

CAL POLY Report

California Polytechnic State University
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DATELINE

Exhibits

Kennedy Library: "A Virtual Tour: 1883 San Luis Obispo County," through June.

UU Galerie: "Whoops," student art, through June 11. Monday-Friday 10 am-4 pm; Saturday and Sunday, noon to 4 pm.

Wednesday, May 19

Health, Wellness Fair: "Parenting," UU 220, 11 am.

Thursday, May 20

Physics Colloquium: Bill Sutcliffe (Livermore National Laboratory), "Plutonium Disposition," Science E-45, 11 am.

Play: "Marvin's Room," Theatre, 8 pm. Also May 21-22. (\$)

Friday, May 21

Math Colloquium: Alexander Its (Indiana University-Purdue University, Mathematical Sciences Research Institute of Berkeley), "Riemann-Hilbert Approach to Integrable Fredholm Operators," Science A-11, 11:10 am.

History Talk: Teofilo Ruiz (UCLA), "The Terror of History: Witchcraft in Late Medieval and Early Modern Europe," Philips Hall, PAC, noon.

Math Colloquium: Pavel Bleher (Indiana University, Purdue University, Mathematical Sciences Research Institute of Berkeley), "Universality and Scaling for Zeros of Random Polynomials," Fisher Science 287, 4:10 pm.

Play: "Marvin's Room," Theatre, 8 pm. Also May 22. (\$)

Saturday, May 22

Music: Jessica Getman (student) oboe recital, Davidson Music Center 218, 3 pm.

Music: Jazz Night with the University Jazz Bands and vocalist Kevin Mahogany, Cohan Center, 8 pm. (\$)

Play: "Marvin's Room," Theatre, 8 pm. (\$)

Sunday, May 23

Music: Cal Poly Chamber Orchestra Spring Concert, Theatre, 7 pm. (\$)

Tuesday, May 25

Music: Mark Wedin (student) junior recital, Davidson Music Center 218, 7:30 pm.

Wednesday, May 26

Panel: SLOCOG, Caltrans, Ridesharing, Commuter Services, "Cuesta Grade Construction," UU 220, noon. □



FILE PHOTO (BY DOUG ALLEN)

Cal Poly students are finding ever-increasing opportunities to learn the wine-grape industry, and a newly approved agreement with Gallo (see story below) will add more.

CSU Trustees approve agreement with Gallo

The CSU Trustees approved an educational agreement May 12 allowing Cal Poly, in conjunction with E&J Gallo Winery, to establish on university land a wine-grape vineyard that supports a more comprehensive and interdisciplinary academic program related to wine-grape cultivation, sensory analysis, and the economics and marketing of wine.

Through the agreement, Cal Poly's ability to prepare students to graduate as qualified professionals with hands-on training in operating and managing state-of-the-art vineyards will be enhanced. The agreement will help California cope with the growing demand for professionals and managers in the field — a need already being felt on the Central Coast.

"Working side by side with Gallo, one of the country's foremost wine producers, will provide invaluable opportunities for our students," President Baker said. "This endeavor will certainly serve to

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Three employees receive 'outstanding' award

Darrell Blankenship, an equipment technician in the Electrical Engineering Department, Delores Estrada, a custodian in Facility Services, and Rosemary Wagner, an administrative assistant in the Graphic Communication Department, have been selected to receive the 1998-99 Outstanding Staff Employee awards.

The recipients will each receive \$500 from a private endowment fund and a plaque during the Fall Conference General Session in September.

Blankenship came to Cal Poly in 1986. A colleague called him "the most competent technician that I have known in 30 years as an engineer. His abilities and expertise make it possible for the Electrical Engineering Department to offer a quality program despite serious underfunding."

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Forum on Balkan war set

A U.S. State Department official and a former U.S. Army intelligence officer will join international studies professors from UC Berkeley and UC Santa Barbara in a panel discussion about the Balkan war on Wednesday, May 26.

The forum, titled "War in the Balkans," will run from 7 to 9 pm in the Business Building Rotunda (Room 213). Panelists include Kamal Beyoghlow from the U.S. State Department; professor Harry Kreisler, executive director of UC Berkeley's Institute of International Studies; Maj. A.J. Fonzi, a former chief of counter-intelligence in Sarajevo, Bosnia; and Dimitrije Djordjevic, a UC Santa Barbara emeritus professor of Central European history.

Fredrik Logevall, UCSB professor of American foreign relations, will serve as moderator.

Each panelist will give a 10- to 15-minute presentation, and then the floor will be open to questions from the audience.

The forum is sponsored by the History Department and College of Liberal Arts. For more information, contact the History Department at ext. 6-2543. □

Catering menus on Web

Catering menus have been added to the Campus Dining Web site, accessible from the Campus Dining home page (cpfoundation.org/dining/index.html).

Click on the Campus Catering logo to move to the Campus Catering page (cpfoundation.org/dining/catering.html). □

... 'Outstanding'

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Blankenship is also credited with having a "significant impact on the lives of students and their academic success."

"It would be very hard to find an employee more deserving of this recognition," said a co-worker.

Estrada has been at Cal Poly for 19 years. Her tireless, selfless efforts are evident in her work at Cal Poly and all that she does above and beyond her normal workday. At work she is recognized as industrious and conscientious. "No need to suggest something be done in her job.... She's already done it or is working on it," said a colleague. "Her work is top notch, never failing. She demands more of herself than most would consider."

Estrada volunteers as an usher captain at the Performing Arts Center, is active with the university's Service Awards Committee, and served on the Staff Council. She has participated in CERT, the Campus Emergency Response Training program, and has donated time to fund-raisers, such as the "Walk for Life" AIDS program.

Wagner has held a number of clerical and support positions in her nearly 25 years at Cal Poly. She began in 1974 in the Relations with Schools office, then moved to Athletics, Admissions, the College of Agriculture, and the Crop Science Department before her current assignment in Graphic Communication began in 1984.

Wagner is highly respected among her co-workers and is viewed as "the glue that holds the department together." Known as an "expert that students and faculty alike depend on for advice and counseling," she is also regarded as an "all-around very nice person," "patient," "upbeat" and "professional," as well as "positive" and "enthusiastic."

The outstanding staff members are nominated by faculty and staff members and reviewed by a committee of former award recipients. President Baker names the winners, based on the committee's recommendations. □

Springboard Job Fair set

More than 100 companies are planning to attend the annual Springboard Job Fair on Thursday, May 20, in Chumash Auditorium.

Employers representing a variety of fields are expected, including agriculture, business, engineering, liberal arts, and science and mathematics, with a special section devoted to architecture.

Faculty and staff members who wish to visit with employer representatives can do so at a continental breakfast from 8 to 9 am, or at the open forum from 9 am to 1 pm.

Students seeking summer, co-op, and career opportunities can attend the open forum. Advance registration is not required. Students should bring copies of their resumes for distribution.

Employers will schedule individual interviews from contacts made during the open forum.

More information, including a list of participants and descriptions of employment opportunities, is available on the Career Services home page: <http://www.careerservices.calpoly.edu> or from Shel Burrell at ext. 6-5974. □

Cuesta Grade widening topic of May 26 panel

North County commuters and other travelers can hear about what to expect during the widening of Highway 101 on the Cuesta Grade in a presentation at noon Wednesday, May 26, in UU 220.

Representatives from the San Luis Obispo Council of Governments, Caltrans, the regional Ridesharing office, Cal Poly Commuter Services, and others will discuss the upcoming construction and its impact on commuters.

The presentation will address anticipated delays and changes, the construction timeline, alternative transportation options, and a new incentive program available to Cal Poly students and employees.

The three-year widening project, to begin in early August, will include additional truck lanes both north- and south-bound, as well as a pullout area for disabled vehicles.

The presentation will let those who are planning to leave San Luis Obispo for the summer know what to expect when they return to town in the fall.

For information, call Jacquie Paulsen, Commuter Services, ext. 6-6680. □

Cal Poly to host 'AVID' 9th, 10th graders

Cal Poly is bringing 9th and 10th graders from San Luis Obispo and northern Santa Barbara counties to campus for a Pre-Collegiate Symposium on Friday and Saturday, May 21-22.

The students are all participants in the federally funded AVID (Advancement via Individual Determination) program, designed to encourage children from disadvantaged homes to go to college.

The Pre-Collegiate Symposium will provide the high schoolers with information about the university's admissions requirements, various programs, and the campus in general.

The event will include a workshop on preparing for the SAT and ACT, campus tours, and hands-on experience researching scholarships and other financial aid on the Internet. Some students will stay overnight in a residence hall.

The program is sponsored by the university's Retention and Outreach Programs office, Admissions and Recruitment, Housing and Residential Life, and the Upward Bound Program, as well as the County Office of Education.

For more information, call Donna Davis, coordinator of Retention and Outreach Programs, at ext. 6-6774. □

'Real Time vs. Real Fast' topic of IEEE meeting

Richard Fryer, independent consultant in real-time embedded systems, will present "Real Time vs. Real Fast" at the next meeting of the Central Coast section of the Institute of Electrical and Electronics Engineers from 7 to 8 pm Tuesday, June 1, in Room 206 in the Engineering East Building.

Refreshments will be served at about 6:30 pm.

For information, call Ali Shaban of the Electrical Engineering Department, at ext. 6-2918. □

Here's how to reach us

The *Cal Poly Report* is published every Wednesday during the academic year. Items submitted by 10 am Thursday appear in the following Wednesday's edition.

E-mail articles to polynews@poly mail. Questions? Call ext. 6-1511. □

Math students to talk on asteroid impact effects

Cal Poly had two winning math teams in the recent 1999 Mathematical Contest in Modeling. Both teams were asked to study the effects of an asteroid impact at the South Pole.

Students Joel Fish, Nathan Royer and Ryan Tully-Doyle will present their meritorious award-winning paper at an Undergraduate Mathematics Colloquium set for 11:10 am to noon Thursday, May 27, in the Mathematics and Science Building, Room 226.

The students determined that an impact by an asteroid of the dimensions given would have no significant effect. They then generalized the problem to larger asteroids, different impact locations, and different angles, and in each case examined potential casualties and damage.

They concluded that either an oblique impact at the pole or a land strike in a non-polar region could result in a significant opaque dust cloud with long-term catastrophic effects. An ocean strike could create tsunamis large enough to result in coastal damage and, what is more important, would inject enough water into the middle atmosphere to cause a change in world climate.

The members of the other team were Jamie Gordon, Jeff Mintz and Andy Oster, who also earned a meritorious award for "An Asteroid Impact Mode: A Tale of Two Ice Shelves." They presented their paper in a previous undergraduate mathematics colloquium. □

GPS receiver to be installed in Poly Canyon

The U.S. Geological Survey will build a Global Positioning Satellite receiver in Poly Canyon this summer.

The receiver will measure ground movement of less than one-quarter inch to provide information on the earth's movement and possibly help predict the likelihood of earthquakes.

Cal Poly is looking for an exact location for the project. □

Obituary: Frieztzsche

English professor emeritus Arthur Frieztzsche died May 4 in a local hospital.

He was a member of the English Department faculty from 1965 to 1987. He taught at Utah State University in Logan from 1956 to 1965.

Frieztzsche earned a bachelor's, master's and doctoral degree from UC Berkeley. □

'Complex instruction' focus of workshop

Twenty-two faculty members from across campus who are associated with the University Center for Teacher Education and its students participated in a two-weekend workshop on "complex instruction," a form of group learning designed to ensure that no student is left behind.

Complex instruction is devoted to developing higher-order thinking skills, raising the status of learners, providing equal access for all learners, and using the multiple abilities of participants.

The main presenters were Stanford University professors Elizabeth Cohen and Rachel Lotan, both respected internationally for their research and promotion of learning in groups. Cohen teaches education and sociology and has served as director for the Program for Complex Instruction at Stanford since its inception. Lotan is co-director of the program and senior research scholar. Their recent book, "Working for Equity in Heterogeneous Classrooms" was one of the texts used for the workshop.

Participants met in January and April to study and plan how to use complex instruction in their classes at Cal Poly. They discussed such things as status problems found in their classes and how to address them, how to create tasks that use multiple abilities, and how to clearly describe criteria in order to produce good group projects.

The workshop was coordinated by UCTE's Susan McBride, who serves as the project director for the Program for Complex Instruction at Cal Poly. Elaine Chin and Alice Tomasini, also from the UCTE, were project assistants. Funding for project activities is provided by a grant from Stanford of money from The Stuart Foundation. Grants over the years have funded Cal Poly faculty involvement as well as participation by 120 area teachers, who have studied how to implement complex instruction in their public school classrooms. □

Deadline approaching for NSF proposals

The deadline to apply for a National Science Foundation Course, Curriculum and Laboratory Improvement grant is approaching.

Proposals are due to the NSF by Monday, June 7. Historically this program has had a November deadline; annual June deadlines are anticipated in the future.

For further information or an application, call the Grants Development office at ext. 6-2982. □

... Gallo

(Continued from page 1)

further our educational tradition of 'learn by doing.'"

Gallo will pay to develop and operate vineyard sites totaling up to 150 acres for 30 years. Gallo has agreed to pay all capital costs of the project.

Cal Poly will use the vineyard sites as a classroom and laboratory for students and as a test-bed for applied research by both faculty members and students. Plans call for a curriculum offering extensive interdisciplinary instruction, and Gallo will offer internships related to the course work. Gallo will also provide technical and scientific expertise to support the curriculum and research programs. Sustainable and low-impact agriculture methods will be used to farm the vineyard.

As many as 400 students a year will be involved through classes, senior projects, theses, internships and research. All areas of viticulture will be open to the students, including soil and plant testing, irrigation and water, environmental management, seasonal operations, economics and marketing.

Cal Poly also will receive payments from Gallo based on the annual revenue from the sale of the grapes. Water for the vineyard will come from Cal Poly wells and irrigation systems.

The agreement also stipulates that the vineyard will be developed in phases, with the first 50-acre plot being planted next spring at Chorro Creek Ranch, on Highway 1 northwest of the central campus. If all 150 acres are used, it will be 2.5 percent of the land that is available to the College of Agriculture. □

Position vacancies

Vacancy information and applications for the following positions are available from the appropriate Human Resources office. Information can also be accessed from the Cal Poly home page on the Web at www.calpoly.edu. (Click on "General Information").

FACULTY (Adm. 312, ext. 6-2844)

Candidates interested in faculty positions are asked to contact the appropriate department office at the phone number listed for more information and an application. Please submit all application materials to the department head/chair unless otherwise specified. Rank and salary are commensurate with qualifications and experience, and timebase where applicable, unless otherwise stated.

Part-time lecturer pools are currently open in several departments. The following departments are currently recruiting to establish pools of applicants for possible part-time assignments as determined by need during the 1999-2000 academic year. Qualifications vary by department. For qualifications and additional information, please contact the department at the number given or view the appropriate on-line ad at <http://academic.personnel.calpoly.edu/facpositions.html>. Please request applications from the department, and refer to the appropriate recruitment code in any application materials.

#93063: Part-time lecturer pool, Bioresource and Agricultural Engineering (756-2378). Closing date: June 11.

#93115: Part-time lecturer pool, Aeronautical Engineering (756-2562). Closing date: Aug. 1.

#93118: Part-time lecturer pool, City and Regional Planning (756-1315). Closing date: June 9.

#93088: Part-time lecturer pool, Liberal Studies Program (756-2395). Closing date: June 15.

#93101: Part-time lecturer pool, Civil And Environmental Engineering (756-2947). Closing date: June 15.

FOUNDATION (Foundation Adm. Building, job line at ext. 6-7107). All Foundation applications must be received (not just postmarked) by 5 pm of the closing date. (No faxes.)

Printing Technician, University Graphic Systems (\$17.34-20.87/hr., 3 to 9 pm Sunday-Thursday). Responsible for maintaining University Graphic System and Graphic Communication Department standards and procedures of operation. Requirements: High school or equivalent; two years of college with major in printing or related field preferred. Five years of experience in maintaining printing equipment including sophisticated computerized electronic and mechanical systems. Must be

able to set up, operate, and maintain printing equipment, electronic and mechanical. Must have skill in training others; knowledge of estimating, costing, purchasing, accounting, budget and quality-control systems associated with the graphic communication industry. Closing date: May 28.

Student Alumni Programs Coordinator, Alumni Relations (\$30,324-36,228/yr.).

Responsible for strengthening the link between current Cal Poly students and alumni. Requirements: B.S. and minimum of one year of professionally related experience; two years of involvement in a student club or organization preferred. Additional professional experience may substitute for the degree on a year-for-year basis. Must have knowledge of budget management; knowledge of codes and bylaws of student clubs and organizations preferred. Must have excellent interpersonal skills, excellent written and oral communication skills, comprehensive presentation skills, computer and organizational skills. Must be able to work irregular hours, including evenings and weekends. Closing date: Position is open until filled; review of applications begins June 4. □

Incoming freshman awarded \$20,000

Jered M. Gray, a graduating senior at Palmdale High School, was selected to receive a \$20,000 scholarship from Wal-Mart to help pay his expenses while studying computer engineering at Cal Poly.

Gray was awarded one of approximately 250 Competitive Edge Scholarships, given to deserving freshmen throughout the country pursuing degrees in science or technology.

The scholarship pays \$5,000 a year for four years. It was established to ensure that America's best and brightest students become leaders in science, engineering and computer-related fields, according to a Wal-Mart representative.

Gray, the fourth Cal Poly student to receive the scholarship, was chosen for his excellent academic record, community involvement and leadership. □

New CSU vice chancellor for HR picked

Jackie McClain, executive director of human resources and affirmative action at the University of Michigan, has been appointed vice chancellor of human resources for the CSU, effective June 1. □

College of Engineering recognizes faculty, staff

The College of Engineering recently recognized its outstanding faculty and staff members, as well as professors from the colleges of Science and Mathematics and Liberal Arts.

Aeronautical engineering professor Russ Cummings won the \$2,000 TRW Excellence in Teaching Award; mechanical engineering professor Jim Meagher received the \$3,000 Litton Research and Development Award; and aeronautical engineering professor Dan Biezad took home the \$3,000 Northrop Grumman Excellence in Teaching and Applied Research Award.

During the past five years, Cummings has been the thesis advisor for 12 graduate students who have received funding for NASA projects he generated. Cummings has also been the principal investigator in a \$650,000 NASA multidisciplinary design grant that dealt with the development of a new approach to engineering design education.

Meagher has performed many research projects in stress analysis, biomechanics, rotordynamics, and machinery vibration. As a result of major grants he received from the Bently Nevada Corp. and Solar Turbines, a new vibrations and rotor dynamics lab was established in the Mechanical Engineering Department.

Biezad teaches and does research in the area of piloted flight control and simulation. His book "Integrated Navigation and Guidance Systems" was recently published by the American Institute of Aeronautics and Astronautics.

The engineering student body voted on the recipients for the Outstanding Achievement in Teaching awards and the Outstanding Faculty Advisor Award.

Winners included mathematics professor Goro Kato, known for bringing abstract math principles down to earth, and psychology and human development professor Don Ryujin, whom students appreciate for his upbeat nature and for relating class material to their daily lives.

Civil engineering professor Kurt Lo won the 1999 Outstanding Faculty Advisor Award for his mentorship of Chi Epsilon, the civil engineering honor society.

Outstanding Staff Awards were given to Industrial and Manufacturing Engineering Department secretary Rose Welch and to Civil and Environmental Engineering Department lab technician Beverly Stephen. □