

UC SANTA CRUZ

Winter 1998

R E V I E W



TODAY'S



STUDENTS



Plus: *elementary school kids discover the university,
behind-the-scenes learning,
building the tools of modern astronomy*

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UC Santa Cruz

Review / Winter 1998

Chancellor
M.R.C. Greenwood

Director of Public Information
Elizabeth Irwin

Editor
Jim Burns

Art Director/Designer
Jim MacKenzie

Associate Editors
Mary Ann Dewey
Jeanne Lance

Writers
Carolyn Christopherson
Robert Irion
Barbara McKenna
Jennifer McNulty
Francine Tyler

Cover photography
R. R. Jones

Office of University Advancement
Carriage House
University of California
1156 High Street
Santa Cruz, CA 95064-1077

voice: 408.459.2501
fax: 408.459.5795
e-mail: jrburns@cats.ucsc.edu
web: www.ucsc.edu/review

Produced by UCSC Public Information and Publications. Printed on recycled paper; recyclable. 2/98(98-116/38.7M)

UC Santa Cruz (USPS 650940)
Vol. 35, No. 3 / Winter 1998
UC Santa Cruz is a series of administrative publications published quarterly by University Advancement at UC Santa Cruz. Periodicals postage paid at Santa Cruz, CA 95060. Postmaster: Send address changes to the University of California, Santa Cruz, University Advancement, 1156 High Street, Santa Cruz, CA 95064-1077.

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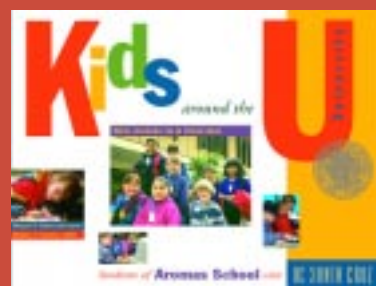
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FROM THE CHANCELLOR

By M.R.C. Greenwood



don harris

As chancellor of UC Santa Cruz, I am asked frequently about the many attributes that define the quality and character of our extraordinary campus: our historic commitment to teaching and the undergraduate experience; the nationally recognized caliber of UCSC's graduate programs and research activities in the arts, humanities, and sciences; our new and innovative school of engineering; the many important contributions that the campus's people and programs make to the vitality of our region of the state of California.

While UCSC is indeed multifaceted, no description of the campus can—or should—ignore our most precious resource: UCSC's students. They are, after all, the people who are the focus of our educational endeavors and energies today; the people our faculty are diligently preparing to become the leaders of tomorrow's society.

Our cover story in this issue of the *Review*, therefore, puts the spotlight on "Today's UCSC Students."

While we regularly provide you, our readers, with information about our current students, this issue of the magazine tells the story of our student body through the lives of 10 of our students. Though their interests are varied, the 10 have much in common:

No description of the campus can—or should—ignore our most precious resource: UCSC's students. They are, after all, the people who are the focus of our educational endeavors and energies today; the people our faculty are diligently preparing to become leaders of tomorrow's society.

They are bright, eager to acquire new knowledge, committed to improving society, and very focused.

At UCSC, these traits are not unique to the students featured in this magazine. In fact, they are qualities that are shared by the large number of UCSC students that I've had the pleasure of meeting and working with in my year and a half as chancellor.

Whether at college open houses, at meetings with student leaders and members of a variety of student organizations, or at receptions at University House, my interactions with UCSC students have left me very optimistic about the future that awaits both them and the society to which they will contribute.

The interactions have also left me excited about UC Santa Cruz's future in the new millennium. For if it's true—and I believe that it is—that one important measure of the vitality of any university is the caliber of students it attracts, then UCSC will continue to occupy a very special place in higher education.

M.R.C. Greenwood
Chancellor

New degree in business management economics

For the first time in campus history, UCSC is offering an undergraduate degree in business management economics. Responding to strong demand from current and prospective students, economics faculty proposed the new bachelor of arts degree program. Beginning this winter quarter, students can officially declare the new major.

"UCSC is becoming an increasingly prominent player in the regional economy, and this new major will help prepare students for burgeoning job prospects in the computer industry as well as other business growth in the area," said Chancellor M.R.C. Greenwood.

The business management economics major builds on the strengths of UCSC's economics program while meeting the needs of a growing number of students who are interested in business and management in the private, nonprofit,

and public sectors, said economics professor Nirvikar Singh. He added that the Economics Department's marketing, finance, and accounting electives are consistently among the most popular classes. "Students have been begging us to do this," he said.

The new program combines the strong analytic approach of economics with the technical aspects of management.

In addition to intermediate and advanced accounting courses, classes offered as part of the new major include:

- ▶ Money and Banking;
- ▶ Real Estate Economics;
- ▶ Industrial Relations;
- ▶ Management in the Global Economy;
- ▶ Managerial Finance;
- ▶ Business Strategy and Entrepreneurial Studies;
- ▶ Environmental Business;
- ▶ Security Markets and Financial Institutions;
- ▶ Management Science;
- ▶ Economics and Management of Technology and Innovation.

Music major puts focus on performance

Growth in the Music Department has not been limited to facilities. Along with the new Music Center, the department has been expanding its nationally recognized music program. This past fall two initiatives were launched to strengthen the department's performance programs.

A new bachelor of music (B.M.) degree offers greater opportunities for students interested in focusing their studies on performance. And to help fill that major with top students, the Resident Student Ensembles scholarship program has been created to recruit top student performers.

Music majors can now focus their studies through either the



The UCSC Orchestra rehearses.

existing B.A. degree in music, which stresses scholarly achievement, or through the B.M. degree.

Beginning next academic year, the Resident Student Ensembles program will provide four-year merit-based scholarships to four UCSC students.



Chancellor Greenwood, left, with Chandra and Narpal Bhandari, whose \$250,000 gift has established an endowed chair in India studies at UCSC

Gift establishes rare chair in India studies

A \$250,000 gift to UCSC has established one of the country's few endowed chairs in India studies and is the first step in a vision to establish an international center for the study of Indian civilization and culture.

The gift comes from Narpal and Chandra Bhandari, Silicon Valley entrepreneurs who were both born in India. Their gift has established the Chandra Bhandari Endowed Chair in India Studies, named in honor of Chandra Bhandari, an educator with a lifelong interest in the history and culture of India and the precepts and practices of nonviolence. The announcement coincided with Chandra Bhandari's birthday. "I am deeply touched by the love and affection from my husband that this gift represents," she said.

The establishment of the chair came just a month before the 50th anniversary of Indian independence (August 15, 1947). "Fifty years ago, India launched the most ambitious democratic project in world history," said Narpal Bhandari. "I believe it is vital that we devote resources to the study of what is not only the world's largest democracy but also one of the world's oldest and most enduring cultures," added Bhandari, a trustee of the UC Santa Cruz Foundation.

The endowment will fund a

spectrum of activities, including distinguished scholars-in-residence, graduate research fellowships, course development, international conferences, the acquisition of resources on India studies for the University Library, and activities of faculty in the field of India studies.

"We are delighted to receive this gift," said Chancellor M.R.C. Greenwood. "Narpal and Chandra Bhandari are well respected for their ongoing support of education both regionally and in India, having dedicated personal resources and their talents as educators over the years. Their gift has established an important endowment that will be a catalyst for a myriad of activities not only in the area but across the globe."

In early January Chancellor Greenwood led a delegation of top campus administrators and faculty, who traveled to India at the invitation of the Indian ambassador. The chancellor met with the Indian prime minister, and she and members of the group also met with a number of other key leaders in government, academia, the arts, and business. Campus representatives visited the cities of Calcutta, Bombay, Hyderabad, Bangalore, and New Delhi. Upon her return, Chancellor Greenwood said, "This journey has helped strengthen the ties between our campus and the world's largest democracy. As a result, I expect we will build many new mutually beneficial partnerships in a wide array of disciplines."

Fall enrollment highest in campus history

With a student body totaling 10,638, UCSC recorded its highest enrollment ever this past fall—up 4 percent, or 423 students, from the prior year.

The fall enrollment included 6,970 continuing, 239 returning, and 3,429 new students. Of the total, 9,570 were undergraduates and 1,068 were graduate students.

"We met our target for new undergraduates, and we've maintained the diversity and quality of students," said J. Michael Thompson, associate vice chancellor for enrollment management and director of admissions. The boost follows a similar rise last year.

"There's increased interest in UCSC, and that's due to our success in communicating about the campus both through our outreach materials and the personal school visits made by admissions counselors, current students, and alumni volunteers," said Thompson.

Beginning this year, state funding is based almost entirely on a campus's enrollment figures.

Three receive Alumni Association's top honors

Three people committed to enriching the lives of others have won the top awards given annually by UCSC's Alumni Association.

Marge Frantz (top), a lecturer emerita in the American Studies and Women's Studies Departments, won the Distinguished Teaching Award for 1997. Frantz is highly regarded for her dedication to students and passion for her subject matter.

John Reid (center), the founder and executive director of A Grassroots Aspen Experience, won the Alumni Achievement Award. Through his nonprofit organization in Aspen, Colorado, Reid helps inner-city kids take part in an outdoor adventure far from their urban neighborhoods.

Angie Christmann (bottom), a coordinator for student programs and events at Cowell College, won the Outstanding Staff Award. For nearly 27 years, Christmann has helped students make their ideas for festivals, performances, and other events a reality.

The three, nominated by students, alumni, faculty, and staff and selected by the Alumni Council, were honored in a campus ceremony in late January.



don harris



courtesy john reid



don harris

\$500,000 fellowship to UCSC astronomer

For the fourth consecutive year, a UCSC researcher has captured one of the nation's most prestigious honors for young faculty members: a David and Lucile Packard Fellowship for Science and Engineering, worth a total of \$500,000.

Astronomer Dennis Zaritsky, 33, will receive \$100,000 per year for the next five years to support his innovative research on the life histories of stars in two nearby galaxies. He is among 20 scientists and engineers chosen by the Packard Foundation for their exceptional promise and creative abilities.

UCSC is one of just four institutions that have earned at least one Packard Fellowship each year for the last four years. The others are the California Institute of Technology, the University of Chicago, and UC San Francisco.

"These prestigious fellowships to our recently recruited faculty attest to the continuing quality of UC Santa Cruz faculty," said Chancellor M.R.C. Greenwood. "These fellowships are exceptionally competitive and indicate that our young researchers are second to none—and their accomplishments enhance the high-quality research and teaching at UCSC."

Zaritsky, an assistant professor of astronomy and astrophysics and an assistant astronomer at UC Observatories/Lick Observatory, joined the UCSC faculty in 1994.

Zaritsky's research addresses one of astronomy's fundamental questions: How did galaxies evolve?

Dennis Zaritsky



ucsc photo services

Health care approved for domestic partners

The university's Board of Regents, meeting in November, voted 13 to 12, with one abstention, narrowly authorizing UC President Richard C. Atkinson to extend health care benefits to the same-sex domestic partners of UC employees and certain other family members who are financially interdependent.

"This was the right decision by our Board of Regents," UCSC's chancellor, M.R.C. Greenwood, said following the vote. "It recognizes the important principle of equal compensation for equal work and will help to keep our university competitive and world class."

Atkinson brought the proposal before the Regents in July, saying that offering medical, dental, and vision care benefits to same-sex domestic partners would strengthen UC's ability to compete for faculty and staff without significantly increasing costs to the university.



jennifer acunaty

Face painting and pumpkin painting are always a big hit with the many children who attend UCSC's Harvest Festival each year. The festival held this past fall was special for another reason: It was part of a weekend of activities marking the 30th anniversary of UCSC's Farm & Garden. In all, the three-day celebration in early October attracted more than 1,000 people to UCSC for tours, workshops, and garden talks; a Saturday-evening benefit dinner that featured a vegetarian menu prepared by some of the area's best-known chefs; and a Sunday symposium for alumni of the Farm's apprenticeship program.

NSF awards \$460,000 for visualization work

UCSC scientists soon will create powerful and informative graphical images from their data at a new interdisciplinary laboratory, thanks to a \$460,000 equipment grant from the National Science Foundation.

The Natural Sciences Division will match the federal grant with about \$240,000 in funding and equipment, making the new lab worth about \$700,000.

Today's complex scientific research makes visualization an



Jane Wilhelms

essential tool. This is true especially for researchers who explore variations over a complex surface or within a volume of space. Large sets of numbers, in and of themselves, can reveal some useful knowledge. But when a scientist sees the data—with help from colors, shading, vectors, and other visual aids—crucial insights often emerge much more strikingly.

"This grant enables us to put together a state-of-the-art visualization facility that wouldn't otherwise be possible," said project director Jane Wilhelms, associate professor of computer science and an expert in computer graphics.

Support boosts UCSC's Arboretum

UCSC's arboretum, home to some of the world's finest collections of plants from the Southern Hemisphere and California, has been the recipient of several major gifts and grants this year. The support is helping the Arboretum sustain its activities at a time when state funding sources are dwindling.

The David and Lucile Packard Foundation of Los Altos has granted \$309,757. During the three-year grant period, Arboretum staff will work with the Packard Foundation's Organizational Effectiveness Program to devise plans for the Arboretum's long-term financial self-sufficiency.

In another expression of support, Santa Fe resident and long-

time Arboretum supporter Elspeth Bobbs has pledged \$500,000 to establish an endowment that will help support the Arboretum's general operating expenses. The gift was made to honor Ray Collett, who stepped down in December from his administrative role as Arboretum director.

Under terms of the \$500,000 pledge, the campus and community have been "challenged" to match the gift.

Another gift to the Arboretum, made by Santa Cruz resident Barbara Shields in late December, has taken the campus halfway toward that matching goal. A lifelong gardening enthusiast and highly recognized watercolorist, Shields has established a charitable trust with a gift of \$250,000.

"This generous support will provide a tremendous boost to the Arboretum," noted Chancellor M.R.C. Greenwood.

One of the Arboretum's many specimens of *Leucospermum*



don kenny

Innovative marijuana study seeks answers

The federal government has funded an innovative in-depth study of marijuana use that is designed to answer fundamental questions about the drug, including whether it leads to the use of "harder" drugs, what its long-term effects are, and whether users become dependent on the drug.

Craig Reinerman, a sociology professor at UCSC and an expert on drug policy, will oversee the project, which is part of a three-nation comparative study. The U.S. component will target San Francisco, where the names of 4,000 residents will be drawn at random from U.S. Census data and then surveyed by employees of UC Berkeley's Survey Research Center. Respondents who have used marijuana more than 25 times in their life will be asked to participate in a detailed follow-up survey. Identical surveys will be administered in Amsterdam and Bremen, Germany. Reinerman and his Dutch and German counterparts will convene at the University of Amsterdam to conduct the cross-national data analysis.

The National Institute on Drug Abuse, under the auspices of the National Institutes of Health, has provided the initial funding for the three-year, \$780,000 U.S. study, which will greatly expand knowledge about the use and impact of marijuana, said Reinerman.

\$15 million approved for fisheries lab

UCSC's vision of a leading center for coastal marine research in Santa Cruz surged forward in November, just as a threatening El Niño served to remind residents of the fragility and mystery of our oceans.

The U.S. Congress, in one of its last acts before adjourning for the year, voted to allocate \$15.2 million to move a National Marine Fisheries Service (NMFS) laboratory from its aging facility in Tiburon, north of San Francisco, to a new building next to UCSC's Long Marine Lab. Scientists at the fisheries lab study fish that live close to the seafloor along the California coast, as well as the environmental and human-caused factors that affect their populations.

The funding will pay for plans and construction of a new building near the recently opened Oiled Wildlife Veterinary Care and Research Center, operated jointly by the state Department of Fish and Game and UCSC's Institute of Marine Sciences. Construction could begin as early as next summer, with completion by late 1999 or early 2000.

The new project adds to a veritable tsunami of activity at Long Marine Lab and its environs. Already under way is construction of UCSC's \$5.3 million Marine Discovery Center, which will triple the lab's capacity to educate schoolchildren and the general public. The Santa Cruz Predatory Bird Research Group, housed at Long Marine Lab, will build a \$250,000 Oiled Seabird Facility next to the state's Oiled Wildlife Center to focus on the care and monitoring of oiled birds.

Indeed, years of behind-the-scenes efforts at UCSC and in Washington, D.C., are now paying off. "I am excited that we finally have the funding needed to move the NMFS Tiburon laboratory to Santa Cruz," said U.S. Congressman Sam Farr (D-Carmel).

"The NMFS laboratory will benefit from a new partnership with Long Marine Lab and collaborative efforts with UCSC and the Oiled Wildlife Center."

Helping students prepare for college

An ambitious partnership between the East Side Union High School District and UCSC will dramatically improve college participation rates of students from East San Jose.

"Our goal is to provide a full host of academic support and outreach services to economically disadvantaged students in one of the most racially diverse districts in California," said Francisco Hernandez, vice chancellor for student affairs at UCSC. "Research shows that these types of early academic outreach efforts can make all the difference. A lot of these kids have the potential to be the first in their families to attend college. It's our job to help make them aware of their educational options and to help them make decisions that will keep those options open for them."

The program will focus on improving the academic preparation of students in the district and increasing the number of students who enroll at UC campuses. To that end, UCSC faculty and staff are teaming up with district personnel to build programs that will help

students prepare for college, meet college admissions requirements, apply, and enroll.

Services being offered to each of the 10 high schools in the district include:

- ▶ Faculty-to-faculty support in which English and math faculty from UCSC meet with their East Side Union counterparts to exchange ideas.
- ▶ Intensive tutoring for students.
- ▶ Creation of Parent Advisory Boards to facilitate parent involvement throughout the partnership.
- ▶ Information and counseling services for students during the college application period, and biweekly site visits in the fall.

In the spring, three schools will also host an intensive seven-week academic enrichment program known as "Saturday College" that emphasizes math and English instruction.

In addition, UCSC is tailoring programs and services to meet the individual needs of schools as identified by principals and school administrators. Some of those services include scholarship-search training for career counselors, analysis of standardized test results, access to UC libraries and public events, and university field trips.

Satellite tag monitors bald eagle's migration

Along the wild rivers of Alaska and British Columbia, immature bald eagles forage for dead salmon and learn to hunt for live ones in the late summer and fall. These eagles fly north on fast migrations from their birthplaces in California and elsewhere, stunning first journeys from the nest guided by thousands of years of instinct.

At least, that's what the wildlife biologists have thought. Now, an information-age eagle has made that picture more believable.

Scientists from UCSC's Santa Cruz Predatory Bird Research Group have tracked, for the first

time, a juvenile bald eagle's remarkable coming-of-age quest for food and independence. The eagle wears a tiny backpack fitted with a lightweight satellite transmitter that beeps every 10 days. Signals from the satellite, sent via e-mail to SCPBRG researchers, show that the bird



flew some 900 miles in August from its nest in northern California to central British Columbia. The journey took less than three weeks.

Two subsequent signals reveal that the bird is staying at the Dean River, apparently having found a rich source of food. Biologists think other young eagles venture even further north, into northern British Columbia and southeastern Alaska's spectacular fjords.

In memoriam

Eduardo Carrillo, a founding member of Oakes College and professor of art, died in July; he was 60. Professor Carrillo had a long and respected career in art education and was an accomplished muralist.

Before coming to UCSC in 1972, he was an instructor with UC San Diego Extension, CSU Northridge, and CSU Sacramento.

Having received his B.A. and M.A. from UCLA, Carrillo founded the Center for Regional Arts in La Paz, Mexico, in 1969. He served as the center's director for two years.

At UCSC, Professor Carrillo was a fellow of both Oakes and Porter Colleges. His record of campus service includes work on many committees and a term as chair of the Art Board (1986-91).

Professor Carrillo also taught drawing, pottery, ceramics, crafts, and art history, and worked in set design and video. He had a strong interest in rock art and made frequent trips to Baja California to study and gain inspiration from cave paintings.

A nationally recognized Chicano artist, Professor Carrillo exhibited his art in solo and group shows throughout the U.S. He leaves behind a body of work in many media, reflecting common themes of Chicano history, culture, art, and religion.

Fred Farr, attorney, environmentalist, former state senator, and UC Santa Cruz Foundation Board trustee, died in June in Monterey; he was 86.

He was born in Oakland and received undergraduate and law degrees from UC Berkeley. After World War II, he settled in Carmel with his wife and three children. Farr was elected to the state senate in 1955, the first Democrat in 43 years to repre-

sent the rural Central Coast. He held that seat until 1966.

While in the state senate, Farr focused his legislative efforts on environmental protection and planning.

Farr joined the Foundation Board as a trustee in 1983 and served on the board and as a tireless champion of UCSC until his death. He had held the board position of parliamentarian since 1995. His particular interests at UCSC included marine sciences, regional development, and international relations, and he generously supported the Educational Enrichment Fund and the Karl S. Pister Leadership Opportunity Awards Program.

Ruth Frary, the first campus physician and director of University Health Services, died in June at age 83. A native of South Dakota, Dr. Frary earned her undergraduate degree at the University of South Dakota and went on to study medicine at Tufts Medical School in Boston.

Shortly after UCSC opened in 1965, Dr. Frary accepted the position of university health officer, a position which developed along with the campus over the years. In addition to her roles

as administrator and physician, Dr. Frary was also a fellow and lecturer at College Five (now

Porter College). She taught a popular course in human sexuality in the early '70s.

By the time she retired in 1980, Dr. Frary had completed her oversight of the Cowell Student Health Center; a patio at the health center is named in her honor.



don harris



ucsc photo services, 1971



ucsc photo services, 1971

Today's UCSC Students

WHO THEY ARE, WHAT THEY'RE STUDYING, WHAT THEY WANT FROM COLLEGE AND LIFE

Numbers offer just one view of UCSC's current student body. Certainly, there are more enrolled than ever—10,638 this past fall. **the Net**

More importantly, individual distinction continues to characterize the students who choose UC Santa Cruz. Among this year's new students,

pollution credits for example, are 48 Regents Scholars, high

school graduates whose academic excellence qualified them for the University of California's most prestigious scholarship. But statistics can't tell the best part of the story. Like their predecessors, today's UC Santa Cruz students are passionate, energetic, and—above all—eager to use their UCSC education to make a difference in the world.

Beginning on page 8, we profile 10 **gamma rays** current students who are preparing to do just that.

photography by r.r. jones

undergraduates majoring in the social sciences **36%**

34% *undergraduates from southern California*

226 *undergraduates who studied abroad during 1996–97*

59% *current students who are women* **ribonucleic acid**

acceptance rate of UCSC students into graduate and professional programs **93%**

undergraduates majoring in the arts **13%**

reforestation *students receiving some form of financial aid* **65%**

undergraduates majoring in the humanities **19%**

900 *re-entry undergraduates age 25 or over*

45% *students who live on campus* **Delacroix**

6 *NCAA Division III intercollegiate sports teams*

undergraduates majoring in the natural sciences and engineering **31%**

Thomas Dundon

Junior, politics

On his way home from classes each day, Thomas Dundon dodges donkey carts, careening buses, and even bicyclists balancing tall stacks of bread on their heads. It's not your average commute, but Dundon isn't your everyday student.

A participant in UCSC's Education Abroad Program, he is conducting his studies this year in Cairo, Egypt. The adventure is only the latest in a string of diverse experiences that have defined Dundon's three years at UCSC.

Not only is he earning a bachelor's degree in politics, Dundon expects to add a second major in classics. In addition to his heavy course load, the high-octane student has found time to volunteer for the United Farm Workers and the International Association of Machinists, act in UCSC theater productions, sing with several UCSC ensembles, and serve as a rape prevention counselor.

"I made a conscious choice to get a broad education and become involved with a range of student groups," says Dundon, a junior who holds a prestigious Regents Scholarship. "There are a phenomenal variety of people and programs on campus that will lead you to places you never knew existed. These opportunities aren't written into any B.A. program, so it takes a little more energy to find them.



But the rewards are worth it."

One of his most inspiring experiences at UCSC has been the Stevenson College core course—a yearlong class on world culture and social heritage. "That course gave me a launching pad to get interested in many other things," he says.

For example, Dundon recently took on the unlikely role of research assistant for biology professor Lincoln Taiz. Accomplished in Latin and Spanish, Dundon translated Medieval Latin texts by Avicenna, a 10th-century

Persian scholar, to support Taiz's research on the history of plant biology.

In Cairo, Dundon is learning Arabic and studying the economics of underdevelopment in the Third World. "I want to bring something back for my studies at UCSC. I'm interested in seeing how my ideas change after being in a new school in a different country."

As his expedition to the Middle East demonstrates, Dundon embraces every new opportunity to learn, believing that each experience broadens

his understanding of the world. "People talk about the university as an ivory tower, but I don't think that's true," he says. "If you follow your interests and keep your mind open, the university offers many opportunities to take an active role in the real world."

—Barbara McKenna

Changhua Sun Rich

Ph.D. candidate, economics



For Changhua Sun Rich, a doctoral candidate in economics, finding solutions to the global warming crisis is a challenge with both personal and professional meaning.

A native of China, Rich has witnessed the severe environmental degradation that has accompanied China's recent economic resurgence. Outdated coal-burning power plants are creating acid rain that is damaging lakes, rivers, forests—even buildings and bicycles. And the problem goes far beyond China's

borders, contributing significantly to global climate change.

Rich's research has placed her at the forefront of efforts to develop economic incentives that will encourage countries to work together to reduce their sulfur dioxide and carbon dioxide emissions—by-products of industrialization that cause acid rain and global warming. In her dissertation, Rich proposes a system of tradeable pollution permits that provides incentives for Japan and China to reduce their emissions cooperatively.

As was evident at the recent

summit on global warming in Kyoto, getting countries to collaborate on these issues challenges the limits of diplomacy and international cooperation.

"Industrialized countries are saying 'We must act now to clean up carbon pollution.' But developing countries feel no obligation to participate in the cleanup, saying 'You made this mess. You clean it up,'" says Rich.

Under Rich's system, industrialized countries get credits for providing financial and technical assistance to developing nations

that are trying to reduce their emissions. Rich's proposal capitalizes on the unfortunate fact that China's acid rain is affecting Japan—providing an additional impetus for cooperation.

Rich's research has given her unprecedented access to China's top scholars, many of whom represent China in negotiations on global warming, and she recently had a paper accepted by the *American Economic Review*, the field's leading academic journal. Coauthor Daniel Friedman, an economics professor, says it was the fastest acceptance he'd ever seen, "with nothing but praise from referee and editor."

Rich's success is even more impressive considering she came to the United States in 1987 at the age of 32 with only a fourth-grade education. Although economic booms have clearly fueled global warming, she is excited about harnessing the power of economics to help save the environment.

"We have only one earth, one atmosphere, and all peoples are one," says Rich. "Countries can work together to enhance their common interests."

—Jennifer McNulty

Zoë Tobier

Freshman, film/literature

Many college students spend years sampling dishes from the academic smorgasbord, searching for a few special subjects that are especially satisfying. Just 18 years of age, Zoë Tobier is already feasting from a buffet of scholarly interests.

"The idea of studying to become an elementary or high school teacher appeals to me," she says. "Or I might enroll in law school some day and pursue the legal profession. Then again, I can see myself becoming a psychoanalyst—or even a filmmaker."

Laughing, she finally ponders the possibility of combining a couple of interests: "Maybe I'm destined to become a filmmaker who specializes in psychological thrillers."

For now, this freshman from New York City has declared her intention to pursue a double major in literature and film. The decision reveals much about Tobier's light and serious sides. "I enjoy reading and watching movies a lot," she says. "But I'm also very interested in critical thinking. Declaring early will let me enroll in some very challenging upper-division courses right away."

Tobier has never shied away from learning. She is one of 48 new Regents Scholars on campus, students whose academic achievement in high school qualified them for the



University of California's most prestigious scholarship.

She competed for admission to her high school, an experimental school for academically talented students run by the City University of New York's Hunter College. Even before graduating from Hunter High, she dabbled in cinema, receiving a credit for preproduction work on the 1997 film *All Over Me*.

The film tells the story of a young woman who begins to understand who she is—and how important it is to be that person without apology. In

many ways, Tobier resembles its main character.

When it came time to apply for college admission, for example, she followed her heart, not her friends, "most of whom applied to Brown or Vassar." Tobier narrowed her college choices to three: UC Berkeley, Evergreen College, and UC Santa Cruz—"West Coast schools where I could get a great education." Accepted at all three campuses, Tobier opted for Santa Cruz.

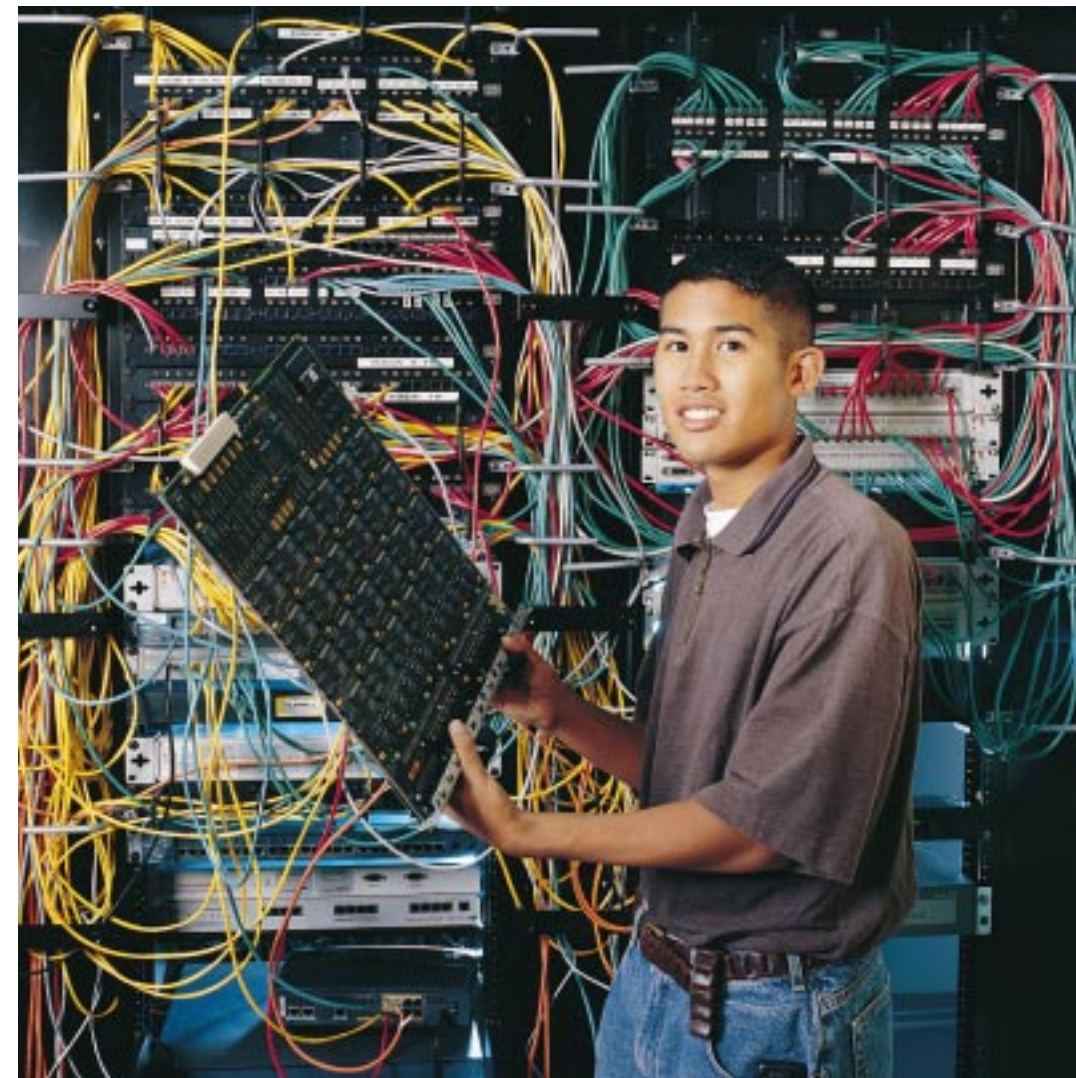
Once on campus, she employed the same independence in making one of her first important decisions as a UCSC student: In the fall quarter, the first in which grades were offered in every UCSC course, Tobier opted to receive narrative evaluations only.

—Jim Burns

"I can understand why people want grades, but I decided grades are not what motivates me personally. I want to learn to write well, to explore ways to convey ideas to others," she says. "For me, real satisfaction comes from the interaction with others and the exchange of ideas."

Patrick Lapid

Sophomore, computer engineering/sociology



Information zips around the globe today with the greatest of ease. Indeed, thinking about the interconnectedness of our world can be a bit "mind-boggling," in the words of sophomore Patrick Lapid. But it's not daunting enough to deter Lapid from wanting to plunge his hands into the Internet's innards to find out how it all works.

Lapid is part of the fearless new generation of students who have known computers all their lives. "I wasn't like a mini-Bill Gates or anything," Lapid says

modestly of his childhood. Nevertheless, his aptitude for math and science and his drive to use the Internet for societal good have brought him to UCSC as a budding computer engineer at the new Jack Baskin School of Engineering.

Lapid grew up in working-class Vallejo, northeast of San Francisco, the son of parents who immigrated from the Philippines in 1970. Many students of color attended his crowded high school, but the best resources went mainly to honors students. "There was

potential for many of my classmates to go to UC," Lapid says. "They just needed someone to motivate them."

Through the Filipino Student Association (FSA), Lapid and his friends try to do just that. They bus high school students to UCSC to give them a taste of college life. FSA members also contact Filipino students who have been admitted, just as Lapid was called two years ago. That helped nudge him toward UCSC over the other four UC campuses that sought him, including Berkeley and UCLA.

Lapid likes UCSC's strength in liberal arts—he's also majoring in sociology, with an emphasis on racism and classism. He finds time for Lambda Phi Epsilon, a national Asian American interest fraternity, and for tutoring in computer science and math. Last year he danced with Pagkakaisa, a Filipino troupe.

With these talents and a stellar academic record to boot, it's easy to see why Joel Ferguson, chairman of the Computer Engineering Department, says Lapid will have his choice of labs to join as an undergraduate researcher. He hasn't yet picked a faculty mentor, but Lapid plans to focus on networks: optics, routers, switches, and the like—the hidden guts of the burgeoning Internet.

On one level, Lapid sees himself "tinkering with hardware" to improve the networks of tomorrow. But clearly his motivation cuts deeper than that. Advanced communication tools, he believes, offer great promise to level the playing field. In his view, the wired world may grant what the world at large does not: equal access to information, via a medium where prejudices and misconceptions don't exist.

—Robert Irion

Justin Balas

Senior, American literature

Designated a nonscholarship campus in intercollegiate sports, UC Santa Cruz attracts athletes to its NCAA teams who excel at more than sports. "Athletes here have to perform in the classroom like any other student," says Justin Balas, a member of UCSC's nationally ranked tennis team.

Balas, who expects to graduate this spring, wouldn't have it any other way. "What I've learned at UCSC as a student-athlete will make a huge difference in the person that I become."

An American literature major, Balas is learning balance—and not just the kind that produces well-timed ground strokes on the tennis court. While carrying a full load of courses, he has emerged as one of the top players on a UCSC team with a glorious tradition: national championships in 1989, 1995, and 1996.

Most students at UCSC have plenty of demands on their time, juggling classes, labs, and homework. As a student-athlete, Balas must also shoehorn in four hours of practice each weekday and tournaments on weekends.

To help him succeed as both student and player, Balas relies on a small black notebook, a personal journal that contains not only the smallest details of his life, but his largest dreams as well.



Turning to a particularly well-worn page, Balas recites his top two off-court goals: excelling in the classroom and graduating on time. A separate page lists his tennis goals, which begin with the dream he shares with his teammates: to bring a fourth national championship back to UCSC this spring.

A Boston native, Balas began his collegiate career at the University of Massachusetts, the beneficiary of a four-year tennis scholarship. Unfulfilled by the caliber of the tennis there, Balas relinquished his

scholarship after his sophomore year and began looking at other schools.

"A coach of mine back east suggested that I take a look at Bob Hansen's program at UCSC," he says. Balas liked what he saw: UC-quality scholastics to prepare him for a career in law or teaching and a grade-A tennis program.

Working with Coach Hansen has made a believer of Balas. His tennis has never been better, and he'll graduate this spring fully prepared—academically and organizationally—for the fast-

paced world that awaits him.

"There are not too many programs you can walk into where the expectation is a national championship," Balas says. "I like it that way. The success I'm experiencing in tennis here is showing up in my schoolwork. And it's made a big difference in how I think about what I can accomplish as a person."

—Jim Burns

Miguel Morales

Ph.D. candidate, physics



When we gaze at the night sky, we see sparkles of visible light. But stars and galaxies also unleash radio waves, x-rays, and other radiation toward earth. Ignoring that steady rain would be like hearing just one octave within nature's symphony of sounds.

Astronomers capture those special waves with some rather odd telescopes, including one in New Mexico called Milagro. It's a football-field-sized reservoir, shielded by a light-tight cover

and chock full of water and detectors. This device catches gamma rays, the most powerful bursts of energy in the cosmos.

It's fitting that Miguel Morales, a physics graduate student at UCSC, works on Milagro. Morales has always loved "wonder science," the big questions about the universe that Carl Sagan used to pose.

"Many areas of physics are pretty well mined," Morales said. "But with Milagro, we're at such high energies that we don't know what we might find. That's an interesting place to be."

Morales earned his B.S. at Swarthmore College and then taught science for three years at a private high school in Milwaukee. One of his course themes was, "What is matter made of?" Today, he asks a very different question: "What are some of the wildest things matter can do?"

Gamma rays give Morales some clues. They crash into earth's atmosphere, triggering showers of other particles that cascade to the ground. In Milagro's dark waters, the particles spark tiny flashes that

Morales and his coworkers can detect with sensitive light tubes (pictured). By analyzing the flashes, the team tries to trace where the gamma rays came from—the remains of a supernova, for instance, or a black hole gulping a stellar neighbor.

Milagro intercepts less interesting cosmic particles as well, thousands of them every second. These also spawn flashes, but they differ in subtle ways. Morales is working on smart computer software that zeroes in on genuine gamma rays. He models his approach on a biological network of simple neurons, almost like the brain of an insect. Over time, the network should "learn" to spot all gamma-ray flashes in their many guises.

"I'm trying to design something that behaves like the early visual processing system of an animal," Morales said.

"It boils down to recognizing objects. That's the first question any developing brain has to deal with."

The project reflects the creativity fostered at the Santa Cruz Institute for Particle Physics (SCIPP), a research unit at UCSC. "I would not thrive in a graduate student factory," Morales said. "At SCIPP, the professors listen to our ideas, even the crazy ones. It makes learning much more entertaining."

—Robert Irion

Gabriella de la Rosa

Senior, art history

Art history student Gabriella de la Rosa had the time of her life last summer. Working as an intern for the Art Institute of Chicago, de la Rosa was treated to an insider's view of the world she hopes to join one day as a professional.

During the internship, de la Rosa experienced the thrill of handling the original artwork of such artists as Rembrandt, Matisse, Picasso, and Delacroix. She was also responsible for conducting extensive research for a catalog on French decorative painting that will accompany an exhibition the Art Institute will mount three years from now.

"That was probably the high point of my whole undergraduate experience," says de la Rosa. "I learned about things I always took for granted before. I had no idea it can take up to five years to pull together some exhibits. You see a painting on the wall and never think about what it took to get it there and what happens to it when it comes down."

Even as a student at her Los Angeles high school, de la Rosa was interested in art history. When the time came to select a university, she chose UCSC because of its uniquely interdisciplinary program. "What I love about art history is that it brings together all these interests I have in art, history, and cultural studies. UCSC's program is



very cutting edge in that way."

Never short on initiative, de la Rosa decided in her freshman year to add intensive work in French to her other studies. In the spring quarter of that year she went to Nîmes, France, as part of the Language Program's study abroad program. In her sophomore year, she lived in Cowell College's Maison Francophone, where residents converse exclusively in French.

De la Rosa speaks with lingering amazement about her experience learning French at UCSC. "I acquired a language

in one year. The teachers in the Language Program are so dedicated and inspiring."

Along with her hefty academic load, de la Rosa shoulders her financial responsibilities. She is funding most of her education through student loans and work study, tutoring fellow students in writing and French. She was able to participate in the Art Institute internship because of grants she received this past year from the Humanities Division and the Art History Department.

"For every debt I incur,

another door opens," says de la Rosa, whose academic choices reflect a keen mix of pragmatism and adventurousness. As she prepares for graduate school and a career in teaching or curating, the resourceful de la Rosa is likely to find many more doors opening along her path.

—Barbara McKenna

Felix Cooper

Senior, sociology/film



Everybody knows Felix Cooper. At least, that's how it seems as he crosses the Porter College quad and is greeted by virtually everyone who passes by.

For Cooper, who grew up in Compton—the central Los Angeles community that has come to embody popular notions of "the hood"—arriving at UCSC as a junior transfer from an inner-city community college gave him a case of culture shock.

"Until college, I'd never

really been out of L.A.," he says. "I saw my first deer on campus."

UCSC has opened Cooper's eyes to many new worlds. A movie buff who's majoring in film and sociology, Cooper now enjoys independent films as much as the "popcorn movies" he grew up on. And he has discovered a passion for political activism that he never knew he had.

Sociology classes have given him an opportunity to explore issues of race and class—"things that were going on in my personal life," says Cooper. And

documenting the lives and experiences of students of color at UCSC.

Cooper now feels that he is part of several communities: Porter College, UCSC, and Compton. "This is my last year of college, and I want to really enjoy it," he says. "Next year I'll probably go back to L.A. That's where I grew up, and it's where I want to work."

Although still captivated by film and awed by the power of the medium, Cooper is planning to apply to law school after taking a year off. He volunteered last summer at the Compton Legal Aid Society to get a feel for the profession, and he liked what he saw.

"I thought about going into law about four years ago, but so many people go into law these days that it seemed like a clichéd thing to do," he recalls. "But I wanted something with a little more substance, and less than 5 percent of lawyers are black, so maybe it's not such a clichéd after all."

—Jennifer McNulty

Erika Fay

Senior, environmental studies/community studies

Graduating senior Erika Fay jokes that she's a "walking advertisement" for UCSC. "I love it," says Fay, a double major in environmental studies and community studies.

One feature in particular stands out: "The professors are really available to you," says Fay, a Davis native. "I've always felt I could go up to any teacher after class and ask whatever I needed. I have friends at Berkeley who never talk to their professors."

Fay's double major offered her both theoretical and analytical grounding, as well as real-world application. "I've spent enough time in the classroom, but a good chunk of time outside of it, too," she says.

The highlight of Fay's undergraduate years was a six-month field-study project in Costa Rica, where she worked with elementary school students in 13 villages on a major reforestation project.

Fay describes the experience as "invaluable." The goal was to plant as many as 3,000 trees per village to reverse the erosion damage caused by massive clear-cutting that began in the 1950s. "I was teaching in Spanish, and by the end, I was being mistaken for a native," says Fay. "That was awesome. That was the highest compliment."

Fay grew attached to the family she lived with and plans to visit them over spring break.



"The mother was pregnant, and they said if the baby is a girl, they'll name her Erika," says Fay. "It was really hard to leave."

The field study, sponsored by the Community Studies Department, was not without its bumps, however. Fay credits program coordinator Mike Rotkin with helping her get through some rough moments.

"He gave us his home number and said to call anytime up until midnight," says Fay, who took him up on the offer more than once. "He was always there. He really pushes students

to reach their full potential."

Like many overseas volunteers, Fay says she feels like she benefitted as much from the experience as those she was in Costa Rica to help. She came home with a clear vision of her desire to pursue a career in environmental education and now plans to earn her teaching credential.

The practical experience also helped her land a part-time job—and another field-study opportunity—this year as a Life Lab teacher at a local elementary school, where she uses the

school garden as a "living laboratory" to give children hands-on experience with science.

"Teaching kids is so rewarding," says Fay. "They're so into what we're doing, and they really like learning-by-doing."

So, clearly, does Fay.
—Jennifer McNulty

Lynn Lee

Senior, chemistry



Lynn Lee is uncovering clues to one of science's most vexing riddles: How did life on earth begin some 3.5 billion years ago? In the process, the UCSC senior has discovered a personal passion for the world of basic research.

A chemistry major working under the guidance of researcher Anastassia Kanavarioti, Lee painstakingly mixes an assortment of metals, ions, and organic molecules—analyzing the resultant products over time. Her goal: to replicate portions of the

chemical soup that may have given rise to earth's first life-forms.

The lab work is helping scientists understand how certain molecules might have merged to form ribonucleic acid (RNA), the chemical chains that many scientists regard as nature's earliest tool for passing along genetic information.

Lee's first brush with research came during her sophomore year. Taking a class in organic chemistry, she discovered that undergraduates at UCSC can become valued collaborators in

the lab. Since then, Lee has worked shoulder-to-shoulder with Kanavarioti. "Every day I'm drawing from what I've learned in the classroom," she says.

In one and a half years in the lab, Lee has had no "Eureka!" moment: In basic research, she has learned, such breakthroughs are rare. Lee has, however, identified several factors that affect the formation of RNA chains, and she has synthesized a new RNA molecule.

Bolstered by her undergraduate experience, Lee plans to earn

a Ph.D. in biophysics—then embark on a career in research. "Research is difficult, frustrating, and time-consuming, but that's where the challenge lies," she says. "If the answers were trivial, why bother?"

Lee isn't inclined to shy away from arduous work. As an undergraduate, she spends 10 to 12 hours a week in Kanavarioti's lab during the academic year; over summer breaks, she's worked there full-time.

She also finds the time to regularly summarize her research results in quarterly reports. These summations hold the promise of becoming the foundation for a research article published in coauthorship with Kanavarioti—a rare accomplishment for an undergraduate.

Lee won't have to wait to earn public recognition, however. Last year, she was asked to present her research findings at the American Chemical Society's Undergraduate Research Symposium, held at UCSC, and at a NASA/Ames symposium at Moffett Field.

"It gave me a sense of achievement," Lee says. "Being able to present my results after spending a full year in the lab was very rewarding."

—Francine Tyler

Windows on the Universe

Lick Observatory specialists quietly build some of the world's finest astronomical research tools.

30 years ago, astronomy was a simpler science. Basic instruments, often built by lone researchers, captured light from stars and galaxies. Cameras recorded the glory of the heavens. The romantic notion of an astronomer perched at a telescope in a chilly dome was still quite real . . .



Supervisor Erich Horn of the UCO/Lick instrument lab is dwarfed by an extraordinary work in progress: DEIMOS, a six-ton spectrograph for the Keck Observatory. UCSC astronomers will use DEIMOS to study 15,000 distant galaxies in detail. Mechanician Jeff Lewis (in back) stands before a simulator that tests the spectrograph's components.

Times have changed.

Telescopes are far bigger, and today's complex instruments can take years and millions of dollars to build. Gone are photographs and darkrooms, replaced by electronic detectors and banks of computers. And, astronomers observe the skies from warm control rooms or even their own offices.

Pioneering this transformation is a band of engineers and technicians at UCSC, ensconced within nondescript warehouses behind the campus's power plant. This setting befits the modest nature of the staff at the UC Observatories/Lick Observatory Laboratories, birthplace of the next

generation of tools to study the universe.

"Today, it requires a team of experts to build an instrument," said astronomer Joseph Miller, director of UCO/Lick Observatory. "We have that team here. Almost any astronomical question we can ask—that it's conceivable to build an instrument to address—they can do it."

Most visitors are stunned to find world-class astronomy labs amid UCSC's redwoods. Yet to step into the UCO/Lick shops, as they are known, is to enter an arena of precision engineering, machining, optics, and electronics.

The long road to a finished instrument begins with a vision from one of UCSC's leading astronomers. Engineers work with the

faculty to draw up detailed plans. Then, teams of specialists work on the guts of the device. Machinists create the metal skeleton and moving parts, usually from scratch; opticians grind the mirrors and lenses, often jaw-dropping in their size and complexity; and electronics technicians devise efficient ribbons of wiring.

Equally vital are millions of lines of computer code, written by UCO/Lick software whizzes. These programs run the instruments and, in some cases, allow them to diagnose their own problems.

At the heart of these efforts are craftspeople of the highest caliber, many of whom have worked at UCO/Lick for decades. "All of our technicians know how their parts fit into the overall instrument," said Erich Horn, instrument lab supervisor. "They take pride in their work and in the scientific results."

Such work has kept venerable Lick Observatory at the forefront of the field since its founding near San Jose in 1888. In a recent example, UCSC alumnus Geoffrey Marcy, now at San Francisco State University, used Lick's 120-inch Shane Telescope and its ultra-sensitive Hamilton Spectrograph to detect tiny wobbles in nearby stars—evidence of the back-and-forth gravitational tugs of planets outside our solar system. Another key instrument, the Kast Double Spectrograph, lets scientists examine faint galaxies through the increasingly light-polluted skies above San Jose.

A brighter spotlight now shines on UCO/Lick technicians for their work on instruments for the twin W. M. Keck Telescopes in Hawaii. The Kecks' segmented mirrors, 400 inches across, now rank as the world's largest. New instruments for the telescopes help astronomers analyze nearly every precious bit of light from objects billions of light-years away, so distant that we see them as they were when the universe was a small fraction of its current age.

One such device, the \$3.6 million High-Resolution Echelle Spectrograph (HIRES),

arguably is the finest of its kind. HIRES, the size of an average living room, splits light into a rainbow and spreads it with unprecedented detail across an electronic detector. It has revealed the temperature of the early universe, probed the nature of distant quasars, and sampled the ingredients of ancient stars in our Milky Way.

"I couldn't imagine trying to build HIRES without the entire team at Lick," said UCSC astronomer Steven Vogt, its designer. "Every astronomer I've talked to thinks HIRES is totally awesome. That's a tribute to the top-notch work at the shops."

Also notable are the "secondary mirrors" for the Keck Telescopes—surfaces that reflect light from the main mirrors into the instruments. To mesh with the Kecks' compact design, UCO/Lick optician David Hilyard had to polish the 57-inch secondary mirrors to odd shapes with exquisite accuracy.

Under way are two more spectrographs, to be installed at Keck II later this year: the Echellette Spectrograph and Imager (ESI) and the Deep Extragalactic Imaging Multi-Object Spectrograph (DEIMOS). The latter instrument will displace HIRES as the most ambitious spectrograph ever built. Designed by UCSC astronomers Sandra Faber and Garth Illingworth, DEIMOS will scrutinize 15,000 faint galaxies to make a comprehensive map of the distant universe.

Chief engineer David Cowley, who manages UCO/Lick's technical facilities, said DEIMOS will require \$5 million and 60,000 staff-hours to complete. "This is the leading edge of technology, for the most exciting telescope on earth," Cowley said. "This is as good as it gets."

To Joseph Miller, DEIMOS exem-

plifies why the Kecks were built—and why the UCO/Lick shops excel.

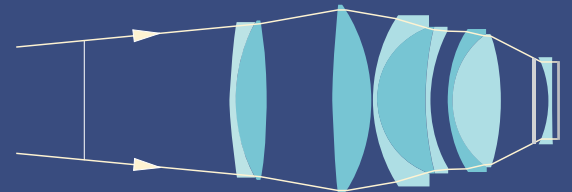
"This will be the deepest, most extensive survey of galaxies, and it promises to teach us much about how the universe has evolved," he said. "It's like Darwin's voyage: We're exploring the uncharted territories of the cosmos."

—Robert Irion

More information about the UCO/Lick Observatory Laboratories is available on the Web at www.ucolick.org/~loen



Optician David Hilyard used polishing wizardry to create these lenses for a camera in DEIMOS, including the world's largest polished crystal of calcium fluoride (rear, on table). Nine lenses, smoothed to within millionths of an inch, will focus light from galaxies onto a detector. The diagram below shows how light rays bend through the lenses.



Kids around the University

We want kids to know what college is like, to know that study and hard work are important, and to know that learning at college is fun and exciting.

—from the introduction to Kids Around the University

Chances are, the kids at Aromas School didn't know their book would change lives. But chances are that it will.

For two years, third and fourth graders at Aromas School in Monterey County researched and wrote a bilingual book about college life at UC Santa Cruz. Called *Kids Around the University*, the book quickly won the hearts of UCSC administrators, who published the book and are distributing it to fourth graders around the state this year.

For UCSC, the book represents a powerful outreach tool that will expose young schoolchildren to the academic and social value of attending college—and it gives kids hands-on information about how to

prepare for college. Because the book is written in English and Spanish, it helps bridge a cultural gap, too.

"These kids really captured the essence of university life," said UCSC vice chancellor for student affairs Francisco Hernandez, who was profiled in the book. "They were able to distill the activities and value of a university, and they conveyed it in their own powerful words."

Indeed, the young authors' impressions of college life are refreshingly candid and on the mark—and their clear, simple prose appeals to children and adults alike:

In college you have to study hard. That means no goofing around.

Students sleep in the dormitories. . . . You can keep your room messy or neat.

Lots of people who work at universities and colleges are not professors. Their job is to keep students safe, healthy and learning.

To get into a university you have to take certain classes in high school.

If no one in your family went to a college or university before you, that does not mean that you should not go to one.

The book's content is based

largely on dozens of interviews the youngsters conducted with students, faculty, and staff at UCSC and Cabrillo College in Aptos. The kids took on the project after being unable to find a book about colleges and universities that was appropriate for their grade level.

"This book fills an enormous void. Teachers and educational professionals say there's nothing like it," said UCSC associate vice chancellor for enrollment management and admissions director J. Michael Thompson, an ardent supporter of the project. "For some students, this book will

light a candle they didn't know even existed. It reawakened the wonder in me about what the university is, and it caused me to step back and see the university through the eyes of a child."

For Aromas School teachers Katy Stonebloom and Linda McCue, who shepherded the project from conception through distribution, knowing that the colorful, 32-page book is receiving broad distribution is overwhelming. "The project has been successful beyond our wildest expectations," said

Stonebloom, who graduated from UCSC in 1976. McCue also attended UCSC, graduating in 1984. Another alumna, Renée Flower, collaborated on the design of the book with UCSC publications manager Jim MacKenzie.

Many praise Stonebloom and McCue for making the book a reality, but the teachers give all the credit to their team of nearly 60 students who worked cooperatively—many of them on week-ends and after school—to see the book through to publication.

The students, whose reading levels ranged from first to tenth grade, benefited academically from the project, too, scoring higher on writing tests than their peers who were not involved with the school's bilingual publishing program.

Carrol Moran, coordinator of the UCSC-based Monterey Bay Educational Consortium, teamed up with Stonebloom and McCue to produce a curriculum guide designed to inspire teachers around the state to help their students explore

their own local UC campus, private college, community college, or state university.

Moran, an early champion of the book project, said the publication will be an "incredible tool for thousands of children."

"This book has the very real potential to make a difference in their lives," she said. "That's why we felt so strongly about encouraging students to replicate the project in their own communities. Expanding the



The editorial staff of *Kids Around the University* and teacher Katy Stonebloom

The young writers show Chancellor Greenwood their creation.



Laura Liddy



Interviewing Francisco Hernandez

elementary school curriculum to include a unit on higher education will open a lot of doors for young people."

In an era of expanding partnerships between universities and K-12 schools, this project enjoys widespread support.

"It has rekindled a spirit of hopefulness and discovery in all of us," said Thompson.

—Jennifer McNulty

If All the World's a Stage...

Like Hamlet, who declared “the play’s the thing,” most theatergoers focus on the plot and the actors who deliver it. And yet, it is the handiwork of the stage technicians—an alchemy of sets, lights, sounds, and costumes—that makes the world of the play come alive.

At UCSC, students learn the secrets of this theatrical magic in the Theater Arts Department’s production program. Like those in the major who focus on performance, production students must complete a rigorous academic curriculum and a minimum of 150 hours of hands-on experience.

Among their teachers are the seven members of the theater arts production staff, headed by technical director Joe Weiss and assistant technical director Paul House. Through their guidance, graduates in recent years have had notable success in the film and theater industry—landing jobs on and off Broadway, in film and commercial production in Los Angeles, and in theater companies across the country.

The hands-on emphasis is one of the program’s many strengths, and the opportunities for production students to gain firsthand experience are numerous. Working in the production shops, some 60 students each quarter design and build sets, costumes, and props; record and mix sound; design and rig lights; and hammer out budgets and production schedules for shows.

“In the four years I’ve worked here there have been roughly 200 shows—all but one of which were student designed,” says UCSC costume shop manager Naomi Arnst. “As students, experiencing that level of responsibility is invaluable. That’s how they really learn the ropes, and it’s what makes them stand out when they start looking for jobs.”

UCSC’s program, which focuses solely on undergraduate studies, offers another advantage: “Our students here don’t have to compete with graduate students for opportunities,” Weiss explains. “Here, undergrad-

uates are able to assume a level of responsibility practically unheard of in most other programs.”

“If I’d gone to a university with a large graduate program, I would have spent my entire four years as an assistant to a graduate student—if I was lucky,” confirms Jennifer Boggs, who graduated in 1992. Instead, during her years at UCSC, Boggs was able to try her hand at such high-level positions as designer and stage manager. Since graduating, she has worked in film and commercial production, and she tours Europe each summer with a performing arts troupe.

Rik Converse, who received a degree in

Graduates have had notable success in the film and theater industry—landing jobs on and off Broadway, in film and commercial production in Los Angeles, and in theater companies across the country.

literature here in 1984, is head of Media Slugs, an organization for UCSC alumni working in the entertainment industry. His roster holds the names of nearly 160 people in the Los Angeles area, the majority of whom, he says, are flourishing in the highly competitive field of technical production.

A recent addition to Converse’s list is Stacie London, who graduated in 1994. London was working on a video shoot for rap singer Queen Latifah last summer when she learned she’d received her stage technician’s union card—an accomplishment practically unheard of for someone so recently out of school.

“If it weren’t for Joe and Paul and that

program, I just can’t imagine what my life would be like,” she says. “They have this incredible gift for teaching.” Among recent projects, London has worked as assistant stage manager for the touring company of the Broadway show *Kiss of the Spiderwoman*, as a dresser on the Broadway production of *Damn Yankees*, and as production designer in Los Angeles for the film *Ill-Gotten Gains*.

Another distinction of the production program is its affiliation with a professional theater company. Shakespeare Santa Cruz (SSC), a campus-based summer festival, and the Theater Arts Department share facilities, equipment, and people. Several theater arts faculty and staff are also longstanding leaders of the festival. “This is educational theater at its best,” says assistant technical director House. “We can continue to work in the professional arena each summer and bring that back to the students each fall.”

SSC and the Theater Arts Department also collaborate on the Summer Internship Program, through which UCSC students may participate in the festival, and with Shakespeare To Go, an academic-year course in which UCSC students perform a condensed version of a Shakespeare play in local schools.

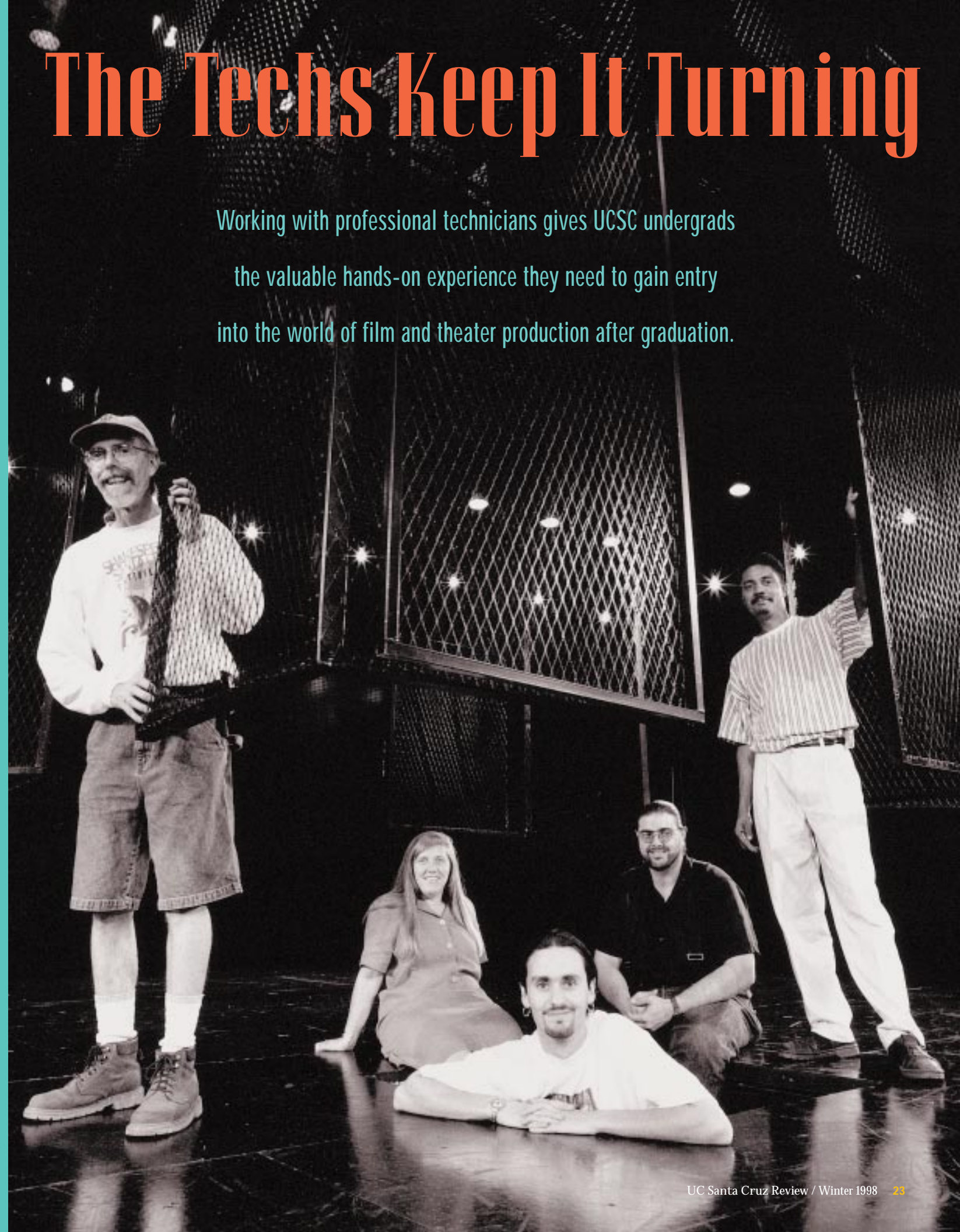
The unique structure that makes the production program so successful is a reflection of those who have created it. While they are working the alchemy of illusion onstage, they manage the rigors of teaching offstage. Los Angeles film producer Danny Kaufman, who has worked with a number of UCSC students recently, is a believer. “I can tell you that I’m impressed by all of the Santa Cruz graduates I’ve worked with. Whatever it is you’re doing up there, you’re doing it right.”

—Barbara McKenna

Making the scene: (l-r) Paul House, Naomi Arnst, Nick Farwell, Joe Weiss, and Don Williams are five of the theater arts production staff who help students learn the ropes of technical theater.

The Techs Keep It Turning

Working with professional technicians gives UCSC undergrads the valuable hands-on experience they need to gain entry into the world of film and theater production after graduation.



Alumni Association Councilors, 1997-98

Cowell

Stephen Klein, *President-Elect*
Michael Twombly

Stevenson

Diana Reece, *Vice President for Programs*
Heather Urquhart

Crown

Michael Brown
Linda Wilshusen, *Vice President for Finance*

Merrill

Alan Acosta
Ricky Bluthenthal, *Past President*

Porter

Daren Lewis
Linda Ziskin

Kresge

Pamela Baer
Douglas Foster

Oakes

G. Chris Brown, *Vice President for Membership*
Renée Martinez

College Eight

Joanne Foxxe
Robert Weiner, *Vice President for Administration*

At Large

Mark Adams
Carol Bradshaw
Steven Jung, *President*
John Laird
Eric Thomas
Kathryn Tobisch

Ex Officio

Carolyn Christopherson, *Executive Director*
Michael Cowan, *Past Chair, Academic Senate*
Sara Dozier, *Chair, Student Union Assembly*
M.R.C. Greenwood, *Chancellor*
Nathan Sanders, *President, Graduate Student Association*

Banana Slug Spring Fair campus open house, April 18



all photos: greg pho

At Banana Slug Spring Fair 1997 (clockwise from upper left): Alumni panelists discuss online publishing during the Alumni Journalism Conference; regional alumni volunteers (l-r) Amy Spanne, Najia Rosales, Lillian Locke, and Lindsey Stevens are among the crowd at the all-class reunion lunch; Merrill '77 classmates (l-r) Don Lane, Spencer Sherman, Janice Fuhrman, and Fred Davidson reminisce during their 20-year reunion; and class of '77 roommates (l-r) Teri Schweitzer, Cathy Dworsky Warner, and Sharon Turnoy are reunited.

Alumni, prospective and current students and their families, and all friends of the campus are invited to visit UCSC for Banana Slug Spring Fair on Saturday, April 18. This year's campus open house features reunions, tours, lectures, artistic performances, and receptions at each college. Alumni highlights are listed below. For more information, contact University Advancement at (800) 933-SLUG or locally at (408) 459-2501. Web site for the event: admissions.ucsc.edu/bssf

Here are some alumni highlights of the upcoming Banana Slug Spring Fair:

► The class of '78 will celebrate its 20-year reunion with an evening of conversation, dining, and reminiscence.

► The all-class reunion will recognize the classes of '68, '73, '78, '83, '88, and '93 at this anchor event for all alumni. Everyone is welcome!

► Marge Frantz, American studies and women's studies lecturer emerita, will give a special lecture for alumni. Frantz, who is this year's Distinguished Teaching Award recipient, will also be honored by Kresge College with alumni panel discussions on

political activism and education—the foci of Frantz's career. Alumni interested in participating may call Kresge provost Paul Skenazy at (408) 459-4792.

► College Eight will celebrate its 25th anniversary with an evening of music, food, and friends.

► The Economics Department will host a reunion for economics alumni and their families and current and former faculty and staff. Activities include dinner at a local restaurant. Call (408) 459-2028 for more information.

► A reading of poetry by Douglas McClellan, art professor emeritus, will be part of a Cowell College celebration, which will include an exhibit of paintings and text by

American studies professor John Dizikes.

► Every college will host a reception. In addition, Cowell will hold its annual evening waltz; Porter will host a celebration of Asian culture; and Merrill will offer a dance performance by Los Mexicas and students will paint the moat.

► Acting troupe Culture Clash will present *Radio Mambo* in the Performing Arts Mainstage Theater. Call (408) 459-2159 for ticket information.

► The Santa Cruz Hillel, UCSC's Jewish resource center, will host a brunch on Sunday, April 19, for UCSC alumni. Call (408) 426-3332 for more information.

Association board sets future direction

“Open to all alumni, the UCSC Alumni Association is a membership organization whose programs foster a lifelong connection with the university. The purpose of the Association is to promote, influence, and support the educational, cultural, and social life of the University of California, Santa Cruz, and to provide a means by which alumni may both serve the university, its colleges, and its students, and help guide the university in the future.” So reads the new mission statement of the UCSC Alumni Association.

It was recently updated by the association's governing board at a strategic planning retreat.

Over 7,000 dues-paying members strong, the Alumni Association is governed by a 24-person volunteer board of directors composed of alumni who live throughout the state. Last summer they got together to set the future direction for the association. As a result of the one-day strategic planning retreat, the following association goals were announced:

- Offer programs and opportunities that encourage alumni to maintain a lifelong connection with UCSC;
- Support activities that attract students to UCSC, enrich the student experience, and help students succeed at UCSC and after;
- Actively support the university's effort to encourage diversity;
- Participate in the development and implementation of policies affecting UCSC;
- Develop programs to engage faculty and students in an ongoing discussion of the UCSC academic mission, heritage, and values.

Alumni interested in supporting these efforts and joining the association may call the Alumni Office for more information at (800) 933-SLUG or (408) 459-2530.



Tom Dadant (center), Merrill '81, alumnus donor to the UCSC Library's BUY-A-BOOK campaign, with University Librarian Allan Dyson (right) and favorite teacher Noel King (left). Dadant designated his gift in honor of Professor Emeritus King; the funds were used to purchase two new encyclopedias in King's fields of religious and African studies. The volumes are inscribed with a bookplate bearing King's name.

Alumni BUY-A-BOOK donors honor faculty

Each spring, UCSC supporters are asked to help the University Library by contributing to the annual BUY-A-BOOK campaign. Donors provide a generous gift of \$50 to \$1,000; in return, bibliographers choose critically needed volumes for the library collection and inscribe them with a note on the bookplate and in the library online catalog.

For the past few years, BUY-A-BOOK has added a remarkable \$30,000 to \$40,000 in annual funding to the overextended library materials budget. The campaign has been successful for several reasons: It is headed by founding chancellor Dean McHenry, whose name is synonymous with the Santa Cruz tradition of independent inquiry; and the donors are approached by an outstanding corps of student callers, whose enthusiasm, knowledge, and dedication are irresistible.

This year, the student callers came up with a creative new strategy that has proved to be very appealing to UCSC's increasing group of alumni donors. The students ask each alum they call to BUY-A-BOOK in honor of a UCSC faculty member who made an important difference in his or

her education, vocation, and life. The response from alumni has been astounding. The student callers have been moved and inspired by the memories of a class, lecture, conversation, or counseling session that continues to resonate decades later.

In fact, this year's callers were so impressed with their predecessors' BUY-A-BOOK stories that they decided to direct the 1997 senior class gift to this purpose as well.

Many of the honored faculty taught during the intense and exciting formative years of the Santa Cruz campus, but the inspiration of younger scholars has been recognized as well.

This year the library received a record number of BUY-A-BOOK gifts in memory of the late Page and Eloise Smith, mostly from Cowell College alumni who remembered their integrity and warmth. Overall this year nearly 30 UCSC faculty members received BUY-A-BOOK tributes from appreciative alumni.

If you would like to honor a beloved teacher with books, send your contribution, marked BUY-A-BOOK and made payable to the UCSC Foundation, to the Carriage House, UCSC, 1156 High Street, Santa Cruz, CA 95064.

The University of California
Alumni Associations present the

ALUMNI CAREER CONFERENCE & JOB FAIR

Job Fair with exhibitors in every career field

Workshops with top career professionals

SATURDAY, MARCH 28, 1998

Conference: 9 A.M. to 2:30 P.M.

Job Fair: 2:30 P.M. to 5:30 P.M.

Marriott City Center Hotel, Oakland

cost (includes lunch):

\$60 Alumni Association members

\$75 Nonmembers

Add \$15 for registration after March 13

For more information,
call the UCSC Alumni Association:
(800) 933-slug

ALUMNI NOTES

Cowell College

'70 **Martin KIMELDORF** is an educator and a writer; he is the author of *Creating Portfolios for Success in School, Work, and Life* (Free Spirit Publishing, 1994) and *Portfolio Power: The New Way to Showcase Your Job Skills and Experience* (Peterson, 1997).

'71 **Kathryn BOYD** has been a children's librarian at the San Jose Public Library for the past 22 years.

'73 **Susan ALFORD** has been working in assembly and shipping at DiverseyLever for 16 years.

'74 **Anne-Marie BOUCHÉ** has been appointed assistant professor in the Department of Art and Archeology at Princeton University.

'76 **Sasha (Alexander) MATSON's** recording *Range of Light*, chamber settings for the texts of John Muir, has been released recently by New Albion Records.

'80 **Laura HERMAN** lives in Willits, Calif., with her husband, Mike, and their daughters, Mollie and Naomi, in a house they designed and built themselves. She teaches at the middle school in Laytonville, and she is a math mentor during the 1997-98 school year. Laura enjoys wildflower hikes and writing fiction in her free time.

'81 **Charles SELF** is taking a one-year position as associate professor of religion and history at George Fox University, while continuing as senior pastor at Keizer Faith Center, an Assemblies of God-affiliated church in Keizer, Ore.

'83 **Marco MARTINEZ-Galarce**, who recently graduated from the Graduate Film Division at Columbia University with an M.F.A. in film directing, is moving back to the Monterey Bay Area to begin his career in filmmaking.

'87 Following three years of intensive research and analysis, **Stephen SCHWARTZ's** first book, *Atomic Audit: The Costs and Consequences of U.S. Nuclear Weapons Since 1940*, will be published by the Brookings Institution Press in 1998. Stephen lives in Arlington, Va., with his wife and two cats.

'88 **Diana EICHER** received her M.F.A. in printmaking from the

University of Hawaii and is working as an artist and studio coordinator at the University of Minnesota.

'90 **Susan SKOUSEN** is completing a master's degree in human development and working with Head Start as a special education placement coordinator.

'92 **Gary HEIMANN** recently completed an M.A. in literature at Claremont Graduate University and will be pursuing a teaching credential at CSU Hayward.

'95 **Dara PAPO** received a master's in social welfare from UC Berkeley in spring 1997.

Stevenson College

'68 **Ray STEINER** is a visiting professor of philosophy at Old Dominion University for the 1997-98 school year.

'71 **Brant CORTRIGHT** is director of the Integral Counseling Psychology Program at the California Institute of Integral Studies and a licensed psychologist with a private practice in San Francisco. He is the author of *Psychotherapy and Spirit: Theory and Practice in Transpersonal Psychotherapy* (SUNY Press, 1997).

'74 **John CHAPMAN** teaches English at Tokay High School in Lodi, Calif., and is developing an American studies curriculum for high school students.

'75 **John JANGWONG** is a clinical case manager in the Department of Psychiatry at UC San Francisco/San Francisco General Hospital. **Stanley JUNGLEIB** is chairman and chief executive officer of Seer Systems, which he founded in 1993; his company produces software synthesis for the personal computer. **Davia NELSON** is co-producer and codirector of *Making Tutti*, a public television documentary on the making of a doo-wop gospel musical, *Full Moon Over Tutti*, performed by 600 San Francisco schoolchildren participating in the San Francisco Arts Education Project.

'78 **Linda GRAY Schmale** is teaching art/pottery at a charter school; her husband, **Michael SCHMALE** (Stevenson '76), sang a solo in the

Littleton Chorale spring 1997 concert; both are enjoying raising their five children, ages 4 to 15.

'83 **Sue BERG Lim** is a senior chemist at East Bay Municipal Utilities District in Oakland. When she's not dealing with new state and federal water regulations, she still finds time for travel and volunteer work.

'84 **Anne HEDGES** writes, "While I may not have a Ph.D. or lots of awards, I consider myself successful and happy. My most enduring memories of UCSC are those that honored the unconventional, and that is how best to describe my success."

'85 **Robert MAFFIONE** is a senior scientist at Sequoia Scientific on Mercer Island, Wash.

'88 **Gretchen KINDERSKI** has been married 12 years and has an eight-year-old son; she's working part-time as a self-employed accountant and also as a school volunteer. She writes that "she is loving life in Oregon and missing Santa Cruz."

'89 **Stephanie FISHKIN Dark** has completed a Ph.D. in social psychology at the University of Southern California and is now a senior research analyst for Kaiser Permanente. Her husband, **John DARK** (Stevenson '89), is a store manager for AirTouch Cellular. After receiving an M.A. in communication from UC Santa Barbara, **Jay ESKENAZI** earned a master's in psychology and a Ph.D. in clinical psychology from the California School of Professional Psychology; currently he is working as a psychologist with the Special Offender Center in Monroe, Wash.

'90 **Matt ARENCHILD** is living near Washington, D.C., with his wife and three children; he has a Ph.D. in economics and is working as a consultant on energy issues. **Maria McLAUGHLIN** is living in San Francisco and has worked for six years as a legal investigator on death penalty appeals; in fall 1997 she entered Boalt Law School to pursue her interest in prison reform and alternative sentencing. **Tchira SELIGMAN** is re-entering the world of academia by starting an M.S.W. program at NYU.

'91 **Jeanne LEONE-Sterwerf** received her first film credit for Disney's *Hercules*; she married attorney John Sterwerf in June 1997.

'92 **Barbara NICHOLS** completed her master's in public administration at Syracuse University in 1997, and she is working at the Environmental Protection Agency in Washington, D.C. **Linette THORNTON** graduated from Eastern Virginia Medical School with an M.D.; she is now serving a pediatric internship at Portsmouth Naval Hospital. **Allyson YANCEY** received an M.A. in clinical psychology from John F. Kennedy University in June 1997.

'93 **Kristen FOSTER Lenz** received an M.A. in education from UCSC in 1997, and she is now teaching first grade; her son, Nicholas, was born in December 1996. **John SCHWEITZER** is working in freelance film, video, and photography assisting in the San Francisco Bay Area.

'96 **Susan Tarka NELSON** is working as an ethnobotanist for Sherman Pharmaceuticals in South San Francisco.

Crown College

'76 **Lise SYKES Wilkinson's** youngest son is beginning kindergarten, and she's venturing beyond the role of mom at home.

'77 **Marc BOND** is working for British Gas International and living with his family in Milan, Italy; previously he was in Rome.

'78 **Joanne KERBAVAZ**, a California State Parks biologist, is one of a number of UCSC alums working with **Dave VAN CLEVE** (Merrill '72) at Anza-Borrego State Park.

'82 **James McNELIS** took a position as assistant professor of English at Kutztown University in Pennsylvania in fall 1997. **Rick (Raymond) SPAULDING** received his M.S. in wildlife and fisheries from the University of Arizona, and he is currently employed by Ogden Environmental in Santa Barbara.

'85 After working 10 years for the city of Lafayette, Calif., **Chris**

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Paul Rabwin in the postproduction studio working on a forthcoming episode of *The X-Files*

Mechanic of the Macabre

Alumnus Paul Rabwin (B.A. English literature, Cowell '70) creates dark magic behind the scenes of *The X-Files* and *Millennium*.

Spellbinding plots, engaging characters, and the public's ever-increasing fascination with the supernatural have combined to make *The X-Files* one of the most popular dramas on television.

Each week, FBI agents Fox Mulder and Dana Scully investigate bizarre occurrences in which voodoo, alien abductions, or government conspiracies often play a part.

But there's more to *X-Files* than meets the eye—or ear. From almost subliminal music to ear-catching special effects, the sound created for the show sets the mood for each episode, pulling the story lines forward and carrying viewers into

increasingly bleaker landscapes.

One of six *X-Files* producers, Paul Rabwin helps create this mood-setting sound. In the course of a day, Rabwin might help make the shrill whine of a high-tech dentist drill, the tension-building thunder for an Antarctic ice scene, or the sharp sound of a "gimlet" being unsheathed.

One of *The X-Files* signature props, a gimlet is a weapon that looks like an ice pick and opens like a switchblade knife. The gimlet took its distinctive noise straight from Rabwin.

Trying to create an appropriately chilling auditory effect for the weapon, Rabwin's Burbank-based crew compiled 17 sounds and played them in combinations over a monitor for executive producer Chris Carter and others in Century City. Hours passed while the crew experimented, but no combination

three Golden Globe Awards including one for Best Television Series (drama).

For the 1997-98 season, Rabwin added a new dark delicacy to his already full plate: He took on similar duties as co-producer of Carter's latest series, *Millennium*. In its second season, the show features an ex-police officer who uses paranormal powers to see inside the minds of murderers and serial killers.

Rabwin started working in the entertainment business while still a student at UC Santa Cruz. As a junior at Cowell in 1969, he took a summer internship with a television studio, Quinn Martin Productions. When he graduated the following year, he signed on at Quinn Martin as an assistant to the editorial coordinator in the postproduction department.

In addition to organizing scripts, typing invoices, and delivering film from one part of the studio to another, Rabwin filmed "inserts"—close-ups of matchbooks, photographs, and other props—and edited trailers for upcoming episodes.

By the time he left Quinn Martin in 1977 to join Paramount Television, Rabwin had worked on numerous hit television shows, including *Cannon*, *The FBI*, and *Streets of San Francisco*, and was supervising the postproduction of four television series at a time.

More than a dozen television jobs later, Rabwin's industry connections led him to *The X-Files*. For the show's first two seasons, Rabwin had to explain to people what *The X-Files* was about. "It's a cross between *The Twilight Zone*, *The FBI*, and *The Night Stalker*," he'd tell people.

Now that *X-Files* is a Top 10 hit, boasting 20 million viewers in 60 countries worldwide, Rabwin finds that the show speaks for itself.

—Francine Tyler

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CANDELL is now a planner for his native city of Oakland. "I can't beat the 12-minute bicycle commute; sometimes I even beat the cars," he writes. **Susan MILLER** is an ecologist with the Shoshone National Forest in Cody, Wyo.; she and her partner recently gave birth to a son. '88 **Daniel OROS** is a graduate research assistant in organic geochemistry working for his Ph.D. at Oregon State University. '89 After six years of living in San Francisco, **Stefan KLAKOVICH** has moved to the country and is enjoying his vegetable garden immensely; he's teaching science at Windsor High School. '90 **Annie BOYD Lademan** married **Chris LADEMAN** (Crown '90). '91 Ensign **Nancy STEWART** has been designated a naval aviator while serving with Training Squadron 86 at the Naval Air Station in Pensacola, Fla.; she was presented with the coveted "Wings of Gold," marking the culmination of months of flight training. '92 **Robert GROPP** received his Ph.D. from the University of Oklahoma in 1997, and he is currently a presidential management intern in the Office of Disability in the Social Security Administration. **Katharina TORRI** just graduated from the National College of Naturopathic Medicine in Portland, Ore., and she will continue to live in Portland and work as a naturopathic physician while pursuing training to become a midwife. '93 **Shelly QUENEAU** graduated with an M.S. in genetic counseling from the School of Public Health at UC Berkeley, and she is now working at the Sacred Heart Medical Center in Eugene, Ore.

Merrill College

'70 In addition to his ongoing technology-transfer responsibilities at the U.S. Department of Energy, **Mark CLARK** is arranging electricity service for the national labs. '71 **Georgiann McFADDEN Lyga** has retired after 14 years with the R. C. Diocese of Sacramento; she will continue as volunteer coordinator of the Mayan Diocesan Exchange Project, which markets artisan products for seven women's

cooperatives in southern Mexico and Guatemala. She also runs Solidarity House, a bed and breakfast and weekend urban retreat, as a benefit for former Guatemalan refugees who have returned to their homeland. '73 **Terry TEAYS** is project scientist for education at the (Hubble) Space Telescope Science Institute. '77 **Olga NAJERA-Ramirez**, an associate professor of anthropology at UCSC, won a Silver Apple Award at the 1997 National Educational Film and Video Festival for her video, titled *La Charreada: Rodeo a la Mexicana*. **T. Scott TENNEY** is a lay minister in the Order of Buddhist Contemplatives, with a small meditation group that meets weekly. '78 **John LORONA** is a board member in the Selma (Calif.) Unified School District. '79 **Kanani (Barbara) BURNS** is a museum lecturer, visiting curator, and consultant in Polynesian/Hawaiian anthropological art history, and she is a practitioner of feng shui. **Kay MOHLMAN** is teaching in the Sociology Department of the National University of Singapore, where she lives with her husband and two cats. **Robert TANAKA** lives and works in San Francisco. He is principal of Tanaka Design Group Landscape Architects and is the proud father of a two-and-a-half-year-old daughter. A second child was due in September. '89 **Stacey McKEEVER** received a master's in library and information science from the Graduate School of Education and Information Studies at UCLA, and she interned at Quarterdeck Corporation during the summer. '90 **Carolyn CHERRY** is looking forward to another year in the Minneapolis Public Schools, and she "gives her congrats to the Developmental Psychology and Psychology Department for the fabulous article in the last issue of the *UC Santa Cruz Review*—it's so nice to see good, hard work acknowledged." '91 **Deborah CARTER** completed her Ph.D. in education from the University of Michigan and is an assistant professor of education at Indiana University in Bloomington. '92 **Kristine CIOFFI** returned from a three-month stay in

Zimbabwe and entered law school at NYU in fall 1997 to pursue her interest in international law. '95 **Adriano Morales AMAYA** is in his second year of graduate school at CSU Long Beach, studying student development in higher education. **Dan ZIVKOVIC** is a multimedia and Internet software engineer at IBM's Almaden Research Center.

Porter College

'74 **Robert KUBEY**, an associate professor of communication at Rutgers University, has been appointed director of the master's program in communication and information studies. '78 **Robert EVERSZ** has "temporarily escaped the trash heap of history with the publication of his novels *Shooting Elvis* and *Gypsy Hearts* into 10 languages—none of them Czech, the language of the country in which he currently resides." '80 **Margie SULLIVAN** is completing a residency in ob/gyn at Kaiser Hospital in Santa Clara; her husband, **Richard SPEAR** (College Eight '93), is a research chemist working in Silicon Valley. '82 **Alan SCHROEDER**'s book *Minty: A Story of Young Harriet Tubman* was named by *Time* magazine as one of the eight best children's books of 1996. After a decade working in Los Angeles as a medical photographer, **Mark Grayson WILLIAMS** has returned to northern California. While in L.A., he was director of exhibitions and on the board of directors of SITE, a nonprofit artists' organization, and he taught art part-time at an elementary school. '83 **Katy WILDING** is a United Airlines flight attendant. '84 **Campegius (Keimpe) BRONKHORST** writes compilers for Borland and misses College Five. **Jennifer DAVIS-Kay** is the wife of Woody and the mother of Melanie, and she is a full-time editor and freelance writer in Boston. '86 **Michael CARLIN** is pursuing an M.F.A. in creative writing. '87 **Shannon QUINN** has returned to the Bay Area after 10 years in Ireland, the South Pacific, and on the East Coast. '90 **Jose FAJARDO** is a second-

year special day class teacher at MacQuiddy Elementary School in Watsonville, Calif., teaching third- and fourth-grade students. **Candace PINYAN Sabers** received an M.D. from Mayo Medical School and a Ph.D. from Mayo Graduate School and has begun her postgraduate training in internal medicine at the Mayo Graduate School of Medicine. '91 **S. Joshua BETH** completed an alternative teacher credentialing program designed to prepare teachers for work in inner-city schools and will receive a California Professional Clear CLAD multiple subject credential this year. After receiving her M.F.A. in nonfiction writing from Penn State University in May 1997, **Kate MADDEN** is a freelance writer in the San Francisco Bay Area. '93 **Tim McDERMOTT** has opened up Scooter's Record Store in his hometown of Hermosa Beach, Calif. '93 **Christine GEMPERLE** is finishing a master's in fisheries and wildlife at Utah State University; in August 1997 she presented her research at the National American Fisheries Society meeting in Monterey, Calif. '95 **Daniel McMAHON** is in the master's program at the School of Information Management and Systems at UC Berkeley. '97 **Levi LARKEY** is teaching math and coaching volleyball, skiing, and soccer at Wasatch Academy in Mt. Pleasant, Utah.

Kresge College

'81 **Kevin VOLKAN** and **Panda KROLL** (Kresge '82) and their chow, Can Can, appeared in the *New York Times* in conjunction with a column called "Fresh Starts," which takes people with unusual financial-planning requirements and offers them a fiscal makeover by two financial advisers. '82 **Chuck HOLLIS** is vice president of marketing for NetXchange Communications, a provider of Internet telephony infrastructure and applications. '83 **Kevin ERGIL** is director of the Pacific Institute of Oriental Medicine in Manhattan. '89 **Anne GARNER** is living in American Canyon, Calif., with her husband and two children; she completed a multiple subject teaching credential in spring 1997. '91 **Kristen GUZMAN** is a graduate student working on a Ph.D. in

American history at UCLA; the focus of her study is Chicanos in California. **LaDawn HAGLUND** is the coauthor of an article titled "Perinatal Psychosocial Assessment," which will appear in the journal *Clinics in Perinatology* in 1998; she planned to enter the Ph.D. program in sociology at New York University in fall 1997. '92 After five years of deciding he did not want to be a clinical psychologist, **Jonathan BENAK** began the Physician's Assistant Program at Allegheny University in August 1997. **Mark KERLIN** won his second Washington, D.C., Bicycle Messenger Championship and will go to Barcelona for the world messenger championships. **Kelly Anne KOERNER** is currently working in the graduate program in marine biology at the University of Southern California and plans to pursue a degree in business or law. '93 **Christine GEMPERLE** is finishing a master's in fisheries and wildlife at Utah State University; in August 1977 she presented her research at the National American Fisheries Society meeting in Monterey, Calif. '95 **Daniel McMAHON** is in the master's program at the School of Information Management and Systems at UC Berkeley. '96 **Monica WHALEN** is serving in the Peace Corps in Jordan, teaching women their political rights.

Oakes College

'75 **Danny SYLVESTER** is now serving as vice president of the South Berkeley Housing Development Corporation. '78 **Ken STILGEBOUER** is married and has a 13-year-old daughter; he is an advisory wide-area network programmer for IBM Global Services. '85 **Scott ROSEMAN** owns New Leaf Community Markets in Santa Cruz, which has four locations, including the newest store in the restored Bank of America building on Pacific Avenue in downtown Santa Cruz. '86 **Lydia CAMARILLO** is executive director of the Southwest Voter Registration Education Project in San Antonio, Tex., which trains newly elected officials, candidates running for local office, and organizers for leadership roles. **John**

SCHMUCK received an M.F.A. in glass at Rochester Institute of Technology in May 1997 and was accepted for a Fulbright scholarship to study glass at the Australian National University at Canberra in 1998. '90 Since moving to the former Soviet Union in 1990, **Kim PALCHIKOFF** has worked for the Moscow bureaus of NBC, CNN, and the *Los Angeles Times*; she currently is a Moscow-based features stringer for *Newsweek International*. She can be reached by e-mail at *palc@glasnet.ru*. '92 **Sharon ANOLIK** is living in Marin and enjoying her work as a judicial staff attorney for the California Supreme Court. '93 **Cristina YEAGER-Strunk** runs the largest women's shoe department west of the Mississippi for Macy's Department Stores. She married **Michael STRUNK** (Oakes '91) on Valentine's Day in 1995.

College Eight

'74 **Christopher BURGART** retired from his job as a private investigator in 1988, resided in Paris from 1988 to 1991, and has lived in Lahaina, Hawaii, since 1991. '76 **Peter POLLOCK** has been named a Loeb Fellow at the Harvard University Graduate School of Design and a Visiting Fellow at the Lincoln Institute of Land Policy in Cambridge, Mass., for the 1997-98 academic year; he will be on special assignment for the city of Boulder, Colo., where he is director of the community planning division. '77 **Ray SCHOENKE** is the owner of SouthPaw, Inc., a marketing communications firm specializing in medical sales and marketing, including strategic planning, product naming and positioning, and advertising through all media. '82 **Shelley POTICHA**, an urban planner, has been named executive director of the Congress for the New Urbanism in San Francisco, an organization of public- and private-sector leaders and multidisciplinary professionals committed to the restoration of existing urban centers and the reconfiguration of sprawling suburbs into communities through citizen-based participatory planning and design.

'85 **Rosemary RENAUER** received her master's degree in clinical psychology at J.F.K. University in Campbell, Calif., and she holds a M.F.C.C. license. She is also employed by McGraw-Hill/California Test Bureau in Monterey. She adds that she "finally married for the first time at age 41 and has a 12-year-old (feminist) stepdaughter named Monica." **Michael VAN ALTENA** recently changed careers and is now working as a software programmer. '89 Having received a master's in theological studies at Harvard Divinity School, **Albion Moonlight BUTTERS** is now working toward his Ph.D. in religious studies, with a focus on Tibetan Buddhism, at Columbia University. '90 **Kim WADDELL** earned a Ph.D. in biological sciences from the University of South Carolina in 1996 and is now working as a post-doctoral researcher in entomology at the University of Maryland. '92 Since completing a master's in international environmental law in Belgium, **Gabriela SOSA** has worked for the Panamanian Foreign Ministry; she is currently assistant to the undersecretary of state of Panama. She can be reached via e-mail at *asisvic2@pan.gbm.net*. **Da-Thuy NGUYEN Van** received a medical degree from the Ohio University College of Osteopathic Medicine in June 1997 and began an internship at Meridia South Pointe Hospital in Warrensville Heights, Ohio. '94 **Doug KEEHN** is working for a year on the West Bank of Israel/Palestine in a conflict-resolution project among the Palestinian Christian community.

Graduate Studies

'78 **David BEAR** is a professor and the new chair of the Cell Biology and Physiology Department at the University of New Mexico Health Sciences Center. '82 **Lee Anne MARTINEZ**, an assistant professor of biology at the University of Southern Colorado, recently received a Fulbright award to explore the efficacy of composting toilets in Mali, West Africa. '83 After 14 years in the Washington, D.C., area, **Roxanne ANDREWS** has returned to California, where she works for the state of California as director of the

California Hospital Outcomes Project, which is assessing the quality of care in hospitals; she lives in Davis with her husband, **John PIERCE** (Graduate Studies '82), and her six-year-old daughter, Katya. '86 **James HATTERSLEY** (Merrill '85) is director of a Swiss pharmaceutical company based in Chicago; he has a daughter in high school and a son in junior high. '89 **Vincent DIGIROLAMO** received his Ph.D. in history from Princeton University and has taken a position as an assistant professor in the Department of Interdisciplinary Writing at Colgate University in Hamilton, N.Y.; his dissertation was on child street labor in 19th-century America. '90 **Alan RUDY** is an assistant visiting professor, with a teaching and research emphasis in sociology, at Guilford College in Greensboro, N.C. '95 **Scott BRAVMANN**'s book *Queer Fictions of the Past: History, Culture, and Difference* was published in 1997 by Cambridge University Press.

In Memoriam

Sarah Paige BATY (Graduate Studies '90), a visiting assistant professor of political science at the University of Arizona in Tucson, died July 14, 1997. **Margarita CONTIN** (Oakes '93), who had worked as an intern for the *San Jose Mercury News* and had just begun a new job as a reporter for the *Long Beach Press-Telegram*, died February 4, 1997. **Donald MacMINN** (Cowell '94), a graduate student in astronomy and astrophysics at the University of Chicago, was struck and killed by a pickup truck while riding his bike in Geneseo, Ill., on August 30, 1997. The Astronomy and Astrophysics Department at the University of Chicago has established a new student award, the Donn MacMinn Award for Service Beyond the Walls of the University, in memory of MacMinn's outstanding work with disadvantaged schoolchildren in Chicago and as a graduate student tutor. **Daniel SCHAFER** (Oakes '88) died in an accident on January 27, 1997.

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