

UC SANTA CRUZ

WINTER 2001

R E V I E W



Visionaries of the Visual

*Ada Takahashi is one
of the many UCSC
alumni working as
museum and gallery
curators and directors*

Plus: Filling the teacher gap; Measuring mercury contamination

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Chancellor
M.R.C. GREENWOOD

Vice Chancellor, University Relations
RONALD P. SUDUIKO

Associate Vice Chancellor,
Communications
ELIZABETH IRWIN

Editor
JIM BURNS

Art Director/Designer
JIM MACKENZIE

Associate Editors
MARY ANN DEWEY
JEANNE LANCE

Writers
LOUISE DONAHUE
BARBARA MCKENNA
JENNIFER McNULTY
DOREEN SCHACK
TIM STEPHENS
FRANCINE TYLER

Cover photography
R. R. JONES

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

VOICE: 831.459.2501
FAX: 831.459.5795
E-MAIL: jrburns@cats.ucsc.edu
WEB: review.ucsc.edu

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FROM THE CHANCELLOR

By M.R.C. GREENWOOD



DON HARRIS

People from UC Santa Cruz's Education Department are helping to address one of California's most daunting challenges: the preparation of a new generation of K-12 teachers—educators who will be desperately needed in the state's classrooms in the new decade.

IN MY POSITION AS CHANCELLOR, I am fortunate indeed to come in contact with many of the people that make the UC Santa Cruz community so special: our students, whose thirst for knowledge is only exceeded by their commitment to improve society; our faculty and staff, who diligently see to it that our students receive a world-class education at the same time that UCSC produces impressive research; and our alumni, whose years on campus very often foreshadow important postcollegiate careers.

This issue of the *Review* underscores the important contributions of just a few members of the UCSC family, people whose work is making a real difference in our world.

The cover story (page 8) shines the spotlight on a half-dozen of our graduates who hold prominent positions on the national art scene. Through their work as curators and directors, these half-dozen alumni are making the decisions that determine which works are displayed in many of this country's leading galleries and museums.

UCSC people are also leading the way in helping to address one of California's most daunting challenges: the preparation of a new generation of K-12 teachers—educators who will be desperately needed in the state's classrooms in the new decade. Two years ago, Governor Gray Davis asked the University of California to do more in the area of teacher preparation. As you will see in this issue of the *Review* (page 14), UCSC's Education Department has responded to the

challenge, launching a 15-month program that provides our students with both a teaching credential and master's degree in education.

Our faculty and students are achieving distinction in a variety of other ways. Research that is revealing important information about mercury contamination in San Francisco Bay waters is one example of that excellence (page 18). In fieldwork involving faculty from UCSC's newly formed Department of Environmental Toxicology, UCSC graduates, and current students, the extent of contamination from the New Almaden and New Idria mine sites is coming to light. Their efforts could prevent additional contamination of San Francisco Bay Area waters.

In closing, I would like to call your attention to another achievement: UCSC has been selected to participate in one of three new California Institutes for Science and Innovation. Established this past December by the governor (page 4), the Institute for Bioengineering, Biotechnology and Quantitative Biomedical Research, otherwise known as "QB3," promises to lead the next revolution in biomedical research. It is obviously too soon to report on QB3 findings in this issue of the *Review*, but stay tuned.

M.R.C. GREENWOOD
Chancellor



Building for the future Numerous construction projects are about to commence, already under way, or nearly completed on campus. The major projects, which will result in new housing, classrooms, office, and research space, include the following: the Physical Sciences Building (depicted in an artist's rendering, above), to be completed in fall 2003; the Core West Parking Structure, providing space for approximately 500 vehicles in the Science Hill area; the Interdisciplinary Sciences Building, to be completed this fall; the Center for Adaptive Optics, to be completed this fall; Bay Tree Bookstore and Graduate Student Commons, ready for occupancy this spring; and residence halls for Colleges Nine and Ten, which will provide on-campus housing for 800 students by fall 2002.

The mystery behind the vanishing fur seal

FOR YEARS, anthropologist Diane Gifford-Gonzalez was pestered by nagging questions about some marine mammal bones that were part of UCSC's extensive archaeological archive. Why, she wondered, did the collection contain the remains of so many northern fur seals, a species that today is found primarily off Siberia and the Aleutian Islands in Alaska?

The northern fur seal, one of the smallest of the eared seals, accounts for fewer than 1 percent of all pinniped strandings along the Central Coast today. But the presence of its bones accounted for about one-third of all sea mammals in local archaeological sites.

Gifford-Gonzalez and Paul

Koch, an associate professor of Earth sciences, have teamed up to determine why the distribution of marine mammals around the Monterey Bay Area has undergone such dramatic changes in the past 2,000 years.

Northern fur seals are perhaps best known for their fur, which was prized by hunters in the 1800s.

Long before the coming of the fur trade, however, something made the seals vanish from mainland beaches along the Central Coast. Gifford-Gonzalez and Koch have ruled out the usual suspects: bears, coyotes, and other carnivores.

More likely, they believe, would be human overpredation or climate change—or a combination of the two.

A small-scale pilot study they have conducted into the mystery has attracted support from the National Science Foundation.

With NSF funding, Gifford-Gonzalez and Koch plan to pinpoint the date of the seal's disappearance and fill in details of the environmental record.



Anthropologist Diane Gifford-Gonzalez, left, and geochemist Paul Koch have teamed up to study northern fur seals (below).



UCSC faculty endorses 'narratives' and grades

UCSC'S ACADEMIC SENATE in November reaffirmed its commitment to the campus's long-standing Narrative Evaluation System (NES). In a special session of the senate, faculty rejected a proposal that would have made the writing of "narratives" optional.

The outcome drew a thunderous ovation from the students who were able to squeeze into the lecture hall and from the dozens more who listened to the proceedings via a speaker system set up outside.

"We're doing some things right at UCSC, and part of what we're doing right is the NES," noted professor of linguistics James McCloskey.

The meeting brought to a close 12 months of senate discussion about the manner in which UCSC will assess the performance of future students.

As a result of the pro-NES vote—and a vote on letter grades that was finalized only a month earlier—students who enter UCSC this coming fall will receive letter grades in most of their courses and narratives in all of them.

In a separate vote, senators also overwhelmingly endorsed an NES reform resolution authored by Professors Barbara Rogoff and William Ladusaw that, among other things, asked a senate committee to draft guidelines for the writing of narratives and requested administrative support for software that would ease the workload associated with the NES.

Campus enrollment tops 12,000 students

ENROLLMENT AT UCSC totaled 12,124 in the fall quarter. The growth mirrors what's happening at campuses statewide, as higher education systems gear up to serve an unprecedented number of new students in the state.

In the UC system alone, it is estimated that space will be needed for 63,000 additional academically eligible students by the year 2010.

One scenario under discussion would have UCSC grow to 16,900 by the year 2010.



Talat (seated) and Kamil Hasan

Endowment boosts Indian classical music

JAWAB HAMID ALI KHAN, ruler of the state of Rampur, India, in the early 1900s, was well known for his love and patronage of the arts.

Now, halfway around the world and three generations later, the great-granddaughter of this respected Nawab and her husband are carrying on that tradition, providing funding that will substantially expand the performance and instruction of Indian classical music at UC Santa Cruz.

The couple are Silicon Valley entrepreneurs Talat and Kamil Hasan of Saratoga, California. Their gift of \$350,000 establishes the Kamil and Talat Hasan Endowed Chair in Classical Indian Music, which provides ongoing annual support for UCSC's flourishing programs in Indian arts.

"Indian classical music is a remarkable art form," said Kamil Hasan. "It stands out from popular music because it not only pleases the mind and senses, it goes much deeper. It's important to us to do our part to keep this tradition flourishing."

Extinct rhino behaved like modern hippo

AMONG THE LARGE mammals that roamed prehistoric North America was a type of rhinoceros that seems to have lived in the water, much like a modern hippopotamus. The extinct rhinoceros, known as *Teleoceras*, ranged from Florida to the West Coast from about 17 million years ago until about 4.5 million years ago. Its semi-aquatic lifestyle, first suggested by its body shape, has been disputed by some researchers. But evidence preserved in fossil teeth now indicates that in some areas, at least, *Teleoceras* did spend much of its life in the water.

"Morphologically, *Teleoceras* looked a lot like modern hippos, with large, squat bodies and short legs,



An artist's rendering of the *Teleoceras* habitat in Miocene Nebraska.

and we now have evidence from isotope analysis that they were semi-aquatic like hippos," said Mark Clementz, a graduate student in Earth sciences, who presented his findings at a recent meeting of the Geological Society of America.

Clementz and Paul Koch, an associate professor of Earth sciences, analyzed oxygen isotopes in fossil *Teleoceras* teeth for clues to the animals' habits. Oxygen occurs in nature as three different isotopes. The two heavy isotopes are very rare (together they make up less than 0.5 percent of all

oxygen atoms), but their greater mass has interesting consequences. Evaporation, for example, acts preferentially to remove water molecules containing the common, light isotope of oxygen.

The water left behind, whether in a puddle or in the body of an animal, ends up with a higher proportion of heavy oxygen isotopes.

The *Teleoceras* study grew out of work Koch had done on modern mammals in East Africa comparing different species within the same ecosystem.



Congressman Sam Farr (center) and Norman Mineta, commerce secretary in the Clinton administration and President Bush's transportation secretary-designate, joined Chancellor Greenwood for the dedication in October of the new federal marine research facility next to UCSC's Long Marine Laboratory. In addition to conducting fisheries research, the new National Marine Fisheries Service Santa Cruz Laboratory will house the nation's first National Science Center for Marine Protected Areas. "Our oceans are indispensable lifelines from both environmental and economic perspectives and require first-class research to ensure their health," Mineta said. "This laboratory will provide researchers with the critical tools they need to help shape the future of our oceans."

Grant helps students 'gear up' for college

STUDENTS IN THE city of Watsonville will get a boost on their way to college from UCSC, which has received a \$3.7 million, five-year federal grant to help disadvantaged students prepare for college.

The funding comes from the U.S. Department of Education's GEAR UP program, which stands for Gaining Early Awareness and Readiness for Undergraduate Programs. The mission of GEAR UP is to increase the number of low-income students who are prepared to enter and succeed in postsecondary education.

The Educational Partnership Center at UCSC will administer the grant.

The funding will support programs at Watsonville High School and its feeder middle schools.



David Haussler

UCSC is partner in new science institute

UCSC WILL PLAY a key role in one of three new California Institutes for Science and Innovation established in December by Governor Gray Davis. The Institute for Bioengineering, Biotechnology and Quantitative Biomedical Research (QB3) will be centered at UC San Francisco with major research components at UC Santa Cruz and UC Berkeley. The institute promises to lead the next revolution in biomedical research. It will inte-

grate physical, mathematical, and engineering sciences to create powerful new techniques for attacking biological problems of such enormous complexity that they have simply remained unapproachable—until now. This integration of sciences could open the way for discovery of treatments and cures for some of our most intractable diseases, such as brain disorders, cancer, and diabetes.

One focus of QB3 will be bioinformatics—computing methods to sift through the volumes of data generated by the human genome project and other new developments in biomedical research. The institute's bioinformatics program will be based at UCSC.

"As experimental methods become more sophisticated and the amount of data skyrockets, the role for bioinformatics is dramatically expanding," said David Haussler, UC Presidential Professor of computer science at UCSC and a codirector of the institute. He and his colleagues at UCSC have played a key role in the Human Genome Project, assembling the first publicly available working draft of the human genome sequence.

NASA Ames park is preferred site for Silicon Valley Center

CHANCELLOR GREENWOOD has announced that planning for UCSC's Silicon Valley Center will focus on the proposed NASA Ames Research Park as the preferred site for a permanent location. Further planning studies will lead to a final proposal to the Regents.

Among the criteria for siting the center are visibility, accessibility, opportunity, net cost, and alignment with the teaching, research, and service mission of UCSC.

Ames Research Center is one of ten field centers of NASA. The proposed site is part of a collaborative R&D campus currently being developed by NASA Ames that includes a range of research, education, and museum activities. UCSC's Silicon Valley Center would be included on a parcel within the NASA Research Park, which is located adjacent to the existing campus of the NASA Ames Research Center in Moffett Field.

"NASA's proposed R&D park fulfills the location criteria for our Silicon Valley Center," Greenwood said. "NASA's innovative vision for a research complex that emphasizes synergy among participants is compatible with our campus's goals. Because of our existing research collaborations with NASA Ames and numerous other educational partnerships between UCSC and Silicon

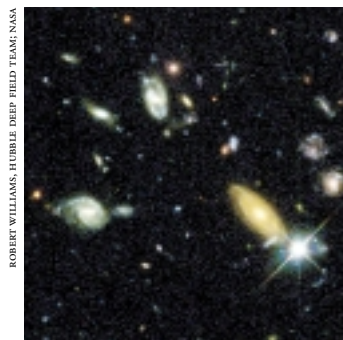
Valley institutions, we already have a strong foundation on which we can develop further academic programs of benefit to the region."

The center is expected to serve as a portal to the UC system, connecting all of the campuses to Silicon Valley, especially in the areas of research. The University of California and NASA share many research areas of interest and strengths, such as biotechnology, nanotechnology, planetary sciences, and astrobiology. In addition, research is expected to be conducted on issues of social justice, education, labor, and economics, among other topics.

It is expected that UCSC will offer classes for both undergraduates and graduates at the Silicon Valley Center. The specific curricular offerings and subjects of research are to be determined through planning by faculty, which now is under way.



The formation of a partnership to address Silicon Valley's critical education and workforce needs was announced this past fall by leaders from UC Santa Cruz, San Jose State University, Foothill-De Anza Community College District, and NASA Ames Research Center. The "collaborative" envisions joint research and education programs among the institutions, to take place at the proposed NASA Research Park. Joining Chancellor Greenwood at a press conference announcing the partnership were Robert Caret (also seated), president of SJSU; Leo Chavez (standing, right), chancellor of the community college district; and NASA Ames Research Center director Henry McDonald.



Many of the distant objects revealed in the Hubble Deep Field, a revolutionary image of deep space taken by the Hubble Space Telescope, are too faint for detailed study with existing telescopes. With CELT, astronomers would be able to probe the faintest smudges of light in the Hubble Deep Field, some of which may show the earliest stages of galaxy formation in the universe.

Astronomers set sights on next telescope

THE DESIRE FOR ever larger telescopes has driven astronomers relentlessly for nearly 400 years. In 1610, Galileo discovered the moons of Jupiter using a telescope with a lens not much more than an inch in diameter. Today, the largest optical telescopes are the twin Keck Telescopes in Hawaii, with 10-meter mirrors that gather the faint light from distant galaxies. But, of course, astronomers still want bigger telescopes, knowing they can yield new insights into the nature and origins of the universe.

The next milestone in telescope size is likely to be one with a primary mirror 30 meters in diameter, which would provide ten times the light-gathering area of each of the Kecks. UC and the California Institute of Technology (Caltech) have teamed up to design and build a 30-meter telescope, dubbed the California Extremely Large Telescope (CELT). The project is still in the early planning stages, but researchers led by

UCSC astronomers are making steady progress on the conceptual design for CELT.

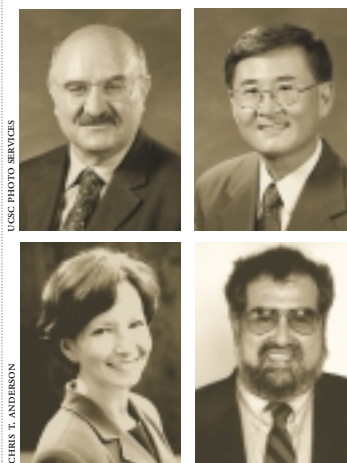
Project leaders hope to build the massive telescope within the next ten to 15 years, said Joseph Miller, director of UC Observatories/Lick Observatory (UCO/Lick). Miller estimated the total cost of the project would be around \$500 million, but it's not clear yet where that money would come from.

Several new faces in campus administration

FOUR NEW DEANS have assumed positions within UCSC's senior administration this academic year.

Wlad Godzich, a department chair at the University of Geneva in Switzerland, is the new dean of the Division of Humanities; Sung-Mo "Steve" Kang, a department chair at the University of Illinois at Urbana-Champaign, the dean of the Jack Baskin School of Engineering; Cathy Sandeen, an assistant dean at UC San Francisco, the dean of University Extension/Summer Session; and Frank Talamantes, of UCSC's Department of Molecular, Cell, and Developmental Biology, has been named vice provost and dean of Graduate Studies.

Clockwise, from upper left: Godzich, Kang, Talamantes, and Sandeen

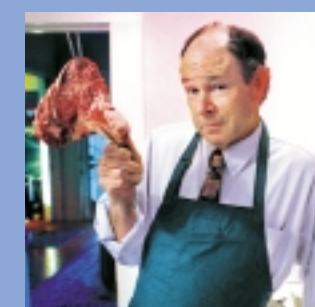


Please pass the caterpillar pie

IMAGINE A POTLUCK buffet featuring fried spiders and rattlesnake. Sound yucky? Welcome to the world of food preferences, where what is considered delicious—and disgusting—is more a matter of culture than most people think.

"People feel very strongly about what they will and won't eat," said sociologist Dane Archer. "Westerners cringe at the thought of some Asian cultures that eat dog meat, because dogs are sacred in our culture. But Hindus feel the same way about cows and are horrified by the 'dead animal' racks in our supermarkets."

Food preferences and taboos are extremely emotional and value-laden, said Archer. People tend to regard their own diet as sensible and the diets of other cultures as bizarre or irrational, all of which makes food a "powerful way to teach about cultural diversity



Dane Archer

and tolerance," he said.

Archer, a professor of sociology at UCSC, has produced a new educational video about food, entitled *A World of Food: Tastes and Taboos in Different Cultures*. The engaging 35-minute video features interviews with people from different cultures and undercuts the dominant Western view that "what we eat is normal and what everybody else eats is strange."

The video describes the prohibitions against certain foods in the major religions of the world and presents a seven-rung food ladder, or "hierarchy of eligible foods," that ranks what is considered edible, delicious, and disgusting in various cultures.

Humanities gets boost in funding for center

THIS PAST OCTOBER, more than 70 faculty, staff, and students gathered at a Porter College courtyard for an inaugural celebration of UCSC's new Institute for Humanities Research (IHR).

The festive mood of the reception turned even more celebratory following surprise announcements of additional funding to the center.

Humanities Dean Wlad Godzich promised to earmark \$60,000 over the next three years to support a distinguished

lecturer series and, in another surprise announcement, Campus Provost and Executive Vice Chancellor John Simpson pledged \$38,000 to the IHR for graduate student support.

The IHR was created in 1999 to support humanities faculty and graduate student research and academic programming. The IHR is also the home of the internationally renowned Center for Cultural Studies, one of the nation's premiere centers of interdisciplinary research. IHR also supports Focused Research Activities in Feminism, Mind and Meaning, and Pre- and Early Modern Studies (PEMS).



Each year, UCSC's Academic Senate honors a number of the campus's most exemplary and inspiring teachers. Thirteen such professors and lecturers were chosen to receive Excellence in Teaching Awards for 1999–2000. The recipients, above, were nominated by students for qualities such as their enthusiasm for teaching, commitment to learning, and the content of their courses.

New map provides detailed views of UCSC

A NEW MAP OF UCSC has been unveiled that illustrates the campus with unprecedented clarity. The new campus map differs from its predecessors in several important ways: It is detailed enough to show all paved pedestrian and bike paths, it shows the topography of the campus, and it has been produced in color.

The map is available from the campus's Bay Tree Bookstore as a poster (\$8.95) or as a folded map (\$2) that includes insets for all of UCSC's off-campus sites (including Long Marine Lab, Lick Observatory, the Monterey Bay Education, Science, and Technology Center, and all UC Santa Cruz Extension locations).

The map was created by cartographer Cherie Northon, who used existing maps, aerial photos, and fieldwork to check for accuracy.

The map was produced under the direction of UCSC's Office of Planning and Analysis. Funding was also provided by a number of other offices: Housing, Transportation and Parking Services, Admissions, Public Information, University Relations, the Division of Social Sciences, and the Arboretum.

New campus map



Economist funds grad student awards

DAVID KAUN, a professor of economics at UCSC, has worked with some very good graduate students over the years. But he was so impressed by two talented teaching assistants that he has given the campus \$50,000 to establish a new annual award that will recognize outstanding teaching by graduate students.

Two graduate student recipients of the new Milam-McGinty-Kaun Award will be named each year: one from the Economics Department and one from another department

in the Division of Social Sciences. Each will receive a \$1,000 award.

The award is named after its first recipients, Garrett Milam and Matt McGinty, who are in UCSC's doctoral program in international economics. Milam and McGinty were TAs last year in Kaun's *Intermediate Microeconomic Theory* course, which had an enrollment of about 120. "These two won-



David Kaun, flanked by Matt McGinty (left) and Garrett Milam

derful young men were phenomenal in every dimension. They were so good, I just wanted to acknowledge that kind of teaching assistance."

Making science shockingly fun

DANIEL GREENHOUSE, a senior physics and math major, thinks learning about science should be fun. He began experimenting with electricity when he was 12 years old, and before long he was building Tesla coils that could generate huge arcs of electricity. This led to special-effects projects for concerts by the Grateful Dead and Phish bands.

More recently, however, Greenhouse has helped a group of UCSC physics faculty and local high school teachers develop a physics demonstration for use in high school science classes.

The demonstration, involving such electrifying sights as a five-foot bolt of electricity striking a person in a metal suit, is part of the educational outreach activities of UCSC's Santa Cruz Institute for Particle Physics (SCIPP). The visual spectacle of the exhibit provides an attention-grabbing context for teaching a range of basic



Daniel Greenhouse demonstrates one of the cool special effects—arcs of electricity breaking out of his fingertips—that can be achieved with a Tesla coil.

concepts about the power of electromagnetic fields.

"I've always been interested in using electronic devices to get people excited about science," Greenhouse said. "I love seeing someone's eyes open wide in wonder."

The demonstration was developed as part of SCIPP's summer research associates

program, which brings high school teachers into the SCIPP labs for hands-on research experience. Teachers from local schools in Santa Cruz and Watsonville were among those involved in the project, along with UCSC physics faculty and staff.

The first public demonstration was held last July at Aptos High School's summer session. Hartmut Sadrozinski, adjunct professor of physics and coordinator of SCIPP's summer research program, said the response has been tremendous. "You could see from the expressions on the students' faces that they were really impressed." He plans

to bring the demonstration to other local high schools as well as to schools in San Jose and San Francisco.

At the heart of the demonstration is a Tesla coil, invented in the 1890s by Nikola Tesla. Tesla's inventions include the alternating-current (AC) power system used to supply electrical power throughout the world.

Manganese exposure and Parkinson's

A NEW STUDY SUGGESTS that too much manganese, an essential element required by the body in tiny amounts but toxic at elevated levels, may contribute to the early development of Parkinson's disease symptoms in susceptible people.

Recent epidemiological studies have suggested an association between Parkinson's disease and elevated exposure to manganese. The new study in animals shows that exposure to low levels of manganese does not directly contribute to the disease, but affects a different part of the brain in a way that exacerbates

the effects of Parkinson's.

UCSC researchers evaluated the effects of low-level exposure to manganese using rats with a condition that mimics pre-Parkinsonism, an early stage of the disease in which no symptoms are apparent. Their findings were published this past fall in the scientific journal *Neurotoxicology and Teratology*.

The study highlights the importance of looking at the effects of toxic substances on sensitive subsets of the population who may be most vulnerable, said Donald Smith, an associate professor of environmental toxicology and a coauthor of the paper.

"We are concerned about how chronic low-level exposures to toxic substances may accel-

erate the emergence of neurodegenerative diseases like Parkinson's," Smith said.

The possibility that people in the early stages of Parkinsonism could be especially sensitive to moderately increased levels of manganese is disturbing, he said. Manganese is ubiquitous in the environment, and its increasing use in industrial processes may cause some people to take in greater amounts from water, food, and airborne sources.

In addition, increased exposure to airborne manganese could result from the use of the manganese compound MMT as a gasoline additive. Currently, none of the major oil refineries are using MMT, but that could change, Smith noted.

Alumni Association names award winners

A PROFESSOR OF women's studies, the national editor of the *New York Times*, and a UCSC staff member have been selected to receive the highest awards bestowed annually by the UCSC Alumni Association.

Bettina Aptheker was given the Distinguished Teaching Award for her more than 20 years of teaching and service; Katherine Roberts, national editor of the *New York Times*, the Alumni Achievement Award, and David Kirk, who has worked hard to expand the university's video and digital media collection, the Outstanding Staff Award.

The Alumni Council, the association's governing body, selected the winners based on nominations from students, faculty, alumni, and staff. The three recipients were honored on campus in early February.

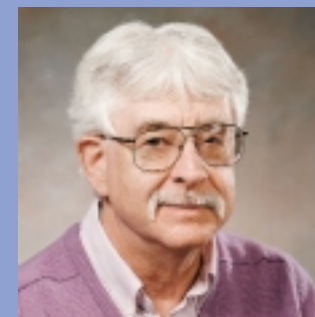
"In many of her courses, Bettina incorporates art, poet-



Bettina Aptheker



Katherine Roberts



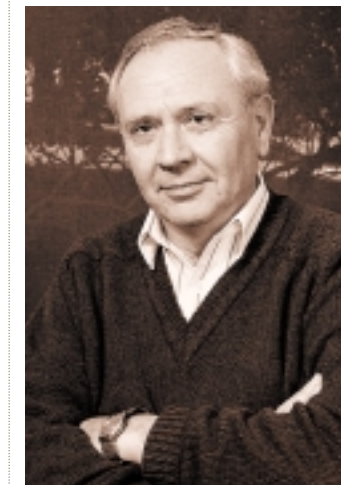
David Kirk

ry, guest speakers, slides, videos, music and engaging readings," said Jorge Hankamer, former dean of humanities. "She transforms each class experience into a multimedia chapter of a well-planned story."

Roberts "represents the best of a Santa Cruz education," said Alumni Council member Douglas Foster. Named national editor in November, Roberts had been the newspaper's op-ed page editor since 1995, and had worked in several other positions there. Roberts received a bachelor's in politics from UCSC (Kresge '74).

Outstanding Staff Award recipient Kirk's encyclopedic knowledge of film has placed him in a rare position for a nonacademic staff member. In his more than 27 years at UCSC, Kirk has built a reputation as someone who can track down the most obscure video, becoming a savior for teachers who had nearly given up hope of finding just the right title for their classes.

In Memoriam



Ronald Henderson

Ronald W. Henderson, a professor emeritus of education and psychology at UCSC whose research focused on improving educational opportunities for underrepresented minorities, died at his Santa Cruz home in November after a lengthy battle with melanoma. He was 67.

Henderson's dual academic interests in child development and education fueled his research on social and cultural influences on development, academic motivation, cognition, and mathematics and science education.

His specific research interest was in the development of instructional approaches that would increase achievement and participation in mathematics by Latino students, women, and other groups that are underrepresented in math and the sciences. He specialized in the development of motivation to achieve and participate in mathematics.

Henderson, who joined the UC Santa Cruz faculty in 1977, also served as provost of UCSC's Crown College, chair of the Academic Senate, and dean of the Division of Graduate Studies.

His illness forced him to retire in 1999.

VISIONARIES OF THE VISUAL

While crowds fill many of this country's museums and galleries each day to appreciate the soul-stirring qualities of exhibition art, a very small number of individuals—curators and directors—make momentous decisions about the works we stand in line to see. UC Santa Cruz alumni fill many of these important positions, and the half-dozen graduates profiled here make the critical judgments that determine the art that their institutions buy or borrow, which artists to feature, and in what contexts the works will be displayed. With past and present affiliations at some of the nation's most respected art museums and galleries, these six not only influence how art is viewed today, but how it will be remembered tomorrow. **BY BARBARA MCKENNA**



GARY FREIDMAN/LOS ANGELES TIMES

Jeremy Strick

Director

Museum of Contemporary Art, Los Angeles

Art History, 1977

BEFORE COMING to the Museum of Contemporary Art (MOCA) in July 1999, Jeremy Strick worked in curatorial positions at Washington, D.C.'s National Gallery of Art, the Saint Louis Art Museum, and the Art Institute of Chicago. He is credited with having a profound influence on programs in 20th-century art at those institutions, even managing to open a new wing of contemporary art at the Art Institute of Chicago during his tenure. "In all three jobs, I worked to bring those institutions more decisively into the present moment," Strick says. As head of one of the largest and most important contemporary art museums in the world, Strick is in his element. MOCA's 4,000-piece collection draws thousands of visitors each day for exhibitions and public programming. Strick is involved in every aspect of the museum's operation—from acquisitions (there were more than 200 in his first year as director) and event programming, to fundraising and marketing. He even curates on occasion. "It's a big responsibility," Strick concedes, "but one that's really more exhilarating than burdensome. It's very thrilling to be working where people come to discover the most ambitious art being created today."



B.B. JONES

Karen Moss

*Director of Exhibitions and Public Programs
San Francisco Art Institute
Studio Art/Art History, 1977*

KAREN MOSS is drawn to both the scholarly and the hands-on worlds of art that have led to positions in either curation or education at such prestigious institutions as the Santa Barbara Museum of Art, L.A.'s Museum of Contemporary Art, and the Walker Art Center in Minneapolis. But it wasn't until 1999, when she stepped into her current position, that Moss could finally combine her dual passions under one job title. At the 125-year-old San Francisco Art Institute, one of the country's premier art colleges, Moss curates exhibitions in the institute's three galleries, manages an extensive public programming schedule, and oversees a far-reaching community education program. Moss credits her wide-ranging interest in art to her training at UCSC. "The direction I took in my career was very much influenced by my studies in art history and the experiences I had in a museum studies seminar at UCSC," she says. Moss still has the printed program from a modern sculpture exhibition that she and fellow classmates put together under the supervision of her UCSC mentor, former faculty member Nan Rosenthal. "It was really unusual to experience that level of museum practice as an undergraduate," she says. "You were allowed to do things at Santa Cruz that absolutely didn't happen in other places."



JIM GOLDBERG

Philip Brookman

*Senior Curator of Photography and Media Arts
Corcoran Gallery of Art, Washington, D.C.
Individual Major, 1975*

GREGECIAN STATUES, Renaissance landscapes, and other classical art will always occupy a prominent place in the art world. But, for more than a quarter century, Philip Brookman has been expanding exhibition practice to foster another important function of art—the reflection of everyday life.

During his eight-year tenure at the Corcoran, Brookman has curated scores of critically acclaimed exhibits, unveiling gritty and evocative realities—the hardened faces of homeless children; the pill-riddled rooms of dying cancer patients; guileless moments of exuberance, compassion, and intimacy.

Brookman's approach brings with it occasional controversy, perhaps the most publicized example being a 1989 exhibition at the Washington Project for the Arts (WPA) of the homoerotic works of Robert Mapplethorpe. The show was originally slated to go on exhibition at the Corcoran, but was canceled just weeks before the opening for political reasons. Brookman, a curator at the WPA at the time, and UCSC alumnus and then-WPA executive director Jock Reynolds, decided to bring the show to the WPA. "It wasn't a hard decision," Brookman says. "We wanted people in Washington to see what they were being told they couldn't see. And people came in great numbers. I think we had about 50,000 people in 25 days. No one had seen anything like it."

"I have worked for a long time to rethink what a museum is and what a museum does," says Brookman, whose career also includes curatorial positions at UCSC's Sesnon Art Gallery, San Diego's Centro Cultural de la Raza, and the National Gallery of Art. "For a long time museums were mainly history archives. What I am aiming for is not so much a traditional academic look at art and art history, but art as it connects to the community, to people's lives."



WILLIAM COUPON

Keith Christiansen

Curator of Italian Paintings, Metropolitan Museum of Art, New York City History and French Literature, 1969

IN HIS JOB, Keith Christiansen comes face to face with some of the most magnificent art in the world. A staff member at the Met for the past 23 years, Christiansen oversees the museum's collection of 14th- through 18th-century Italian paintings. This gives him a full palette of job duties—from examining paintings with infrared equipment, to matching a Renaissance masterpiece to a period frame, to installing exhibitions at the Met using art from around the world. Christiansen's detailed grasp of art history is essential in curating a show, but so is a certain pragmatism. "Exhibitions take place in a negotiable realm between the ideal and the practical," he says. "You get in your mind the works of art you need to carry out your concept, and then the negotiating and bartering begins: You learn that a work that would perfectly exemplify a certain period or style is never put on loan, that another has all the right components but is in terrible condition, and yet another belongs to a museum that is already lending you two paintings and won't be thrilled about making a third loan." Christiansen not only decides what the public will see, but also what the museum will buy—heart-pounding decisions that can carry price tags into the millions. "If you're laying down \$2–5 million on an acquisition, it's vital to have a clean, unbiased reaction to the piece," he says. "We all have these ingrained responses that, when you're making this kind of a purchase, you can't afford to follow uncritically. You have to stretch your expectations and ask, 'What am I looking at? How does this compare to works from a similar period? What will it add to the collection? Does it represent a historically pivotal moment?' You have to be absolutely certain—intellectually and intuitively."



R. E. JONES

Ada Takahashi

*Director and Partner
Robert Koch Gallery, San Francisco
Aesthetic Studies, 1975*

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OST ART GALLERIES emphasize selling art, not collecting it. But the Robert Koch Gallery in San Francisco has gained an international reputation not only as a distinguished vendor of fine photography, but for its unique collection of vintage 19th- and 20th-century European and American photography. Ada Takahashi, who has been with the gallery since 1986, shares duties with co-owner Robert Koch. Once a photographer herself, Takahashi now focuses on curating shows and managing the gallery. She began her professional career as a researcher at the San Francisco Museum of Modern Art, but quickly moved into gallery work where she found more opportunities for interaction with people—discovering new artists and sharing their work with others. "It's exciting to come across new work," she says. "When it's a great discovery, you know it right away. The great pieces captivate your perception visually, intellectually, and intuitively. And then, when you can ultimately exhibit that work—when you see it up on the wall—that's a very satisfying experience."



ALEX CONTRERAS/YALE UNIVERSITY

Jock Reynolds

*Director, Yale University Art Gallery, New Haven
Psychology, 1969*

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AKING ON THE JOB in 1998 as director of the Yale University Art Gallery—America's oldest university teaching museum and home to a collection of more than 86,000 works—was a logical step for the former director of a cutting-edge graduate program in interdisciplinary arts (San Francisco State University), executive director of a dynamic artists' organization (the Washington Project for the Arts), and director of another prestigious academic museum (Phillips Academy's Addison Gallery of American Art). As a practicing artist, Reynolds and longtime artistic collaborator and wife, Suzanne Hellmuth, have created large-scale visual theater productions, installations, and exhibitions that have been seen around the world. Their works have been commissioned by MIT, the Carnegie Library, and the University of Washington, while some of their studio art resides in such collections as the Walker Art Center, the Corcoran Gallery of Art, and the Smithsonian. But it is his role as a teacher that Reynolds values most. For ten years Reynolds was a member of the San Francisco State University art faculty, and, from early in his career, he has made the education of up-and-coming artists and scholars a priority. Reflecting on the path that led him to Yale, Reynolds says: "I purposely eschewed chances to run big-city museums because I wanted to play an active role as an educator. It's a thrill to continuously engage the minds and creative curiosity of young people."

Meeting the Need

UC Santa Cruz responds to California's teacher shortage with a bold new program

CAROL KRANTZ was about to give up on her lifelong dream of becoming a teacher when she heard last year about a new program at UCSC that offered both a teaching credential and a master's degree in education in just 15 months.

Krantz, 58, had decided at the age of 12 to become a teacher, but marriage and children had sidetracked those plans. Having recently earned her bachelor's degree in American studies at UCSC, Krantz couldn't afford two more years of school.

UCSC's program, which combines preparation for classroom teaching with an emphasis on the theoretical basis of teaching and learning, was a perfect fit for her.

"I feel like this is what my destiny has always been," said Krantz, who is preparing to teach third grade. "I have always loved teaching. It's just a part of me."

Eighty-five students are enrolled in the inaugural class, and many cite the 15-month schedule as a major factor in their decision to choose UCSC. Yes, it's rigorous, they all agree, but the prepar-



Carol Krantz and some of her students at Main Street Elementary School in Soquel, California

RE: JONES

ation is a valuable blend of hands-on training and scholarship.

If the 15-month program seems to have been tailor-made for students, its origins actually lie in meeting the needs of the state of California, which is experiencing an acute teacher shortage. It's hard to fathom the scope of the challenge: Between 250,000 and 300,000 new teachers will need to be hired in the next ten years, according to the California Commission on Teacher Credentialing. That rivals the size of the entire teacher workforce today, which numbers 284,000. The task is even more daunting given that California currently issues only 20,000 new credentials each year but will need to hire 36,000 teachers per year to meet the demand.

In 1999, when Governor Gray Davis tapped the University of California to beef up its teacher-preparation programs, UCSC was quick to respond. Santa Cruz, in fact, was the only campus that was able to launch an intensive program by summer 2000. "We plunged in," said Joyce Justus, chair of UCSC's Education Department. "I went to the UC Office of the President and said 'Help!,' and they gave our campus the resources we needed to condense our successful two-year program into 15 months."

UC campuses historically have

prepared only about 4 percent of the teachers who are credentialed in California. Private colleges and universities credential another 30 percent or so, and the rest earn their credentials at California State University campuses. Davis asked UC to double its share, and he backed his directive with resources, including the Governor's Teacher Scholars

Between 250,000 and 300,000 new teachers will need to be hired in the next ten years. That rivals the size of the entire teacher workforce today, which numbers 284,000. California currently issues only 20,000 new credentials each year but will need to hire 36,000 teachers per year to meet the demand.

Fellowships, which cover tuition for aspiring teachers who commit to work for four years in low-performing, hard-to-staff schools following graduation. Fifty of UCSC's current students are enrolled in the fellowship program.

The UCSC curriculum plays on the strengths of a teacher-preparation program that was developed to emphasize the needs of linguistically and culturally diverse students. The program's breadth and depth have historically prepared its graduates to take strong leadership roles "right out of the starting gate," said Justus.

"We believe that better preparation leads to greater professional success," she said, noting that the UCSC program exceeds state requirements for the number of hours spent student teaching.

The program begins in summer with an intensive three-course load, including a classroom placement that offers opportunities for observation and integration of theoretical material with "real-world" scenarios (see sidebar). It wraps up the following summer with a condensed five-week quarter that ends mid-July to allow graduates to begin teaching in mid-August.

The pace is grueling, as is the workload. "We had to write 16 papers in the first class," recalled

Krantz. "It was a killer, and it can be hard to assimilate it all. But education is the core of our future. Teachers have an amazing amount of responsibility. When I can use the tools from my classes to take children aside, and—boom!—they're learning, they're successful, they're not feeling hopeless, well, that gets to the heart of all the idealistic reasons I want to teach."

UCSC has also contributed significantly to a rethinking of teacher education and professional development. "We're moving away from saying that when you get your credential, you're ready to teach," said Justus. "It's

a recognition that good teaching grows over a lifetime."

At UCSC, teacher preparation can begin at the undergraduate level with a minor in education. In addition to the credential/master's program, UCSC administers the very successful New Teacher Project, which provides professional development and mentorship opportunities for teachers during their first two years in the classroom. The model has been so successful that it is being expanded beyond the Monterey Bay Area into Silicon Valley, and it is being replicated in school districts across the state.

Next on the department's agenda: a new doctoral program in education that would prepare the next generation of faculty for UC and California State University schools of education. Currently in the proposal stage, the Ph.D. program is targeted to begin in fall 2003.

For Sarah Henne, 25, one of the most valuable aspects of the credential/master's program is the way she and her fellow students are encouraged to view each other as resources. "The curriculum manages to be honest about teaching conditions while also inspiring us to believe that we can face those challenges in well-prepared, effective ways," said Henne, a UCSC graduate who is earning her bilingual multiple-subject (elementary school) teaching credential.

Because English-language skills vary tremendously by region and even within a single classroom, teachers can't count

on using language to reach their students. Being fluent in Spanish will help Henne, particularly if she lands a job in nearby Watsonville as she hopes, but it won't help her reach students who speak Vietnamese, Laotian, and Chinese.

"We're learning how to use everything at our disposal to reach students, including other children in the classroom. Everyone in the room is a resource," said Henne, whose upbeat confidence is shared by many. "Diversity creates so many opportunities for a teacher to bring world studies into the classroom. Most of our group see challenge as exciting."

For UCSC's faculty, preparing badly needed teachers offers several levels of gratification: There's no doubt their students will find jobs, and there is satisfaction in knowing that UCSC offers follow-up professional support after graduation. There is also comfort in knowing that former governor Pete Wilson's class-size reduction efforts have improved the classroom environment for everyone.

"As a taxpaying citizen, my fear was that if we didn't do something to speed up the credentialing process and get more teachers in schools, the state would be putting nontrained people in the classroom, and class-size reduction wouldn't accomplish what was hoped," said Justus. "Education has emerged at the top of everyone's agenda, and we have got to take advantage of that and move quickly. I think universities like ours have a special responsibility to work with our public-education partners to improve the quality of public schools."

—JENNIFER McNULTY

Teaching for a Better World

The Peace Corps slogan, "The toughest job you'll ever love," is an apt description of what's in store for new teachers. And like Peace Corps volunteers, many aspiring teachers are drawn to the work by a desire to build a better world.

Nowhere is that need as great as it is in low-income urban schools which typically lack the resources it takes to attract—and keep—top-notch teachers.

At UCSC, the credential/master's program emphasizes field placements in diverse settings, beginning with the students' first classroom assignment in a poor inner-city school district in San Jose.

"By working in urban schools, our students get a chance to see the issues that are keeping low-income children from succeeding in the educational context," said June Gordon, assistant professor of education at UCSC, who teaches *Urban Education* at the undergraduate level and coordinates the San Jose placements for master's students. "Our graduates may not choose to teach in urban settings, but the urban field placement exposes them to the challenges facing many school districts."

Franklin-McKinley is the lowest-income district in San Jose. The student body is made up predominantly of Vietnamese, Latino, Cambodian, and Laotian students, with smaller numbers of African Americans, whites, and immigrants from Eastern Europe, the Middle East, and South Asia. Eighty-seven percent of the students participate in the free-lunch program—a standard measure of the economic status of a school's population.

"There were eight or nine different languages in my classroom," said master's student Americo Castillo. "The teacher tacked a world map on the wall with pins marking where the students were from, and there were dots all over that map." Such robust diversity stood in stark contrast to the divisions Castillo saw between Latino and white students in Castroville, the small agricultural town south of Santa Cruz where he grew up. "The kids in San Jose were awesome," he said. "There were so many cultures that everybody seemed to just appreciate everybody else. If that's typical of urban schools, other schools have a lot to learn from these kids."

Gordon, whose not-so-hidden agenda is to inspire new teachers to take on the extraordinary job of urban teaching, said the experience of working in urban schools transforms many aspiring teachers. "So many issues are played out in urban schools—immigration, socioeconomic differences, language barriers, lack of school resources," said Gordon. "Unless our students get this hands-on exposure, many aspiring teachers won't consider urban schools. Nothing but experience can change that, and we provide a safe environment where they can discuss and critique what they have seen and felt."

Adding to the challenge facing urban school districts is the struggle to build a diverse teaching force, said Gordon, author of the new book *The Color of Teaching*, which explores the cultural and social forces that discourage people of color from becoming teachers. The reasons vary depending on the ethnic group, according to Gordon. Family discouragement is a common theme, as are the lack of respect afforded teaching by mainstream America, and the lasting effects of racism and the mislabeling of children's academic abilities. Contrary to public perception, teaching is a creative, challenging, and rewarding profession that requires risk-taking and commitment, said Gordon. "Understanding the complexity of teaching and portraying the reality of the profession would help correct misperceptions," she said.

Castillo, 25, sees teaching as a road to social change. "I'm an activist, and teaching to me is a form of activism," said Castillo, who was a union organizer with the United Farm Workers as a UCSC undergraduate. "My dad—we used to pick strawberries, and he said, 'Mico, if you really want to make a difference, you've got to be a teacher. Start with the little kids and try to be a role model.'"

After college, Castillo taught fourth grade with an emergency credential in his hometown. It was a difficult nine months, in part because of the chilly reception he got from the parents of his white students. But Castillo persevered and had a successful year. Now he looks forward to returning with additional skills to break down cultural barriers and encourage parental involvement.

Recalling the pride he felt in fourth grade when, for the first time, his teacher—a man of Mexican heritage—provided a role model for his own future, Castillo said he hopes to inspire some of his students, too. "There are kids from my community who aren't being heard," he said. "There are a lot more voices out there that could be heard. I can provide a means for those voices to be heard, because I know what they sound like."

—Jennifer McNulty

Mercury:

a toxic legacy



Graduate students Douglas Steding (left) and Christopher Conaway collect water samples from the Guadalupe River, which carries mercury pollution from the New Almaden mine into the southern end of San Francisco Bay.

As a UCSC graduate student in 1997, Priya Ganguli had not yet settled on a research subject for her thesis when she came upon a strange-looking creek during a field trip. The creek was bright orange, stained with iron oxides draining into it from an abandoned mercury mine. Intrigued, Ganguli decided to find out what else was escaping from the New Idria mine into San Carlos Creek, which flows into a wildlife refuge at the headwaters of the San Joaquin River.

What she discovered not only earned her a master's degree, but helped focus attention on a serious environmental problem.

Ganguli found that mercury, a highly toxic element, was entering the creek from the mine and nearby piles of mine tailings. Spurred by her findings, Ganguli's adviser, professor of environmental toxicology Russell Flegal, launched several new research projects looking at various aspects of mercury pollution.

"Mercury is starting to surpass lead as one of the biggest environmental concerns in the U.S. and throughout the

world," says Flegal, one of the world's leading experts on lead and other trace metals in the environment.

As chair of UCSC's newly established Department of Environmental Toxicology, Flegal oversees a unique interdisciplinary program that is addressing a broad range of issues concerning potentially harmful chemicals and microbes in the environment (see sidebar).

His lab's findings on mercury are helping the San



Mercury, a highly toxic element, was entering the creek from the New Idria mine site.

Francisco Regional Water Quality Control Board to develop a plan to clean up mercury pollution in the San Francisco Bay Area. Ganguli, meanwhile, is one of two former students from Flegal's lab working on mercury cleanup efforts for the Regional Board.

San Francisco Bay consistently exceeds water quality standards for mercury. Some popular sport fish in the estuary contain such high levels of mercury they are unsafe to eat. High mercury concentrations have also been found in failed eggs of an endangered bird, the California clapper rail, that nests in the bay's marshes.

According to Ganguli, some mercury from the New Idria mine, located in San Benito County, may travel down the

San Joaquin River and contribute to the contamination of San Francisco Bay. But the largest single source of mercury pollution in the bay appears to be another inoperative mine that Flegal's lab is now investigating.

The New Almaden mining district in the Santa Cruz Mountains near San Jose was once the largest producer of mercury in North America. Mining operations at New Almaden shut down in 1975, and the area is now a Santa Clara County Park. But Flegal's lab is finding that mercury from the mines and associated waste piles is making its way into the Guadalupe River, which empties directly into the southern end of San Francisco Bay.

MOST PEOPLE KNOW mercury as the silvery liquid metal used in thermometers, but it occurs in a variety of other forms. All forms are toxic, but the most dangerous is an organic form of the element known as methylmercury.

A potent neurotoxin, methylmercury readily enters the aquatic food chain and becomes concentrated in the tissues of fish and the animals that eat them. Through the process of biomagnification, concentrations of mercury in predatory fish can be a million times higher than in the surrounding water.

In humans, mercury's toxic effects on the nervous system can lead to serious illness and death. Symptoms include shakiness, slurred speech, loss of coordination, and changes in mood and personality. The expression "mad as a hatter" came from the effects on 19th-century hatmakers of the mercury salts used to make felt. In the 1950s, mercury discharged by a factory into Japan's Minamata Bay accumulated in fish and poisoned thousands of people in the fishing village of Minamata, killing more than 800.

But current concerns about mercury are focused on more subtle health effects from exposure to low levels of methylmercury. According to a recent report from the National Academy of Sciences, as many as 60,000 children may be born each year in the United States with neurodevel-

opmental impairments caused by exposure to methylmercury in the womb. At greatest risk are children whose mothers consume large amounts of mercury-tainted fish while pregnant or nursing.

"What appears to be happening with mercury is the same thing we've seen with lead—the more carefully researchers look, the more they discover subtle health effects from low-level exposure," Flegal says.



Through the process of biomagnification, concentrations of mercury in predatory fish can be a million times higher than in the surrounding water.

Compared with human health effects, much less is known about the effects of mercury on wildlife. In the 1980s, Flegal and his coworkers looked at mercury levels in marine mammals, fish, and invertebrates. They found especially high concentrations in marine mammals, but the effects are still unknown, he says.

"If they were humans they'd be in trouble," Flegal says. "But we don't really know what the effects of mercury are on marine life in San Francisco Bay."

The possible connection between mercury and egg failure in endangered California clapper rails, however, has intensified the pressure to clean up mercury pollution in the bay.

MERCURY ENTERS the environment from a wide range of sources, both natural and manmade. It is a trace contaminant of most coal, and emissions from coal-fired power plants are a major source of mercury pollution in many parts of the world. In California, however, historic mining activities have left a toxic legacy of mercury contamination.

Rich deposits of cinnabar,

mountains of California. No one knows how much they left behind or where it is now.

"In the western United States, we are cursed with this mining legacy," says Khalil Abu-Saba, an environmental specialist with the San Francisco Regional Water Quality Control Board.

Abu-Saba, who earned his M.S. and Ph.D. degrees under Flegal, is now working to develop a mercury "total maximum daily load," or TMDL, for San Francisco Bay. A TMDL defines how much of a pollutant a body of water can receive and still meet water-quality standards. The Regional Board then allocates a portion of the total load to each of the known sources of the pollutant, and those sources are required to reduce loads to meet their allocated amounts.

The challenge is to identify and quantify all of the sources of mercury so that cleanup efforts can target the most significant sources. In the late 1980s, Flegal helped the Regional Board set up a monitoring program for trace substances in San Francisco Bay, and his lab still conducts much of the sampling and analysis for the program. As a graduate student, Abu-Saba participated in the monitoring program, so when he began work on the mercury TMDL he knew where to turn for data.

"When I sat down with the numbers and looked at the distribution of mercury in San Francisco Bay, I saw a clear signal leading into the South Bay," he says.

That was surprising, because a substantial amount of mercury enters the north end of the bay through the Sacramento–San Joaquin Delta from old gold and mercury mining sites that drain into the Central Valley. So Abu-Saba asked Flegal if his lab could take a look at mercury contamination in the New Almaden region. Martha Thomas, an undergraduate working in Flegal's lab, and graduate student Christopher Conaway took on the project.

"They produced some of the first measurements of methylmercury in sediments from the Guadalupe River watershed, and that gave us the smoking gun we needed to show that New Almaden is the biggest ongoing source of mercury pollution in the bay," Abu-Saba says.

Ongoing sampling in the Guadalupe River shows a lot of mercury coming down the river from the New Almaden mining district, Conaway says.

"In some places, people have even been able to pan liquid mercury out of the sediments," he says.

Abu-Saba's draft report calls for a major reduction in the mercury load coming from the Guadalupe River. The Santa Clara Valley Water District, as well as the Santa Clara County Parks, would be primarily responsible for achieving that reduction, he says.

The process leading to formal adoption of a total maximum daily load for mercury will take several years, but Abu-Saba hopes to get cleanup efforts in the Guadalupe River watershed started before then.

The Santa Clara Valley Water District and the U.S. Army Corps of Engineers are currently engaged in a massive flood-control project on the Guadalupe River, which Abu-Saba sees as an opportunity to remove mercury-contaminated sediments.

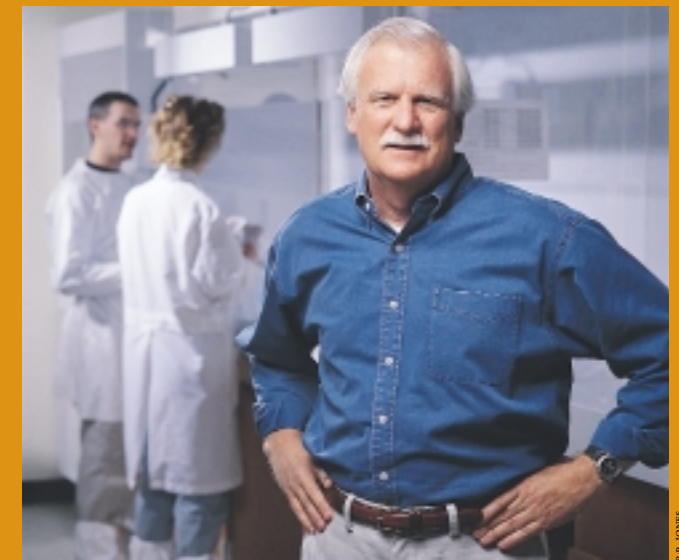
"We have been working closely with them, and I do believe we can remove large amounts of mercury from the watershed in the short term," he says.

In the long term, preventing additional contamination from New Almaden will require controlling erosion and runoff from the huge piles of mine tailings, which cover large areas around the mines. Ganguli is monitoring the effectiveness of such remediation efforts at another old mercury mine, the Gambonini mine, in Marin County.

Investigations of the New Almaden and New Idria mine sites are only one aspect of the ongoing mercury research in Flegal's lab. Other projects include measuring mercury in air and rainwater to see how much mercury pollution in the Bay Area comes from the atmosphere; looking at petroleum products as potential sources of mercury; and studying how mercury changes from one form to another in the environment and how it cycles between the water and the sediments in San Francisco Bay.

According to Flegal, many unanswered questions remain. "Our understanding of the cycling of mercury in the environment is about where our understanding of lead was ten years ago, so we're way behind," he says. —TIM STEPHENS

Environmental perils: An interdisciplinary approach



Environmental Toxicology Department chair Russell Flegal

Hheavy metals, pesticides, dioxins, pathogenic bacteria—a dizzying array of pollutants and harmful organisms has made its way into the environment, raising disturbing questions for our industrial society. Are there toxic chemicals in our drinking water, our food, the air we breathe? What level of exposure is harmful to human health? How are pollutants affecting wildlife and complex ecosystems?

UCSC's Department of Environmental Toxicology, established in the summer of 2000, is addressing these issues through scientific research, teaching, and collaborations with state and federal regulatory agencies. With a growing range of interdisciplinary research programs, the department builds on UCSC's recognized strengths in environmental research.

The department's faculty are widely recognized for their work on toxic heavy metals and harmful bacteria. Ultimately, the results of their research may lead to new methods for controlling environmental hazards and for counteracting the health effects of pollutants.

"We want to identify the sources of toxicity in the environment and understand how they become a threat to organisms, including humans," says Russell Flegal, who chairs the new department.

The department, which offers graduate programs leading to M.S. and Ph.D. degrees and undergraduate courses in environmental toxicology, fills a distinctive niche, Flegal says. Most other toxicology programs are associated with medical schools and focus primarily on human health, while UCSC's program focuses on all types of organisms, including humans.

In addition to Flegal, who studies how human activities affect the cycling of trace elements in the environment, the department includes:

- ▶ Assistant Professor Karen Ottemann, who studies how pathogenic bacteria respond to their environment and infect their hosts;
- ▶ Associate Professor Donald Smith, who studies the biological effects of heavy metals and is involved in efforts to improve treatments and reduce human exposure to lead;
- ▶ Assistant Professor Zhiwu Zhu, who studies the molecular mechanisms involved in the regulation of metal ion concentrations inside cells.

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Banana Slug Spring Fair 2001 on April 21



At Banana Slug Spring Fair 2000 (LEFT) Byron Patterson (Oakes '83) evokes a laugh during the African American Alumni Reunion Mentor's Circle; (RIGHT) Oakes founding provost J. Herman Blake talks with alumni about the life of the college at its 25th anniversary celebration; (INSET, LEFT) Ana Espinoza (Oakes '84) participates in a panel discussion at the Oakes reunion; (INSET, RIGHT) old friends Don Nance (Merrill '70) and Becky Ray (Cowell '70) meet again at the alumni reunion luncheon.

BANANA SLUG Spring Fair is UCSC's open house and reunion weekend. For alumni, the event is an opportunity to revisit old stomping grounds while seeing the campus as it is today. BSSF 2001 takes place Saturday, April 21, with reunions, tours, lectures, and receptions. Alumni highlights are listed below. For more information, contact the Alumni Association at (800) 933-SLUG or check the web site at alumni.ucsc.edu.

Events to welcome alumni:

► Find your old friends at the Alumni Association's All-Alumni Reunion Luncheon. Classes of '71, '76, '81, '86, '91, and '96 will get special recognition. Guests are seated together by class year. Contact the Alumni Association at (800) 933-SLUG or via e-mail at alumni@cats.ucsc.edu.

► Every college will hold a provost's reception for alumni late Saturday afternoon.

► Stevenson College will celebrate its "living tradition" and its 35th anniversary with a reception and panel discussion reflecting on the college's past, present, and future. Invited guests include former provosts Glenn Wilson, David Kaun, Dennis McElrath, and Carlos Noreña. Contact Teresa Huidor, Stevenson provost affairs coordinator, at (831) 459-2638 or

via e-mail at tere@cats.ucsc.edu.

► Kresge College will celebrate its 30th anniversary beginning on Friday night with memorabilia displays, panel discussions, and a college dinner. Former provosts and key staff members will attend. To contribute your memorabilia or for more information, contact Provost Paul Skenazy at (831) 459-4792 or via e-mail at kralumni@cats.ucsc.edu.

► The Economics Reunion will include a Saturday afternoon panel discussion followed by an alumni/faculty dinner. Economics professors will also lead a hike, bike ride, golf game, auction, and other activities. Contact department chair Daniel Friedman (Graduate Division '77) at (831) 459-2657 or via e-mail at dan@cats.ucsc.edu. Find more information on the web at econ.ucsc.edu/alumni.shtml.

► The Community Studies Reunion will include a panel discussion and reception to bring together alumni, faculty, and current students. Contact department manager Penny Stinson at (831) 459-2849 or via e-mail at penny@zzyx.ucsc.edu.

► A gathering for Asian American and Pacific Islander alumni is being planned. Contact AA/PI Resource Center director Nancy Kim (Merrill '94) at (831) 459-5349 or via e-mail at nikim@cats.ucsc.edu.

► The Gay, Lesbian, Bisexual, Transgender Resource Center will hold an afternoon reception and roundtable discussion, including members of the newly formed GLBT alumni affinity group. Contact GLBT Resource Center director Deb Abbott (Porter '76) at (831) 459-4385 or via e-mail at dabbott@cats.ucsc.edu.

Association brings alumni writers to UCSC

ALUMNI POETS, NOVELISTS, journalists, technical writers, memoirists: All are part of *The Writing Life*, a course created at Kresge College over the last two years with the support of the Alumni Association's Distinguished Visiting Professor program.

"We wanted to bring alumni back to campus to talk about how they've made lives around writing," Provost Paul Skenazy said. "A lot of our students are transfers trying to figure out where to go with what they learn here at the university. We're showing them what some writers have done with their education at UCSC."

Kresge was able to create the course by combining college alumni funds with funds from the Distinguished Visiting Professor endowment. Mini-grants support three- to four-day residencies that bring alumni to campus to read from their work and meet with students.

In 1999, Gloria Anzaldúa, author of *Borderlands/La Frontera* and other books, talked with students about her work as a poet, community activist, and essayist focusing on women of color. Last fall, freelance journalist and memoirist Don Wallace (Cowell '74) and *New Yorker* staff writer William Finnegan (Cowell '74) worked with core-course students on issues of race, gender, and culture. In February, poet Mark Jarman (Porter '74) is teaching poetry and poetic narrative. In April, Nora Okja Keller (Graduate Division '90), whose



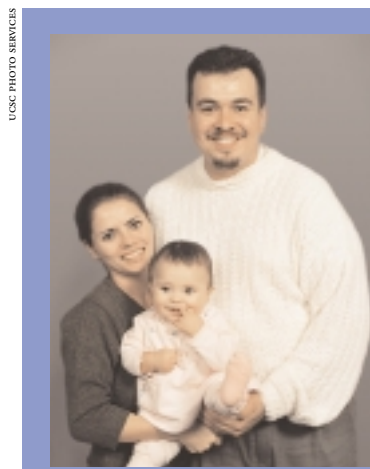
Freelance journalist Don Wallace (Cowell '74) talks with a student during his visit to the fall-quarter Kresge class, *The Writing Life*.

book, *Comfort Woman*, mixes memories of the Japanese occupation of Korea with contemporary issues of a daughter's struggles with her mother, will read from her new work.

Surrounding these alumni residencies have been class visits from other alumni writers, including Cris Beam (Kresge '94), Cate Corcoran (Kresge '88), Donna Jones (Kresge '93), Persis Karim (Merrill '85), Thad Nodine (Graduate Division '90), Juan Ramirez (Merrill '86), and Susan Watrous (Kresge '87).

During winter quarter, another version of *The Writing Life* is being offered with another series of alumni writers, whose works range from short stories and travel commentaries to investigative journalism.

Established in 1982 with a \$250,000 endowment funded by Alumni Association dues income and donations, the Distinguished Visiting Professorship rotates annually among the colleges. The endowment is intended to enhance intellectual life at the colleges.



Kresge senior Gilbert Velasquez Jr., shown here with his wife, Ana, and daughter, Yamileth, is one of 82 UCSC students who've received awards from the Alumni Association Scholarship Fund. Last year, generous alumni donors pushed the fund's endowment to \$1 million. This year, 15 students, an all-time high, received \$2,500 awards. The Alumni Association will continue fundraising to make multiyear scholarship awards available for financially needy UCSC undergraduates.

'Phone home,' says your alma mater

ALWAYS WONDERED WHAT happened to so-and-so from your college days? Want to know if there are other UCSC alumni in your area? The Alumni Association can help, but only if it knows where to find you.

When you keep your alma mater informed of your address (street and e-mail):

► Your friends can find you. The Alumni Association frequently forwards mail from one long-lost college pal to another. (Address and phone data are never released, but mail is forwarded.)

► Invitations to your reunion and local alumni events will reach you.

► You'll continue to receive this magazine and other occasional UCSC publications.

► You'll receive the bimonthly *E-Slug Bulletin*, a quick read with the hottest campus headlines.

A comprehensive UCSC alumni directory is being published in May. To compile it, the association recently mailed personal data updates to all 45,000 graduates for whom it had valid addresses. If you didn't fill out your update form, have moved, or simply changed your e-mail address, then your alma mater wants to hear from you.

Updating your information is simple via the Alumni Association's web site.

Go to alumni.ucsc.edu and click on the "update your address" link.

Newest affinity group for gay, lesbian, bisexual, and transgender alumni

which have brought hundreds of alumni into meaningful interaction with each other and the campus," says Alumni Association executive director Carolyn Christopherson.

"The new affinity group will help alumni find each other," says Deb Abbott (Porter '76), director of the Gay, Lesbian, Bisexual, Transgender (GLBT) Resource Center on campus. "This network will build a sense of community that was impossible to achieve at the time UCSC's older alumni attended college."

To get on the mailing list or to volunteer for the GLBT affinity group, contact the GLBT Center director Deb Abbott at (831) 459-4385 or via e-mail at dabbott@cats.ucsc.edu.

"We are delighted to support these grassroots organizing efforts,



Shown at a fall 2000 meeting to plan an affinity group for gay, lesbian, bisexual, and transgender alumni are (l-r) UCSC staff member David Kirk, Stuart Rosenstein (Kresge '99), John Laird (Stevenson '72), Deb Abbott (Porter '76, director of the UCSC GLBT Resource Center), and Alumni Council member Renée Martínez (Oakes '83).

ALUMNI NOTES

Cowell College

'69 **Margaret WADE Krause** is in her 15th year of teaching in the Modern Languages Department at Linfield College in Oregon and planning a sabbatical to France with her husband, Jeff, in 2002. **Claudia KRICH** is an elementary school teacher, and she is involved in community activities in Davis, Calif.; she is enjoying sharing college life vicariously with daughters Sophie (Porter '04) and Vivian (Stanford '04).

'71 **Donna FELDMANN Marbach** is a freelance writer whose work was published recently in *Breakaway* magazine; she is teaching creative writing to 11–14 year olds and has cofounded a bilingual journal for this age group in Guadalajara, Mexico. **D. (Diane) Barratt LUCAS Walton** and her husband, Stephen, are living in the Netherlands; she is writing for an American publisher and having fun participating in the English theater and performance poetry scene.

'72 **Nadene THORNE Davis** works a week-on, week-off schedule for the oil companies at Prudhoe Bay, Alaska; on her off time, she teaches float-plane flying in Moose Pass, where she lives with her husband and son. For ten years, **Georganne HANNA Morris** has worked as a certified rehabilitation teacher for the blind for the state of Arizona; her husband, Philip, manages New Frontiers Natural Foods Market and Cafe in Prescott; they have three teenagers, the eldest of whom is a freshman at UCSC. **Kate STAFFORD** has done the photography, writing, and research for numerous books and magazines; she is a horticultural therapy consultant for the California Health Services Department and owns and operates a photography business.

'73 **Eric ROY** is news anchor and *Morning Edition* cohort at KCRW in Santa Monica.

'74 **Jeffrey DAY** is composing music and teaching guitar at various music schools and is a doctoral candidate in psychology at the University of Zürich. **Ellen MESKE** is a storyboard artist and director for children's animated TV

series; in 1999 she was nominated for a "BAFTA" (British Academy Award) for a children's series she directed for the BBC called *Animal Shelf*. **Keith MOORE** is consulting and conducting research on community-based natural-resource management in West Africa and on pesticide management in the Ukraine; he is an assistant program director in the Office of International Research and Development at Virginia Polytechnic Institute and State University.

'75 **Karen OLSON** writes that she "keeps all of her mail-order catalogs alphabetized in a file box in her dining room."

'76 **Peter HANKOFF** is still writing in Hollywood. **Daniel KIRSHNER** is still designing bicycles, the latest of which incorporates arm levers into a recumbent bike. **Alan McKAY** manages a 60,000-member health plan for low-income residents in Santa Cruz and Monterey Counties.

'77 **Kate O'SHEA** is founder of the Institute of Orthopedic Psychology and author of *Healing Hip, Joint and Knee Pain*, published by North Atlantic Books.

'78 **Michael BARRIOS** has a private practice in clinical psychology and is clinical director of the Center for Psychotherapy in Essex, Conn.; he is also an assistant professor in the Department of Psychiatry at Yale University. **Margaret BURKE** is studying art in San Francisco.

'80 **Steven MAYERS** is an administrative assistant/desktop publisher at UC San Francisco and a freelance photographer; he lives alone with two cats.

'82 **Peter GAVIN** is teaching English in Marin County, living in San Francisco, writing screenplays, and "most importantly, married to a beautiful lady, Leslie."

'83 Since January 2000, **Peter GOLDSTEIN** has been European news editor for *WSJ.com*, the online *Wall Street Journal*, based in London.

'84 **Barbara FENNELL** is director of Family Court Services for Monterey County, Calif.; she is an attorney and a writer and lives with her nine-year-old son, Alexander.

'85 **Janet GROSSMAN** is author

of "Greek Funerary Sculpture in the J. Paul Getty Museum," appearing in spring 2001. **Li Chiao-Ping (Nancy LEE)** is an associate professor of dance at the University of Wisconsin–Madison; her dance company, Li Chiao-Ping Dance, founded in 1991, recently performed at the Kennedy Center in Washington, D.C.; she would like to locate her former roommate, **Erin CLARKE**. **Allen RAMIREZ-MARTINEZ** is a second lieutenant (chaplain candidate) in the U.S. Army Reserve and a Catholic hospital chaplain.

'87 **Kelly WINN-Boaitey** has a master's in counseling and is self-employed as a rehabilitation counselor; she is married and has two children.

'91 **Deborah BRESNICK** has completed an M.S.W. at San Jose State University.

'92 After graduating with an M.D. from Universidad Católica de Córdoba in Argentina, **Robert MATTHEWS** has moved to Irvine, Calif.

'93 **Bailey SMITH** has a master's degree in multicultural education from the University of Wisconsin–Milwaukee and is working as an education coordinator for the Conservation Corps of Long Beach; she was married in 1999.

'97 After working with Technovision Cameras in Rome, **Michaele SHAPIRO** is now in a camera intern program at Panavision Hollywood in Los Angeles.

'99 **Christopher CHRISTIANSON** is working in San Francisco, living in an artists' commune in Oakland, doing lots of writing, and being published on an Internet site, *Swirlpop.com*. **Jeffrey NEWMAN** is teaching marine biology to children in fifth through 12th grade at the Catalina Island Marine Institute.

Stevenson College

'67 **Susan AUGHINBAUGH Young** administers the Social Security Administration's Disability Program for the State of Nevada; her daughter attended UCSC and is now a graduate student at UC Davis. '69 **Diane COHAN** is a licensed private investigator and a licensed marriage and family therapist spe-

cializing in threat management and trauma response. **John GOEHRING** and his wife, Marilyn, are owners of The Toyworks, which sells quality nonviolent kid-friendly toys in Sonoma County, Calif.

'70 **Juliette MONDOT** and **Greg CALVERT** (Cowell '70) met at UCSC and are still married 26 years later; they are homesteading a ranch with their three children in Colorado's southeastern prairie, and they own a home-based desktop publishing company. **Claudia SHAFER** was appointed to the Santa Cruz County Planning Commission in spring 2000; she is a research lawyer who has been involved in local political issues.

'71 After ten years in rural Niigata Prefecture, **Donna FUGIMOTO** has moved back to Kobe, her Japanese "home," where she teaches English as a foreign language.

'73 **Gunnar FRIDRIKSSON**, a vice president at Merrill Lynch in New York City, is the change management manager for the firm's Global Design and Development Group; he has a ten-year-old daughter, Gudrun Moss, who lights up his life.

'75 **Diane SIPKIN** is practicing medicine at the Student Health Center at CSU Sacramento; she has received a \$511,000 grant from the California Endowment to screen, treat, and study chlamydia infections in the college population.

'76 **Fred MEDNICK** is the founder of Teachers without Borders, a nonprofit devoted to global educational reform and teacher training. For the past 15 years, **Rebecca NAIDIS** has been working as an interpreter from Spanish, French, and Italian into English for the European Union, the United Nations, and other international institutions in Europe.

'77 After participating in the April 2000 African American Alumni Reunion at UCSC, Compton Superior Court Commissioner **Kelvin FILER** returned home to find that he'd been written up in the Long Beach *Press-Telegram's* "Collectors Corner" for his 1,131 comic books, 120 coffee mugs,

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Davia Nelson (left) and Nikki Silva, aka the Kitchen Sisters, have brought recordings from the last century to life.

'Lost and Found Sound'

Davia Nelson (B.A., politics, Stevenson '75) and Nikki Silva (B.A., aesthetic studies, Porter '73) produce a historic series for National Public Radio

THOMAS EDISON cracking jokes. Tennessee Williams making recordings at a penny arcade. The whir, whistle, and hum of electric fans. Carnival talkers. Vietnamese manicurists. Voices of long-lost sisters, fathers, and grandfathers. Answering-machine monologues.

These are just a few of the sounds and subjects Davia Nelson and Nikki Silva have brought to life for millions of radio listeners nationwide on *Lost & Found Sound*. Launched two years ago, the award-winning series will air on National Public Radio's popular program *All Things Considered* through 2001.

Lost & Found Sound weaves together archival recordings, interviews, and music with journalistic storytelling to chronicle how recorded sound shaped and captured the 20th century. Much of

the material for the series comes from the listeners themselves, who have scoured their attics, basements, and garages for personal recordings of historic events, audio letters, and other sonic artifacts.

"The ability to record sound is just over 100 years old," says Silva, who has coproduced radio projects with Nelson for two decades. "There was a written record prior to 1900 and an oral tradition before that, but the 20th century was the first that was completely documented through the medium of recorded sound."

Lost & Found Sound got its start with Nelson, who, learning of a project commemorating the last century in photographs, realized the same could—and should—be done in sound.

After approaching award-winning radio producer Jay Allison and discussing the project with friends and colleagues from across the country, Nelson and Silva proposed the series to the National Public Radio (NPR) network. With NPR's support, the project mushroomed

into a national collaboration, involving radio producers, public radio stations, creative artists, and listeners. "Each person and each organization that got involved has added some of their imagination and their vision to it," says Nelson.

The series has received critical acclaim, winning a 1999 George Foster Peabody Award for excellence in radio documentary. The series web site, at *Lostandfoundsound.com*, received a 2000 Webby. In addition, a selection of the NPR pieces is now available as a two-CD set, *Lost & Found Sound, Volume One*.

For their work on the project, which they oversee and produce with Allison, Nelson and Silva have crisscrossed the country, digging into archives of recorded sound and interviewing pioneering disc jockeys, record producers, eccentric sound collectors, and everyday people who were willing to share their recordings.

The experience reminds Nelson and Silva of their work at a Santa Cruz radio station in the late 1970s and early '80s, when they cohosted a show as the Kitchen Sisters. (They took their name from 1940s Santa Cruz masons

Kenneth and Robert Kitchen.) During their days at KUSP-FM, they explored Santa Cruz and neighboring counties with a microphone and a notebook. The broadcasts from their fieldwork featured a variety of locals, including rodeo queens, Chinese apple growers, and "The Road Ranger," who rescued stranded motorists.

At about that time in their collaboration, the Kitchen Sisters discovered an old 78 r.p.m. wax disc record in an Oakland garage belonging to Silva's father. The wax disc, with a handwritten label reading "To Louie, Love Mrs. B.," carried a World War II message from an unknown woman to her husband stationed in England.

"Do they jitterbug there, honey?" Mrs. B. can be heard asking Louie. "Bet they don't dance as nice as we do though, and I bet they're not half as pretty, are they, hon?" On the other side of the record, Mrs. B. sings the lyrics to "Can't Help Lovin' That Man of Mine."

Nelson and Silva played the record on their Santa Cruz radio show in 1981 and on NPR nearly two decades later, but the identity of Mrs. B. and her husband remains a mystery.

Ironically, Silva says, of all the media uncovered for the *Lost & Found Sound* series—including records made of cardboard and recordings made with wire, on wax cylinders, and on 78s—some of the least-stable media are those that were popular in the latter part of the 20th century.

Some of the reel-to-reel tape, which the Kitchen Sisters used in the 1980s, is disintegrating. "We're even finding some of the DATs (digital audio tapes), are fragile, and the recordings are starting to fade away," Silva says.

Nelson and Silva have received a grant from the National Academy of Recording Arts and Sciences to begin preserving the *Lost & Found Sound* archive for the future. The grant will help ensure that people whose voices have been resurrected and chronicled for the series—like that of the mysterious and captivating Mrs. B.—aren't silenced once more.

—FRANCINE TYLER

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and 1,000 jazz albums.

'79 **Ruth ROSENBERG's** dance company, Ruth Rosenberg Dance Ensemble, is celebrating its tenth anniversary in 2000–01.

'83 **Lawrence WILSON** is an emergency medicine doctor in Midland, Tex., associate medical director of the Physician Assistant Training Program at Texas Tech, and emergency medical services director for Midland; four to six weeks a year he is also a cruise ship physician with Holland America.

'85 **Julia HAMBLIN Pinsky** is working at home to be close to her daughter, Emma Louise, and "enjoying Santa Cruz still after all these years."

'86 **Heidi SIMONSON** received the Commitment Award from Santa Clara University Law School for her years of service as an attorney providing pro bono legal assistance for low-income women in the Santa Cruz area. **Stacy HANDELMAN Stark** married Brian Stark in April 2000; she received her M.A. in education and creative arts and is working as an instructional coach for teachers.

'87 **Lesli SCHUSTERMAN** is teaching full time in Palo Alto, and she is the mother of a five year old.

'88 After finishing her Ph.D. in political science at Claremont Graduate University in 1999, **Elizabeth JAGOW** is teaching at the University of North Florida as a visiting assistant professor.

'89 **Susanne McCAFFERY-SAVILLE** is the author of *PugSpotting: A True History of How Pugs Saved Civilization* (Lawrence, Mass.: Cliocopia Press, 2000).

'90 After serving as the executive director of the American Chambers of Commerce in Uzbekistan, **Abaseh MIRVALI** and her husband have moved to Ankara, Turkey, where she is a consultant working on projects like President Clinton's state visit to Turkey. **Michael WILHELM** is a partner in a large multimedia company; he and his wife were expecting a baby in June 2000.

Michele WILSON is a social worker at the Golden Gate Regional Center working with developmentally disabled clients, and she is pursuing her license in clinical social work.

'91 **Elizabeth FINEBAUM-Szafir** is working at Kaiser Permanente in

the Department of Internal Medicine as a physician assistant; she and her husband live in West L.A.; friends can reach her at *ESzafir@aol.com*. **Winston HOLYAN** and his family have been living on the windy high plains of Clovis, N.M., where he is working as a firefighter and training with the New Mexico National Guard in air defense artillery; in his spare time he is studying for the LSAT. (**Yung**) **Min KIM** is pursuing a Ph.D. in English at the University of Maryland; she and her husband, Mark Pederson, live with their son, Erik, in Washington, D.C. **Lisa SONIN Larsen** is completing her doctorate in psychology from John F. Kennedy University; she's been married for four years to Glen Larsen. **Stacey LEETS Osborne** is a senior web developer for a major Silicon Valley technology company; she's been married since 1992 to **Tim OBORNE** (Crown '90); they live in South San Francisco with their two cats. **Christopher Carey-STRONCK** is a public school teacher in San Jose and lives in the Santa Cruz Mountains with his wife, Sharon, and their two children.

'92 **Brian FISK** completed paramedic school and is working in downtown Long Beach on "Rescue 3"; "it's a lot different than on TV," he writes. After living in Micronesia for several years, **Lisa HOUSTON Mirabelli** returned to the U.S. to get her M.A. in recreation and leisure; she and her husband have a son and are living in Ohio. **Robert VALLONE** and his wife are living in San Clemente and were expecting their first child in July 2000; he is in UC Irvine's fully employed M.B.A. program.

'93 **Denyelle GANSHIRT** is planning to get married in May 2001; she will be having a commitment ceremony with her girlfriend, Erica Smith. **Caryn NARDELLO** is providing consulting services to different companies as a technical trainer; she has trained nonprofit organizations about California's healthy families program and is now training Paine Webber stockbrokers on several computer applications.

Larisa OVERMIER Somsel is the strategic initiatives coordinator at the California Historical Society.

'94 **David HAMMERBECK** conducted three months of research at

Bibliothèque Nationale in Paris for his dissertation on Orientalism in 17th- and 18th-century French theater; his article on Bakhtin and Russian/Soviet satire will be published in the *Journal of European Studies*. **Yvonne HODGE** and her husband, who is retired, have moved back to her hometown in Florida. **Sean TAYLOR** works for Wells Fargo Bank and has been doing a lot of camping in Oregon and California.

'95 **Melissa JOHNSON** is curator and registrar at the Campbell Historic Museum and Ainsley House in Campbell, Calif. '96 **Michelle MA** is graduating from the Yale University Physician Associate Program this year. **Julie NEWELL** works with emotionally disturbed adolescents at a nonprofit agency; in her spare time, she attends rock-n-roll shows in San Francisco, reads comics, and makes super-8 movies.

'97 As district coordinator for the AmeriCorps Literacy Program at San Jose/Evergreen Community College District, **Marylin CRAWFORD** has established a program where college students tutor disadvantaged children in kindergarten through third grade and earn money toward their future educational expenses. **Ricky TECZON** is conducting site investigations and preparing plans and specifications for the San Francisco Bay Area toll bridges.

'98 **Justin BORBA** has returned from southern California, where he was working on his master's in psychology at University of LaVerne; "I'd rather be here (No.Cal.) without a degree than living in So.Cal. with a degree," he writes. **Paul LOPEZ** is enjoying working for a nonprofit organization helping low-income families qualify for subsidized child care and enabling their welfare-to-work participation in California's CalWORKs Welfare Reform Program. **Karin WATSON-STEIER** is teaching English at Mt. Eden High School in Hayward, Calif.

'99 **Maria ORTEGA** is starting a massage therapy business and focusing on her family life.

'00 **Katherine ECONOMOU** is working as a legal assistant in San Francisco at Brown & Wood LLP, a global securities firm.

Crown College

'75 **David SHAPIRO** is busy practicing as an anesthesiologist; his children are in 11th, eighth, and fifth grades. **Diana WHITESIDES** is coaching swimming, teaching PE, and staffing pools in Carmel Valley; she is "still waiting at Robata for [alums] Erik and David."

'77 **Jim FOX** graduated from law school in December 1999, passed the California Bar, and is now a patent attorney and an inventor; he and his wife, who is a musician, have three children.

'81 **Carol HOSHIZAKI** is working at a nonprofit organization on a web-based directory of health and human services agencies in Santa Clara County (*www.Helpsc.org*).

'82 After finishing up a postdoc on maize molecular genetics at UC San Diego, **David LERNER** moved with his family to the Gold Country, where they are enjoying running their own business providing biotechnology trade shows on university campuses.

'84 **Cheryl JETT Chapin** has been involved in neonatal pulmonary research at UC San Francisco for eight years; she and her husband, **Steve CHAPIN** (Crown '84), have three children, ages ten, eight, and three. **Erin HALLISY Smith** is married to a Navy man and has been teaching special education and ESL in Japan; they have relocated to Washington State recently, where she is continuing to work in education.

'86 **Lisa ALVAREZ** has a solo law practice in estate and elder law in Cupertino, Calif.

'87 **Lisa HENDRY Olson** and her husband, Brian, are raising their two children in Pleasanton, Calif.; she received her M.S. in mechanical engineering from UC Davis and is now working part time at the Clorox Company as a packaging engineer.

'88 After teaching in the San Lorenzo Valley Unified School District for ten years, **Lynda ROGERS** is working as a science and technology coordinator for the Santa Cruz County Office of Education.

'89 **Martin AZEVEDO** is back in northern California after a few years in New York; he spends his time as a computer consultant, freelance writer, and no-budget filmmaker.

'91 After stints in Atlanta and Ketchikan, **Jennifer CARMAN** is working as a city planner in Seattle and doing jazz vocals around town occasionally. After working as an attorney for five years in San Jose, **Russell JACOBSON** has taken a position as vice president for *WC Docs.com*, an Internet start-up, and is phasing out his law practice.

Hillary MAY married David Alemian in September 1997.

'92 **Barbara BROKISH Cadigan** married Steve Cadigan in October 1999. **Stuart MEYLER** is working at Modem Media, which was recently profiled by *Adweek* magazine as the "granddaddy" of Internet marketing. **Jonathan SLATER** has been practicing chiropractic in Los Gatos since 1998 and is a clinical faculty member at Palmer College of Chiropractic West; he has two children, ages ten and five.

'93 **Paul WARE** is slaving away in his internship at St. Luke's-Roosevelt Hospital in New York en route to becoming a physical medicine and rehabilitation doctor; he'll be completing his training at Stanford.

'94 **Shirley KIRBY** is a natural resources biologist with the Resource Assessment Division of the Maryland Department of Natural Resources; she is working on Chesapeake Bay and Watershed programs, including monitoring and nontidal assessment. **Alissa JACKSON Nolan** and her husband, **James NOLAN** (Crown '96), were expecting their first child in September 2000. **Ashley SMITH** is in her fourth year of a doctoral program in health psychology at the University of Pittsburgh; her research examines stress and anxiety, diet, and exercise and how these affect cancer patients and their families.

'95 **Walter COCKING** is director of operations for Nub Circus, a California Certified Organic Farmers (CCOF) food processor. **Naomi DEVLIN** is working as a web-content developer, playing lots of hockey, and managing an apartment complex; she is engaged to **Arik FLORIMONTE** (Porter '93).

'96 **Brian HILLIER** is a graduate student at Scripps Institution of Oceanography in the Marine Biology Program.

'97 **Donald KERNS** has a baby girl, Cecelia Aphrielle, and is work-

ing on a master's in industrial and systems engineering at San Jose State University.

'99 **Paul BROCK** is studying Spanish in Spain.

Merrill College

'72 **Patricia BROWN Coughlan** is chairman of the Public Policy Committee of the board of directors of the Alzheimer's Association of the North Bay and author of *Facing Alzheimer's: Family Caregivers Speak*.

'74 **Marni BARNES** and Clare Cooper Marcus have written a book, *Healing Gardens: Therapeutic Benefits and Design Recommendations*, which won the Place Research Award at the Environmental Design Research Association's annual conference in May 2000.

'76 **Jill FIELDS** is an assistant professor of history at California State University, Fresno; she published an article, titled "Fighting the Corsetless Evil: Shaping Corsets and Culture, 1900–1930," in the winter 1999 issue of the *Journal of Social History*.

'77 **Peter GAARN** was asked to lead the "Rules of the Garage" team for Hewlett-Packard's reinvention and transformation of itself as a company and a culture. **Joshua PECHTHALT** and his wife, **Lynn KERSEY** (Stevenson '78), celebrated their 15th wedding anniversary in 2000; they have a one-year-old daughter, Danielle Rose Kersey Pechthalt.

'79 **Kay MOHLMAN** and her husband, Richard Krause, have been living in Singapore for four years; they travel on their breaks to destinations in Asia, most recently to Vietnam and Thailand.

'80 **Genevieve OBERT** is a freelance automotive journalist; her book, *Prince Borghese's Trail*, in which she describes co-driving a 1970 Hillman Hunter in the Peking to Paris Motor Challenge, won the Motor Press Guild's Dean Batchelor Award for excellence in automotive journalism.

'82 **Mark STEPHENS** is a senior management consultant in the L.A. County Office of Education and the executive director of Yoga Inside Foundation; he has been a consultant to social-change organizations in Los Angeles since 1982.

'85 **Alice INOUE** is working for

Japan TV News in Honolulu as a bilingual news anchor as well as the host of a weekly Japanese TV show airing in Japan.

'86 After ten years at Columbia University as associate director of the Donald Keene Center for Japanese Culture, **Fred LITTLE** is working at the New Jersey School of Architecture; he also operates a small Aikido club, continuing the practice that began when he was a UCSC student.

'90 Since 1991, **Blanca ARELLANO** has worked for a nonprofit economic development organization in southern California, which provides business assistance, entrepreneurial training, job training and placement, and affordable housing.

After returning to Guam in 1990 to join the family business, **Kevin KYUNG** founded PM Restaurants in 1995 and opened the first TGI Friday's franchise in Guam in 1998.

'91 **John CURNUTT** is an Internet consultant and has a new spouse, Jennifer Rue. **Linda WEISS Lyon's** company, Hatbox, makes hats and bridal veils for upscale department stores and boutiques nationwide. **Sara MORRISSEY O'Callaghan** is working as an attorney in bankruptcy law in the Santa Cruz area; her daughter, Kaitlin Rose, was born in February 2000. **Dale ROSE** started his own business, 3-D Group (*www.3DGroup.net*), in 1994 doing research on the impact of human resources and nonprofit education programs; he currently employs two UCSC grads.

'92 **Ruth RABINOWITZ** has her own business photographing weddings in the Santa Cruz area.

'95 **Dan ZIVKOVIC** has joined a start-up in Pleasanton, Calif.; the company, Xing Corporation, is building a new electronic checking system.

'98 **Shelly BATHE** is a graduate student in the school counseling program at the University of Massachusetts, Amherst. **Heather NAGAMI** planned to enter the M.F.A. program in creative writing at the University of Arizona in fall 2000.

'99 **Elizabeth NICKNAM** is working as a buyer at Intel Corporation in the heart of Silicon Valley. **Jesse PEMBERTON** is making metal sculpture and is em-

ployed by Streetlight Records. **Talin TASCIAN** is a student at Rutgers Law School in Newark, N.J.

Porter College

'71 **Tony LUSH** is the director of Web Services for Fleming and Roskelly, a firm that specializes in public relations, direct marketing, and interactive media; he is an avid sailor and has represented the U.S. in three OASTAR single-handed trans-Atlantic races.

'72 For 20 years, **Gaylord SCHAAP** has been owner and manager of Northwood Golf Club in Monte Rio, Calif.; he has a two-year-old son and had another child due in July 2000. **Ellen ELIAS Silver** is marketing manager at O'Reilly and Associates, a technical information provider; in her spare time, she produces lesbian and gay comedy events with her life partner, Robyn.

'74 **Eric HAMBURG** recently coproduced the film *Any Given Sunday* with Oliver Stone; he is now a visiting scholar at UCLA. **Steve WANGSNES** is first secretary at the U.S. Embassy in Kingston, Jamaica, where he lives with his wife, Egle, and their two children.

'77 **Roberta ARENSON** has been illustrating children's books for the past eight years; collage art from her most recent book, *Manu and the Talking Fish*, will be included in an international exhibition of children's book illustration, "Le Immagini della Fantasia," which will travel in Europe in 2001.

Tom POSTER recently signed with Howard Talent West for theatrical representation.

'82 In addition to her work as a textile artist, **Sarah ALLISON** is working toward becoming an occupational therapist; she and her husband, **Michael WILHELM**

(Merrill '81), have a seven-year-old daughter. **Elena CAPELLA** is teaching at the University of San Francisco and at San Jose State University; she is a consultant to Catholic Healthcare West and working on her Ed.D. at USF.

'83 **Lisa KAPLAN** works as a voice actor in cartoons and commercials in Los Angeles, where she lives with her animation-writer husband; she is eager to locate **Phillip PLATH** (Stevenson '84).

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'84 Kristina JESSKA Carey moved to Marin County to be near family and be a mom; she's busy keeping up with a two-year old daughter. **Amy GERHAUSER** has been appointed assistant professor of sculpture at the University of Texas at Tyler.

'85 Kennedy ADAMS is very happily living in Corralitos, Calif., with his 13-year-old daughter.

'88 Janine THEODORE is acting and singing; she works as a hair stylist in downtown Santa Cruz at Phoebe's Salon.

'89 Tamiko AZUMA is an assistant professor in the Speech and Hearing Science Department at Arizona State University.

'90 Olman VALVERDE is in his fourth year as a business lawyer in Los Angeles; his areas of practice include business litigation, protection of trademarks, and representing start-up companies.

'91 Lisa MEEKER Gorny is happily "homesteading" in a very remote part of Alaska.

'92 After teaching English in Budapest for three years, **Susan HAAS** is working on an M.A. in English with an emphasis in creative writing at Sonoma State University.

'93 After receiving an M.Phil. in anthropology from the University of Cambridge, **Alexis PAVENICK** married Alex Tennant, received an M.A. in literature from Cal Poly, Pomona, and is now pursuing a Ph.D. in literature at UC Riverside. **Ondine YOUNG** is pursuing a doctoral degree in musical arts at the University of Southern California; she plays freelance baroque violin and viola and was a New York Concert Artists Guild finalist.

'94 Lisa MAYER started her own graphic design business in 1998 and feels very lucky to be doing what she loves and getting paid for it.

'95 Alexander MacBRIDE is in graduate school at UCLA.

'96 Oscar ROSALES has been working and getting ready to go back to school. **Jas SANDHU** is a consultant advising Fortune 500 companies and high-tech start-ups in Silicon Valley and surrounding areas.

'97 Tony ARIAS is a graduate film student at UCLA.

'99 Micol BENET is assisting the director of the National Human

Genome Research Institute, which leads the Human Genome Project, an international effort to sequence the human genome. **Suchitra FIELDS** is painting, showing her work, and raising her 12-year-old son.

Kresge College

'74 Gary MERRILL joined Caucus Systems, the leading provider of online business conferences; he has stayed in Santa Cruz all these years and is still happily married to Donna Becker; they have two children, Katie and Matt. **'75 Gary PISCHKE** is a senior geologist at ESCNC and was chair (1998–2000) of the San Francisco section of the Association of Engineering Geologists. **Sharon ROSEME** is "happily ensconced on a small rancho" northeast of Sacramento, practicing real estate law, raising her daughter, and doing community work.

'79 Doug FRIEDMAN is writing a few tunes and attempting to get acting work in southern California. **'80 Patricia BEDFORD** is working as a counselor at a community college in rural New Hampshire; she has one son, 13, and a life partner of ten years.

'81 After being fired upon the buy-out of his old company, **Drew SMITH** helped found a new biotech company whose goal is the development of a proteomics chip capable of diagnosing hundreds of diseases using a single drop of blood. **'85 Terry McLARNAN** is a psychotherapist working with children in Santa Clara.

'87 After four years as program director of the Holocaust Center of Northern California, **Ali CANNON** is now program coordinator for the Golden Gate National Parks Association; she has performed at Chutzpah, a San Francisco Jewish dyke event, and at Tranny Fest, a transgender film festival. **Coreen PLACHY** recently finished a six-month trip to India, Thailand, Bali, Australia, and New Zealand. **Deena MENDELSON Solwren** is a licensed clinical social worker and her husband, **Daniel REUWER Solwren** (College Eight '89) teaches biology and attends CSU Hayward, working toward an M.S. in education.

'90 Carl DURHAM recently mar-

ried Kristin Stevens in San Francisco; he is director of legal affairs for ICS, Inc., of San Jose, which went public last May.

'91 Belinda VAN SICKLE lives in Santa Monica and works as a writer/production artist at an ad agency that specializes in computer games; on the side she's gearing up for a second career as a travel writer.

Karyn SCHULTZ received an international M.B.A. in May 2000 from the Monterey Institute of International Studies; she helped create a new Internet company, *EnContacto.Net*, which will enable Latin Americans to remain in contact with family and friends regardless of their physical location.

'92 Michael FAULKNER is teaching Shakespeare to teens at the Tony-award-winning South Coast Repertory Theater and acting in TV commercials, including ones for Amtrak, U.S. Cellular, and Miller Genuine Draft. After spending three years in Taiwan and a year in Japan, **Vanessa RAGAN** moved to Los Angeles, where she is a social worker and in a master's program to become a bilingual (Spanish) school psychologist. **Jason SCHOLZ** has been with Whole Foods for nine years; during that time he has moved to Ann Arbor, gotten married, and is now in a teacher-certification program at Eastern Michigan University.

'93 For the last five years, **Jennifer ANDERSON** has been living in Indonesia and Germany and working as an English teacher and family-planning administrator; she was planning to get married in July 2000. **Wayne COLEMAN** has been farming organically since 1992; for two years he had an ecological landscape-design business, and now he is installing and managing a vineyard in Aptos, Calif.

'95 Joanna ESPIRITU-Moriwaki is working on a master's degree in public administration at the College of Notre Dame in Belmont, Calif., while working full time as a sales account executive at Aetna U.S. Healthcare. **Rachel Marie MEYER** is working on a Ph.D. in English at UC Irvine.

'96 Matthew SCHONBRUN earned a law degree in 1999 from Thomas M. Cooley Law School in Lansing, Michigan.

'98 Elizabeth COUNCE is in a master's program in library and in-

formation science at the University of North Texas. **Adolfo MERCADO** is the learning specialist for the Upward Bound Program at Yuba College; he works with 50 high school students preparing for university success. **Kirk PEARSON** has opened up a retro 1940s-style supper club, Aces, with live music seven nights a week, in Sacramento at Madison Avenue and I-80.

Angela THOMPSON is enjoying life back home in Sonoma County, learning drafting using AutoCAD, tutoring high school students in English, and playing in the community band.

'99 Lorelei BOWEN is working on her master's in library and information science at San Jose State University. **Nancy FOSTER** works as a research assistant for a pre-IPO start-up biotech company and is a waitress at one of the top 100 restaurants in the Bay Area.

Oakes College

'77 Angela BEAN runs her own immigration law firm; she and her partner, Heidi, have been together for 18 years and have two children.

'78 Henry SPILLER recently returned from West Java, Indonesia, where he conducted research into Sundanese music and dance with support from a Fulbright Fellowship; he is completing a Ph.D. in music at UC Berkeley.

'79 Francisco PONCE received his Ph.D. in 1987 from UC Santa Barbara and is a licensed psychologist; he's worked at Cabrillo College for the last 12 years.

'86 John SCHMUCK finished his Fulbright with a master's in visual arts at the Canberra School of Art and a very successful show at the Beaver Galleries in Canberra, Australia.

'88 Jennifer PHILLIPS Davids recently graduated with a Ph.D. in anthropology from Emory University; she and her husband, **Andrew DAVIDS** (Oakes '89), a rabbi, recently celebrated the birth of their third child. **Remelle BURTON Olson** and her husband, Terry Olson, adopted a nine-year-old girl, Ana, in May 2000; Remelle is a self-employed professional geologist; friends can reach her by e-mail at *rebo@wvdb.org*.

'89 Ernest BATREZ and his wife,

Marie GALLARATE (Stevenson '89), live in San Francisco and have one daughter, Alicia; he is working in payroll and accounting.

'90 Nadine GRETHE works for a major pharmaceutical company conducting clinical trials on new antibiotics; she is working on her master's in pharmacology and has a first-degree black belt in Kenpo karate. **Lisa KERR** is living on Cape Cod and is enrolled in a Ph.D. program at the University of Massachusetts, Boston.

'91 Troy RAMSEY is a Special Forces medic serving in Germany. **'92 Catherine PFISTER** lives in Berkeley and has a job as a social worker; she and her partner, Jonathan Cheung, are restoring their craftsman-style house and planning an extended stint of travel.

Edward ROMAN works for the County of Los Angeles and is an officer in his union; he recently negotiated a collective-bargaining agreement for about 2,000 members of his bargaining unit for a three-year term.

'94 Martin FJELD is working as an anthropologist; he also writes, plays drums, and races motocross. **Michelle JELINCH** is on leave from her job as an ESL instructor at Hartnell College in Salinas;

she gave birth to her first child, Alexander James, in February 2000. **Stephanie ROSEN** married **Lar MADER** (Oakes '91); she is in her last year at Jefferson Medical College in Philadelphia.

'97 Veronica RODRIGUEZ-Brown lives in Stockton, Calif., with her husband, Joseph, and daughter, Marisa; she is coordinator of Mariposa, a program that targets young at-risk Latinas, and she is a health educator for incarcerated youth.

'99 Holly ALDERMAN is working toward a single-subject teaching credential in art and an M.A. in education with an emphasis in art; she is also an avid surfer. **James JOLLIFF** is teaching wood shop at Saratoga High School.

College Eight

'78 Mary COHEN Merritt is chairman of the Newhall Redevelopment Committee in Santa Clarita, Calif. **Sharon SUSSMAN** trains animators in

2-D and 3-D digital effects and digital painting at DreamWorks Feature Animation.

'80 Donn HURD is self-employed as a web-site designer and site administrator.

'81 E. Katherine MILLER is an associate professor of biology at the University of Wisconsin–River Falls, where she is doing research on mRNA expression in the brain of three HSP70 gene family members. **David SCHNEIDER** is working in portfolio management in San Francisco.

'85 Colleen Kelly CUFFE is working for the California Coastal Commission in the Central Coast District Office in Santa Cruz.

Christina HARDY is a doctoral student in the Philosophy and Religion Department at the California Institute of Integral Studies in San Francisco. **Carl Peter MUTTERSACH** is a practicing civil engineer; in January 2001 he planned to make his ninth trip to the Philippines, where he engineers houses and other buildings for the urban poor. **Michael VAN ALTENA** enjoyed his first winter in Idaho, cross-country skiing, brewing beer, and working too many hours.

'86 Hugh CHAPPELLE was planning to move to Flowers Vineyard and Winery on the Sonoma coast in August 2000 as a winemaker. **Brian FITZGERALD** received a master's degree in public health and is a hospital administrator in southern California. **Heather RASNICK** is an art director and set decorator for Sony Studios' *Wheel of Fortune*;

she and her husband, Steve, were expecting a baby in spring 2000. **Janet RILOVICH** has her Ph.D. in psychology and is self-employed as director and owner of Del Mar Counseling in Aptos, Calif. **'88 Mysti RUBERT** won second place in the Austin Gay and Lesbian Film Festival for her screenplay "St. John"; she is working for BroadVision in Redwood City as a senior technical writer.

'89 Abby CHAVEZ is a consultant in edible landscaping and a novelist.

'91 Dennis SULLIVAN is living and working in Santa Monica as manager of production and acquisition for Pearson Television.

'95 Inemesit WILLIAMS is working at Chiron Corporation in Emeryville, Calif.

'96 Orson AGUILAR received a master's in public affairs and is now a program manager for the Greenlining Institute, a multiethnic public policy center in San Francisco. **Betty COWDERY** is a mental health worker for Merced County, and she's finishing up her master's in social work.

'98 Aureliano RODRIGUEZ is a first-year graduate student in city and regional planning at Cal Poly, San Luis Obispo.

'99 DeShawn FULLER is an educational adviser for the VOA Educational Talent Search Program, and she is working on her master's in counseling. **Julie PERRUZZI** is a social worker for the Economic Opportunity Commission, working with pregnant and parenting teens.

Graduate Studies

'79 Judith TOTMAN Parrish-Jones (Ph.D., Earth sciences) is now associate dean of the College of Science at the University of Arizona, as well as a professor of geosciences.

'80 Donald KAIPER (Ph.D., history of consciousness) is a senior instructor in the Social Sciences Department at Los Medanos Community College in Pittsburg, Calif., where he chairs the General Education Implementation Committee and is involved in curriculum development in the area of political and social thought.

'83 Lawrence BOUTON (M.S., applied economics) has worked at the World Bank for 13 years, encouraging the growth of global capitalism; he and his wife of 15 years have three boys. **James YOUNG** (Ph.D., literature) is chair of the Department of Judaic and Near Eastern Studies at the University of Massachusetts, Amherst, with a new book, *At Memory's Edge* (Yale Univ. Press, 2000); he and his wife, Lori Friedman, have two children.

'86 Edwin LIDDLE (M.A., sociology) is reading, skiing, and helping to make the world a better place.

'93 Gary FISHER (Ph.D., chemistry) is a professor of chemistry at De Anza College, where he is working on the design of the new chemistry/biology building; many of his students are now distinguished undergrads at UCSC, doing research with Professor Bakthan Singaram.

'95 Michael POOLE (Ph.D., biology) leads a research program on wild dolphins and whales in French Polynesia; the program is part of a biological station associated with the University of Perpignan in France; his research is featured on the Discovery Channel and *Animal Planet* as well as in two documentaries, *The Ocean's Acrobats—Spinner Dolphins* and *Shark Central: The Secrets of Rangiroa Atoll*.

'96 Ana CARBONELL (Ph.D., literature) is raising her two-year-old and was expecting a second; she is also working as an English instructor at Los Medanos Community College teaching composition and Chicano literature.

'97 Sandra PACHECO (Ph.D., psychology) is a professor of psychology at CSU Monterey Bay, where she is preparing to host the first annual conference on critical psychology.

'98 Bruce FOSTER (M.A., music) is a member of Citywinds quintet in San Francisco and teaches on the faculty of the College of Notre Dame; he is performing with the West Bay Opera, Ensemble Monterey, and the Bayshore Lyric Opera.

'99 Sanda BAILUND-VANA (M.A., education) is teaching seventh graders in San Ysidro, Calif.; she hopes to relocate back to the Santa Cruz area and teach in Watsonville. **Marielka Van Tilburg KLINE** (M.A., education) and her husband, Matt Kline, with assistance from a Mana Foundation grant, have created a web site and a lizard character named Monty to follow their travels and act as a tour guide for children exploring the world; Marielka, Matt, and Monty are now on a six-month trip to Greece, Nepal, Kenya, Vietnam, and the Cook Islands. **Rafael RAMIREZ** (M.A., education) is a third-grade bilingual teacher at Ohlone Elementary School in Watsonville; he loves his job and describes his first year of teaching as "an incredible learning experience."

In Memoriam

Neal BEUTLER (Cowell '76) died suddenly of heart disease in June 2000 in Los Angeles.

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