Project aims to keep surgeons operating

It’s a fair bet most patients want their surgeons comfortable and happy when the cutting starts.

Unfortunately, surgeons who use less invasive “laparoscopic” surgery techniques are often just the opposite. They’re forced to work with long, awkward instruments while viewing fish-eye video images from a small camera, all of which leads to repetitive stress injuries.

CSUS professor Warren Smith is trying to help. Laparoscopic surgery, which involves smaller incisions than traditional surgery, is wonderful as far as patient recovery goes. So Smith is focused on making the operations less taxing for the surgeons.

For the last six years, he and student assistants have been perfecting a computer-controlled “ergonomic workstation” to monitor surgeons’ mental and physical stress. They’re trying to identify where the worst stress occurs so improvements can be made. And now Yale University researchers, who are working in the same area, have purchased the system for their own studies.

“This is a huge issue for surgeons,” Smith says. “Hopefully, research using this system will help companies develop better instruments, and help hospitals develop better operating rooms and procedures.”

It isn’t simple – or inexpensive – to turn an eager student into a surgeon. They usually spend at least nine years in training after earning their four-year college degrees, according to the American Medical Association. The longer they can extend their career after that, the better.

Smith got started after talking with Martinez surgeon Ramon Berguer, who was concerned about the number of surgeons suffering from injuries such as carpal tunnel syndrome, sore backs and shoulders, and loss of feeling in their fingers.

Smith and his students introduced their first monitoring system five years ago at a medical conference in San Diego. Volunteer surgeons were wired to the computer, which then measured muscle movement while they performed various tasks with surgical instruments.

“The surgeons were very interested,” Smith says. “One after another they would tell us about pains in their shoulder or thumbs going numb, all related to the use of their instruments. Here were these doctors asking us engineers if we could help with medical problems.”

After years of improvements, the latest system is much more sophisticated. It now measures muscle movement, brain waves, hand sweat, heart rate, and the angle of arm and head.

The system is now wireless, which made it so much more comfortable for surgeons. A very small computer is worn in a belt pouch and sends signals to the main laptop computer.

It doesn’t interfere with surgery, so Yale has been able to use it to monitor surgeons in operations on human patients.

– Frank Whitlatch

Wellness classes now in session

The noontime and after work wellness program is once again offering activities for faculty and staff.

The programs began Feb. 11 and continue through May 16, and include classes led by an instructor as well as “casual use” activities. Attendees will be required to register with the instructor on the first day of participation. Noontime activities last from 12:05 p.m. until 12:50 p.m.

Activities with instructors are held only during noontime and include aqua aerobics, tai chi, weight training, lap swimming, and stretch and tone. Casual use activities at noontime and after work include handball, basketball and tennis.

More information is available from Kim Harrington at harringtonk@csus.edu or by visiting www.csus.edu/fas/trainex/train.htm.
The CSU Bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writ- ing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSULB bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.

The CSU bulletin is published on Mondays of the academic year. Campus news may be submitted at any time. The Sunset campus may be faxed to (510) 278-5290 or mailed to Public Affairs, Sacramento Hall Room 220, campus mail code 6026. Deadline for all materials is 10 a.m. on the Wednesday before publication. Items will be published on a space-available basis and are subject to editing. Writing should be in news style, short and direct. For inquiries call (916) 278-4156.
USA provides path for staff to get involved

The University Staff Assembly offers a great way for staff to get involved on campus.

It was created in 1985 by an executive order from President Donald R. Gerth, with the goal of promoting staff involvement. And the group has grown quickly. Currently, the vice president, says there are more representatives now than there were when she was first involved in the 80s.

An important goal of the assembly is to promote unity and build morale on campus. Its members organize several events during the year, including a HalloWeek contest in which department representatives decorate their office for a contest, a fall social and a spring picnic.

The annual staff award luncheon is a time for staff to receive recognition for achievement, says Elizabeth O'Brien, immediate past president of the assembly. It is held every spring.

Last fall Thomas Matlock, the current president, organized a campaign to collect teddy bears for the victims of the Sept. 11 tragedy.

The assembly also appoints representatives to campus committees such as the academic policy committee, university committee for persons with disabilities, child center's parent advisory council and the CSUS honorary degree committee. There are now 22 representatives on an executive board. Each group meets once a month.

The group is developing a newsletter, which will include a calendar of upcoming events, names and descriptions of the various university committees staff serve on and the time commitments, a form to submit nominations to those committees and a ballot at voting time.

www.csus.edu/usa, has information about the various committees and all the meetings. It also has pictures from some of the events and contests.

The assembly is a great opportunity for staff to learn about the University outside their department, says Peggy Allan, the representative from the College of Arts and Letters. "I haven't served on any of the University committees we have but I've gotten to know a lot more and a lot of the people I would have without being involved with USA."

Gabi Greffish

Part-time
Continued from page 2

Physics and Astronomy
Physics, Astronomy and Observational Astronomy

College of Social Sciences and Interdisciplinary Studies
Anthropology

(B.A. in Anthropology Required)
Lab in Physical Anthropology; (Ph.D. in Anthropology Required)
Introduction of Physical Anthropology; Culture; Magie; Witchcraft and Religion; Cultural Diversity; The Nature of Culture; Ancient Technology; Archaeology; African; Japanese; Latin American; Southeast Asian; Native American Research; Introduction to Anthropological Theory; Cultural Theory; Introduction to Cultural Anthropology; Ethnic Studies

Ethnic Studies

Ethnic Studies 011, Introduction to Ethnic Studies, and Ethnic Studies 100, Advanced Study

Family and Consumer Sciences

Introductory and Advanced Courses in Nutrition; Food Sciences and Food Management; Apparel Marketing and Design; Clothing and Textiles; Human Development and Family Studies; Consumer Studies; Student Teacher Supervision

Gerontology

Services for the Aging; Social Policy and Aging and Issues of Aging in America; Gerontology Practice

Government

All Areas of Government

Introductory Psychology; Research Methods and Statistics; Clinical Psychology (undergraduate and graduate courses); Cognitive Psychology; Controversial Issues in Psychology; Developmental Psychology (child, adolescence, adulthood and aging); Death and Dying; History of Psychology; Motivation; Perception; Psychological Theories and Social Psychology; Humanistic Psychology

Public Policy and Administration

California Land Use Policy; Judicial

USA provides path for staff to get involved

CREATE WEB-BASED COURSES

University computing and communications services is offering a 12-week technology training workshops to help faculty develop Web-based courses. The courses are divided into levels to address the faculty members' familiarity with Web tools.

Those just getting started can learn about online course tools and experience an online course. The next level of courses deals with skills, providing participants the opportunity to develop a faculty Web page and an online course syllabus. Level 2 deals with pedagogy and technology and allows participants to create a module of instruction on the Web. The last level deals with WebCT course tools and shows how to complete an online course environment.

For a complete course schedule or to register contact the technology staff at webcourse@csus.edu.

CALLING FALL GRADUATES

The graduation application filing deadline for fall 2002 bache- lor's degree candidates is Feb. 22.

Those planning to graduate in the fall can pick up application forms at the registrar's office and records service center in Lassen Hall, with the exception of business, liberal studies, engineering, music and computer science majors, who must obtain their forms from the individual department offices. The graduation application fee is $12.50.

Details: 278-4852.

CAMP COUNSELORS WANTED

The CSUS Aquatic and Boating Safety Center at Lake Natoma is looking for summer staff to work with summer camp participants and teach a variety of aquatic skills. Each summer the Center offers a public, coed, day camp for about 1,300 campers, ages 7-17 and offers instruction in water-skiing, personal watercraft, motor boat safety, canoeing, kayaking, sailing, windsurfing and rowing.

Applicants must have completed or be enrolled in their first year of college and be at least 17 years old.

Applications are available May 28 through Aug. 23. Applications are available at the Associated Students business office on the third floor of the University Union. Internships are also available.

Details: Cindi Dulgar at 985-7239 or csus@saclink.csus.edu.

SAVE 10 PERCENT WITH ONECARD

The OneCard Center will be having a series of special savings periods for faculty, staff and students.

Those using a OneCard at featured campus eateries will save 10 percent on food purchases. At least three campus eateries will be featured each week from Feb. 18 through March 22.

The schedule is:

• Feb. 18-22: La Creperie, Round Table Pizza and University Center Restaurant;
• Feb. 25- March 1: River Front Center; The Emporium, Kong Fu Fats and University Center Restaurant;
• March 4-8: Taco Bell, Burger King and University Center Restaurant;
• March 11-15: Togo's, Java City, Union Station and University Center Restaurant;
• March 18-22: River Front Center, Gordito's and Da Deli/TCBY.

OneCard deposits may be made at an advisory transfer stations on campus – in the library, Lassen Hall, University Union and the OneCard Center.

OneCard holders can also make deposits by writing a check payable to CSUS OneCard and mailing it to campus zip 6127.

Details: www.csus.edu/onecard.

CLASSIC PIANO CONCERT

Guest pianist Frank Weins brings life to the music of Beethoven, Liszt, Rachmaninoff, Schubert and Robert Schumann at 7:30 p.m., Sunday Feb. 24 at CSUS. The event is in the music recital hall in Capistrano Hall.

Wiens debuted at Carnegie Hall in 1984 and in London in 1986. He has toured the Soviet Union and South Korea and currently tours throughout the United States. He is a piano professor at the University of the Pacific, where he received the Distinguished Faculty Award in 1997 and the Faculty Research-Lectures Award in 2000.

Tickets are available at the CSUS Ticket Office at (916) 727-4323, at Tickets.com at (916) 766-2277 or at the door one hour prior to the performance.

Gerber memorial

A campus memorial for Austin J. Gerber, dean emeritus of the Col- lege of Business Administra- tion and former interim CSUS president, will be held from 4 to 6 p.m., Tuesday, March 5 in the University Union Forest Suite.

Gerber joined the CSUS faculty in 1965 and was interim president from 1982 until 1983. Known for his work in the College of Business Administration when he retired in 1986.

He died Jan. 28 at a Roseville hospital.

Gerber

Gerber memorial

A campus memorial for Austin J. Gerber, dean emeritus of the College of Business Administration and former interim CSUS president, will be held from 4 to 6 p.m., Tuesday, March 5 in the University Union Forest Suite.

Gerber joined the CSUS faculty in 1965 and was interim president from 1982 until 1983. Known for his work in the College of Business Administration when he retired in 1986.

He died Jan. 28 at a Roseville hospital.

Gerber

Gerber memorial

A campus memorial for Austin J. Gerber, dean emeritus of the College of Business Administration and former interim CSUS president, will be held from 4 to 6 p.m., Tuesday, March 5 in the University Union Forest Suite.

Gerber joined the CSUS faculty in 1965 and was interim president from 1982 until 1983. Known for his work in the College of Business Administration when he retired in 1986.

He died Jan. 28 at a Roseville hospital.
ongoing “Thresholds,” painting and mixed media exhibit by Sacramento artist Frank Brooks, University Union Gallery, 10:30 a.m. - 3:30 p.m., Monday - Friday and 5 - 8 p.m., Wednesdays and Thursdays. Continues to Feb. 22. (916) 278-6997.

Student Award Show, noon - 4:30 p.m., Monday - Friday, Else Gallery. (916) 278-6166. Continues to March 4.

Exhibit, master of art student Janet Kuhle, noon - 4:30 p.m., Monday - Friday, Wirt Gallery. (916) 278-6166. Continues to Feb. 22.

mondays, feb. 18 Eyes on the Prize: Emerging Voices: 1959-1966, film, Black History Month, noon - 1:30 p.m. and 5 - 6 p.m., CSUS closed circuit TV and Library 1522. (916) 278-5363.

African American Women in the Struggle For Justice, film series, Black History Month, 2, 3, 3:30 and 4:30 p.m., CSUS closed circuit TV and Library 1533. (916) 278-5363.

“Why They Hate Us: What the Arab Press Says About the U.S.,” Thursday, Feb. 21, CSUS Center for African Peace and Liberties, campus forum, 8 p.m., CSUS Center for African Peace and Liberties. (916) 278-5363.

Tuesday, Feb. 19 “Sept. 11: Terrorist and Civil Liberties,” campus forum, moderated by CSUS professor William Dorman, noon, University Union Hinde Auditorium. (916) 278-6997.

Wednesday, Feb. 20 Eyes on the Prize: Power: 1967-1968, film, Black History Month, noon - 1:30 p.m. and 5 - 6 p.m., CSUS closed circuit TV and Library 1532. (916) 278-5363.

“Quetzalcoatli-Cittalli,” Aztec dance group, noon, University Union Ballroom. (916) 278-6997.

Thursday, Feb. 21 “Teaching Tomorrow’s Professionals: Techniques for Graphic Design, Interior Design and Photography,” educator’s conference, 8:30 a.m., Design Gallery, Mariposa Hall 4000. (916) 278-3896.

Eyes on the Prize: Promised Land: 1967-1968, film, Black History Month, noon - 1:30 p.m. and 5 - 6 p.m., CSUS closed circuit TV and Library 1533. (916) 278-5363.

African American Artists, film series, Black History Month, 2 and 2:30 p.m., CSUS closed circuit TV and Library 1533. (916) 278-5363.

“Soul Reverb,” Sacramento Black Art of Dance, Black History Month, 8 p.m., Solano Hall 1010. Tickets $12 general/$10 students/$8 children under 12. Tickets at CSUS Ticket Office at (916) 278-4323 or at Tickets.com at (916) 766-2277.

Friday, Feb. 22 “Race, Gender, Power: People of Color Along the American River,” CSUS professor Shelly Moore, Renaissance Society Forum, 3 p.m., Mendocino 1003. (916) 278-7834.

Eyes on the Prize: Nativityme: 1964-1972, film, Black History Month, noon - 1:30 p.m. and 5 - 6 p.m., CSUS closed circuit TV and Library 1533. (916) 278-5363.

The ‘N’ Word: Is it Just Another Word,” panel discussion, Black History Month, 7 p.m., University Union Ballroom. (916) 929-7220.

“Soul Reverb,” Sacramento Black Art of Dance, Black History Month, 8 p.m., Solano Hall 1010. Tickets $12 general/$10 students/$8 children under 12. Tickets at CSUS Ticket Office at (916) 278-4323 or at Tickets.com at (916) 766-2277.

Women’s basketball vs. Montana State, 7 p.m., Hornet Gym. Tickets $6 general/$4 seniors/$2 children ages 6 - 12/CSUS students free. Tickets available at the event. (916) 278-6896.

Sunday, Feb. 24 Piano concert, Frank Wiens, 7:30 p.m., Music Recital Hall in Capitol Haus. Tickets $10 general/$8 students and seniors. Tickets at CSUS Ticket Office at (916) 278-4323 or at Tickets.com at (916) 766-2277.

Sports & activities

Thursday, Feb. 21 Cherish the Ladies, Irish music and dance troupe, noon, Exhibit Hall. (916) 278-4323 or at Tickets.com at (916) 766-2277.