman, a student. Grant, who is on leave this year completing his PhD studies at University of California at Berkeley, conducted study for the paper under a grant from the Graham Foundation for the Fine Arts.

Walter E. Elliott (Physics Department) has been notified that his paper titled "College Students Perceptions of Physics and Physics Teachers" will be presented at the annual joint meeting of the American Physical Society and the American Association of Physics Teachers in San Francisco on Jan. 31 -Feb. 3. The paper includes results of quantitative studies of student perceptions of physics, physics courses, and physics teachers. The results are based upon a recent survey of anonymous responses from 1,100 students enrolled in introductory physics courses at Cal Poly.

Everett M. Chandler (Dean of Students) has been reappointed by President Robert E. Kennedy to serve as his representative on two Associated Students, Inc., governmental groups. Dr. Chandler, who has been a member of the Cal Poly administrative staff since 1951, will be the president's representative on the Student Affairs Council and the Summer Interim Committee during the 1971-72 college year.

Lee C. Coombs, and Leland S. Endres (both Chemistry Department) have been notified that they are each recipients of \$2,000 Academic Year Extension Grants supported by the National Science Foundation in a program of Research Participation for College Teachers. Dr. Coombs will carry out kinetic studies on reactions of the cobalt complexions of the biologically important functional groups of histidine and methinine with chormium (II). Dr. Endres will synthesize several 1,2-oxazetidionones and study their chemistry with the hope of eventually looking at the physiological properties of this small ring heterocyclic compounds.

Saul Goldberg (Electronic and Electrical Engineering Department) is the author of a paper which was published in the Journal of The Franklin Institute, June, 1971, Vol. 291, No. 6. The paper, titled A Computational Algorithm for the Identification of Nonlinear Systems, is based on work supported by the National Science Foundation under grant GK-2194.

Teymoor Gedayloo (Physics Department) is spending the current academic year studying in the Radiation Biophysics Department at University of Kansas. Gedayloo, whose term as a member of the San Luis Coastal School District's Board of Education expired recently, chose to develop his interest in biophysics while on leave rather than seek reelection to the board.

FOOD, CLOTHING DRIVE WILL AID COUNTY RESIDENTS

The entire Cal Poly campus community is being invited to join in a Thanksgiving Drive to collect food and usable clothing to be given to needy people throughout San Luis Obispo County. The drive, which is being sponsored by MEChA student organization of Chicano students, began yesterday (Monday, Nov. 15) and will continue through Friday (Nov. 19).

Two booths, one located in the Plaza of the Julian A. McPhee College Union and the other at the intersection of North Perimeter Rd. and Pepper Ln., will be used as collection points for the food and clothing. They will be open and manned to receive contributions between 8 a.m. and 5 p.m. An additional effort to gain contributions of food and clothing from residents of San Luis Obispo will be conducted tomorrow (Wednesday, Nov. 17) evening.

Susie Tacbas, a spokesman for the sponsoring student group, said that all of the goods received through the Thanksgiving Drive will be distributed to residents of San Luis Obispo County through the various Grassroots Centers. She urged anyone who wishes to join in their effort to contact her by telephoning 546-3395 for further information.

WHO . . . WHAT . . . (Continued from Page 9)

Ken Kimball (Industrial Technology Department) and Ian Begg (Mechanical Engineering Department) will represent the central coast area of Toastmasters, International, at a speaking contest at Las Vegas, Nev., on Saturday (Nov. 20). Kimball won a recent contest against contestants from Paso Robles, Vandenberg Air Force Base, and Santa Maria and Begg was a member of the debate team which won the final round of the debating contest over a group from Vandenberg AFB.

Walter E. Elliott, Robert H. Knapp, W. Reed Langford, Ralph A. Peters, and Arthur Z. Rosen (all Physics Department) attended the fall meeting of the American Association of Physics Department in Oakland on Nov. 6. Highlights of the meeting included a paper on the potential of the scanning electron microscope as a tool in medical research, and several contributed papers on the Keller Plan, a non-lecture teaching technique which is currently being tested in experimental programs on other state college campuses.

Substantial savings in maintenance expenditures, and a marked reduction in exhaust emissions can be expected to result from conversion of vehicle fleets to liquid petroleum gas (LPG), according to an article by Jarel H. Wheaton, a senior majoring in industrial technology at Cal Poly. Titled "The Conversion of a Small Fleet of Vehicles to Liquefied Petroleum Gas," the article appeared in the September, 1971, Newsletter of the American Institute of Plant Engineers. Jack Frost (Industrial Technology Department) was faculty advisor for Wheaton's senior project which provided information for the article.

RETURN OF UNUSED INTER-CAMPUS MAIL ENVELOPES ASKED BY GENERAL OFFICE

The return of unused supplies of inter-campus mail envelopes is being requested, according to Mrs. Lucy Schmidt (Supervisor of the General Office). 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.

CAMPUS BECOMING FORUM FOR HUMAN ENVIRONMENT IDEAS

The Cal Poly campus is becoming a forum for a continuing debate between proponents of two different responses to the problems of sustaining the human environment.

A man billed as "Ecology's Superstar," last week told a Cal Poly audience, "The Green Revolution is a hope that cannot materialize, a package tied in green and labeled hope -- but the package is empty." The speaker, David R. Brower is founder and president of the Friends of the Earth and former executive director of the Sierra Club.

He was referring to the ideas of Norman E. Borlaug, 1970 Nobel Peace Prize winner who earlier had denounced "hysterical environmentalists" for wrongly trying to restrict the use of chemical fertilizers and pesticides. Brower said, "Borlaug is wrong; it's a short-term gain."

Dr. Borlaug, who developed a high-yield wheat that enables developing countries to increase food production, is scheduled to speak at Cal Poly on Friday, Feb. 11, 1972. He has been described as the No. 1 revolutionary in the battle against hunger.

Brower said miracle wheat could prove to be subject to blight, and pointed to last year's 20 per cent loss of the U.S. hybrid corn crop as an example. If the new wheat succumbs to unforeseen diseases, he said, the result will be mass starvation in such countries as India.

His references to Dr. Borlaug came after the Nobel Peace Prize winner told the biennial conference of the United Nations Food and Agriculture Organization in Rome that starvation is a greater threat than chemical poisoning.

The respected scientist said, "If agriculture is denied their use because of unwise legislation that is now being promoted by a powerful lobby group of hysterical environmentalists -- who are provoking fear by predicting doom for the world through chemical poisoning -- then the world will be doomed . . . not by chemical poisoning, but from starvation."

Dr. Borlaug, 57, is wheat program director of the International Corn and Wheat Improvement Center in Mexico. He will appear at Cal Poly as part of the college's convocations series, sponsored by the college and by the student council of the School of Agriculture and Natural Resources.

The Chancellor COMMENTS



November 8, 1971
VOL. IV, NO. 9

TO THE PRESIDENTS, FACULTIES, ADMINISTRATIVE AND SUPPORT STAFFS, AND STUDENTS OF THE CALIFORNIA STATE COLLEGES:

1972-73 Support Budget Request

The Board of Trustees recently approved our proposed Support Budget request of \$382.1 million for 1972-73. This request, in my opinion, reflects a proper balance between the needs of the State Colleges and the severely limited fiscal resources of the State.

We have again this year based our request on the State's policy of accommodating all qualified Californians who wish to attend a State College. Of the \$65.4 million increase over 1971-72, an estimated \$43 million is related to anticipated enrollment growth, restoration of levels of support curtailed in 1971-72, and other factors.

The amount we are requesting will provide adequate support for the coming year. However, if we are not able to be allotted the level of support required, I will have no alternative but to propose that an enrollment curtailment be exercised in order to preserve the essential level of academic quality.

We anticipate that systemwide enrollments next year will increase from 221,020 full-time equivalent (FTE) students budgeted this year to 236,215 – an increase of 15,195 FTE or 6.9 percent.

In addition to the basic support request of \$375.2 million, three program augmentations totaling \$6.9 million are proposed – bringing our total request to \$382.1 million. While, in the past, program augmentations have been requested to alleviate problems or deficiencies in a multitude of areas, we have this year – working closely with the campuses – selected the three most important needs to which we believe attention must be given. These are (1) recognition of faculty workload for master's level instruction, (2) strengthening of department administration at the campus level, and (3) funding to implement new and innovative ideas for providing education to our students.

The 1972-73 request provides for a cost per FTE of \$1,618. The final budget for 1971-72 appropriated a cost per FTE of \$1,433, compared with a Trustee request for \$1,645. Last year the State Colleges requested a support budget of \$369.3 million. The final budget totaled approximately \$316 million.

We will now submit the support budget request to the State Department of Finance for review. During the coming months we will be meeting with representatives of the Finance Department, the Legislature, and the Governor's Office to present further our case for adequate support. We will continue to keep you informed of budgetary developments.

Capital Outlay Request

In September, the Board of Trustees approved a *State-funded* Capital Outlay request for 1972-73 totaling almost \$132 million. This includes \$99.4 million to continue projects for which partial funds have been appropriated by the Legislature and \$29.2 million to begin new projects. An additional \$183.9 million will be required in future budgets to complete these projects.

The future capital outlay needs of The California State Colleges are considerable (possibly as much as \$610 million over the next five years). Three factors have had a major impact on these needs. First, there have been continuing increases in enrollments. The 1972-73 request provides construction funds to accommodate 17,953 FTE students, working drawing funds for 32,484 FTE, library construction funds and working drawing to provide seating capacity for 13,124 students and stack capacity for 2.1 million volumes.

Secondly, capital outlay has been under-funded for several years. For 1971-72 the State Colleges received \$19.5 million – we requested \$156.9 million. In 1970-71 we received \$22.4 million - we requested \$108.9 million.

And finally, construction costs have been escalating at an alarming rate. Using the Engineering News Record Index, the State Colleges last year experienced an accelerated increase in construction costs of 15.5 percent. The Construction Cost Index shows an average increase of 7 percent during the previous five years.

One of the ways we have accommodated our ever-increasing enrollments has been through higher and higher utilization of facilities. A January 1971 study by the Coordinating Council for Higher Education concluded that the State Colleges have the most efficient utilization in California higher education, and that "A comparison of California's standards of utilization with standards from eight other states shows that those of California for classroom usage are over 80% greater than the average for other states." The proposed five-year capital outlay program represents the highest utilization of instructional facilities of any educational system in the nation.

But this achievement brings with it new considerations: We are facing a serious shortage of the essential support spaces necessary for the full operation of the existing campuses. Support facilities are critically needed to fully utilize the projected campus facilities. Such things as correction of overloaded utilities and libraries are high on our priority list. The major thrust of the 1972-73 capital outlay request is toward the full utilization of the existing campuses.

The *non-State* funded portion of the Capital Outlay Program indicates estimated expenditures of \$29.6 million for 1972-73 – and expenditures of \$84 million for the next five years. Funds required to plan, construct, and operate auxiliary projects – residence halls, dining facilities, college unions, health centers, parking facilities and special projects – are from other than State appropriations and ultimately come from user charges and/or mandatory fees.

Sincerely,



Glenn S. Dumke, Chancellor