when **Nano** meets **Bio**

An interdisciplinary team develops tiny technology with big biomedical potential

**ALSO:** UCSC’s acting chancellor...silent earthquakes...a retired professor’s gift...an alumnus’s Iraq documentary...and more
Our Acting Chancellor

George Blumenthal, appointed after Denice Denton’s death, is committed to keeping UCSC on an upward trajectory.

When Nano Meets Bio

Engineer Holger Schmidt is working with other faculty to develop sensor technology with biomedical applications.

Jazz Detective

Photographer Lewis Watts is shedding light on a chapter of San Francisco’s past—the jazz scene in the Fillmore District.

Death on the Border

Anthropology grad student Chelsey Ann Juarez is bringing closure to Mexican families whose loved ones perish crossing the U.S. border.

Also in this issue

Campus Update .................................................................................................................. 1
Flights of Fancy .................................................................................................................. 14
Listening for Silent Earthquakes ....................................................................................... 16
Embedded ............................................................................................................................ 20
Paving the Road to Graduate School .................................................................................. 21
Alumni News ......................................................................................................................... 24
Alumni Notes ......................................................................................................................... 26
George Blumenthal named acting chancellor of UC Santa Cruz

Acting Chancellor George Blumenthal

Appointee has been on UCSC faculty since 1972

George R. Blumenthal has been appointed the campus’s acting chancellor, assuming the responsibilities of Denice Denton, who died in June. Blumenthal is expected to serve as acting chancellor for much or all of the 2006–07 academic year, UC President Robert C. Dynes said. A national search for the late chancellor’s permanent successor will be conducted over that period of time.

“George is respected throughout the university, and he has more than 30 years of deep working knowledge of the Santa Cruz campus,” Dynes said. Blumenthal, 60, has been a member of the UCSC faculty since 1972. He has chaired the Astronomy and Astrophysics Department and the Santa Cruz Division of the Academic Senate. In 2004–05 he served as chair of the UC systemwide Academic Senate. In 2006 he was faculty representative to the Board of Regents for the years 2003–05.

“This appointment is difficult because it has come about through such a tragic circumstance,” Blumenthal said. “But I have enormous respect for the faculty, staff, and students of UC Santa Cruz, and I am honored to assume this responsibility. ’’Over the past decade, UCSC has been on a positive trajectory, moving upward among the top tier of our nation’s universities. I am determined to continue that momentum. ’’

Blumenthal received a B.S. degree from the University of Wisconsin-Milwaukee and a Ph.D. in physics from UC San Diego. The research of Blumenthal, a theoretical astrophysicist, encompasses several broad areas, including the nature of the dark matter that constitutes most of the mass in the universe, the origin of galaxies and other large structures in the universe, and the structure of active galactic nuclei such as quasars.

Acting Chancellor outlines his priorities

On his first day working in the Office of the Chancellor in mid-July, George Blumenthal issued the following statement:

Our primary mission as an institution is to serve the state of California through teaching, research, and public service. Therefore, the priorities on which I will focus include:

Recruiting and retaining the outstanding faculty, staff, and students that characterize our campus;

Building on our academic strengths as we refine and implement our academic plan;

Expanding graduate programs and enrollments, and considering the creation of additional professional schools;

Maintaining our distinction and achievements as an outstanding undergraduate institution;

Ensuring diversity among all segments of the university;

Building positive relationships with the local community and community leaders; and

Spreading the word about our campus’s distinctions to various groups around the state and the country.

George Blumenthal, Acting Chancellor, UC Santa Cruz

UC Santa Cruz has been on a positive trajectory, moving upward among the top tier of our nation’s universities. I am determined to continue that momentum.

—Acting Chancellor George Blumenthal

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Seven faculty members and 13 graduate teaching assistants who have demonstrated “exemplary and inspiring teaching” have received top honors from UCSC’s Academic Senate. The 2005–06 Excellence in Teaching Awards were presented by the late chancellor Denice D. Denton (from right) and Committee on Teaching chair Charles McKeown (far left) at University Center at the end of the academic year. Also pictured are the faculty winners (l–r): Ruth Hoffman, Annemarie Pedrotti, Hildy Schwartz, Ana Maria Seara, John Isaktion, Dean Mathiowetz, and Martin Berger.

Prestigious academies select UCSC faculty

Two UCSC faculty members were elected to the National Academy of Sciences, and three are among the new fellows of the American Academy of Arts and Sciences.

David Hauser (biomolecular engineering) and Stan Woosley (astrophysics and astrophysics) are among 72 new members elected to the National Academy of Sciences. The three faculty members elected to the American Academy of Arts and Sciences are Hauser, Harry Berger Jr. (English literature/history of art and visual culture), and Harold Widom (mathematics).

Hauser, a Howard Hughes Medical Institute Investigator, directs the Center for Biomolecular Science and Engineering at UCSC and is scientific codirector of the California Institute for Quantitative Biomedical Research. Woosley, a theoretical astrophysicist, is a leading authority in supernova science and the most violent explosions in the universe. He directs the UCSC-based Center for Supernova Research, funded by the Department of Energy.

Berger was recognized for his contributions to literary criticism. A UCSC founding faculty member, he is known for an interdisciplinary approach extending past academic boundaries.

Widom has made contributions in an area of math called random matrix theory. His work with Craig Tracy of UC Davis led to the discovery of a new class of functions called Tracy-Widom distributions.

Honored: David Hauser, Stan Woosley, Harry Berger Jr., and Harold Widom

Economics undergrad wins scholarship to fight TB in India

Like his grandfather, Saurabh Mishra is a visionary. Mishra, a senior in economics, wants to raise public awareness about tuberculosis (TB) and provide treatment to at least 10,000 sufferers in his native India.

With a $10,000 scholarship from the Donald A. Strauss Public Service Scholarship Foundation, Mishra is organizing a fund-raising drive that will help him launch a major public health campaign in the Bihar region of India. Mishra’s work build on the legacy of his grandfather, who opened a TB sanatorium in 1951. To date, the 100-bed facility has treated more than 80,000 people.

“In 1950, my grandfather left the luxuries of the United States for one of the poorest areas in India because he had this vision 50 years ago of eradicating tuberculosis,” said Mishra. “But TB is still a problem. It is inspiring to me to see all his work and try to complete his vision.” Each year, the Strauss Scholarship fund at least 14 public-service projects proposed by California college juniors.

BANKEE MISHRA, DANA PRIEST, AND SAKSHAM MISHRA

Another UCSC grad, Dana Priest, receives Pulitzer Prize

Dana Priest, who visited UC Santa Cruz in March to accept the Division of Social Sciences’ first Distinguished Alumni Award, has received a 2006 Pulitzer Prize.

Priest, who graduated from UCSC (Merrill College) in 1981 with a bachelor’s in politics, received journalism’s highest honor in the category of “beat reporting.”

A Washington Post reporter, Priest was recognized “for her persistent, painstaking reports on secret ‘black site’ prisons and other controversial features of the government’s counterterrorism campaign.” The prize includes a $10,000 award.

Priest is the fifth UCSC graduate to receive a Pulitzer, following Hector Tobar (1992), Laurie Garrett (1996), Annie Wells (1997), and Martha Mendossa (2000).

Dana Priest lectured on “The CIA’s Secret War” during her visit to UCSC in March.

ECONOMICS UNDERGRAD WINS SCHOLARSHIP TO FIGHT TB IN INDIA

Saurabh Mishra, who accepted the Strauss Public Service Scholarship in Fall 2005, visits UC Santa Cruz each year to lecture to students and tell his story of TB in India.

JENNIFER MCGUINNESS/UCSC REVIEW
UCSC creates new major in computer game design

UCSC has approved a new major in computer game design, the first of its kind in the UC system. The new major, leading to a B.S. degree, provides students with a rigorous background in the technical, artistic, and narrative elements of creating interactive computer games.

“We are pleased to be able to offer this new degree program, which provides a unique combination of technical and artistic training,” said Ira Pohl, professor and chair of computer science in the Baskin School of Engineering.

The Department of Computer Science will administer the new interdisciplinary program, which will also involve faculty in the Department of Film and Digital Media in UCSC’s Arts Division. Students are able to enroll in the new major beginning this fall.

“Millions now play massively multiplayer online games, which constitute a new cultural force—a new medium. Digital media courses will provide students with the tools they need to understand this cultural transformation in conjunction with its technological and artistic possibilities,” said Warren Sack, assistant professor of film and digital media.

A highlight of the major is a yearlong game design project in which students work in teams to develop and polish a substantial video game. The campus is creating a new instructional laboratory for computer game design to support these projects.

Still teaching, UCSC’s pioneers honored for their service

 Tradition was heralded with four lectures at a May 19 Academic Senate celebration honoring 22 campus pioneers.

The pioneers—professors who are still teaching today and who were hired before July 1, 1970—recalled a smaller, vibrant, and growing campus community in which interests were wide and responsibilities wavered.

“In those days, the scientists, the social scientists, the humanities in the colleges talked to each other and enjoyed each other’s company,” remembered literature professor Murray Baumgarten, hired in 1966.

“It was a great combination across disciplines, across international boundaries,” he said.

Economics professor David Kaun, also hired in 1966, recalled that “we didn’t just speak to one another, we spoke to each other. We said what we wanted to say with a little bit of humor.”

Baumgarten and Kaun were joined by anthropology professor Adrienne Zihlman (1967) and Earth sciences professor Gary Griggs (1968) in reminiscing with their fellow pioneers and colleagues who had gathered at University Center for a reception after the final Academic Senate meeting of the term.

The four speakers were selected from the 22 to speak on behalf of their fellow pioneers.

Academic Senate Chair Faye Crosby and UCSC’s late chancellor Denice Denton presented each pioneer with a plaque.

“Tribute and Grace are characteristics in Paucity, a computer game developed by Michael Mateas, who will be teaching students in UCSC’s new program.

New deans lead three academic divisions

UCSC has appointed three new deans of academic divisions: Stephen Thorsett (physical and biological sciences), George Van Den Abbeele (humanities), and Sheldon Kamieniecki (social sciences).

“UC Santa Cruz is a wonderful exception in today’s higher education—a distinguished research university that consistently maintains a high premium on learning for its own sake, whether through classroom, teaching or scholarly inquiry,” Van Den Abbeele said.

Kamieniecki, who has been a professor of political science at the University of Southern California, specializes in environmental policy, elections, voting behavior, and public opinion.

“I look forward to helping raise even higher the national stature of the departments, research centers, and programs of the division,” said Kamieniecki.

Study documents marathon migrations of sooty shearwaters

Every summer, millions of sooty shearwaters leave the coast of California, their huge flocks astonishing visitors who may have trouble grasping that the dark swarming clouds over the water consist of seabirds.

Scientists have long known that sooty shearwaters breed in New Zealand and Chile and migrate to feeding grounds in the Northern Hemisphere. But the details of this remarkable migratory journey are only now emerging from a study using electronic tracking tags to follow individual birds.

The flights of sooty shearwaters documented in this new study represent the longest animal migration routes ever recorded using electronic tracking technology: around 65,000 kilometers (39,000 miles). Taking advantage of prevailing winds along different parts of the migration route, the birds trace giant figure eights over the Pacific, said Scott Shaffer, a UCSC research biologist and first author of a paper describing the findings.

The paper was published in Proceedings of the National Academy of Sciences.

Shaffer worked with an international team of scientists from UCSC and other institutions in the United States, New Zealand, and France.

Support for the sooty shearwater study was provided by the Gordon and Betty Moore Foundation, the David and Lucile Packard Foundation, and the National Science Foundation.

UCSC receives gift of Brett Weston photos

UCSC has received a donation of over 200 photographs by acclaimed American photographer Brett Weston (1911–1993), valued at more than $1 million. The photographs are a gift from Oklahoma collector Charlie Keene, who acquired the Brett Weston archive in 1996 and describes Weston as “one of the true American masters of photography.”

The gift enhances the university’s substantial holdings of contemporary photography and greatly expands in photographic collection of the Central Coast’s dynastic Weston family. The University Library’s Special Collections photo holdings were initiated at UCSC in the late 1960s with a donation of more than 800 project prints by Edward Weston, Brett’s father.

NSF funds research on ‘informal science education’

F or many parents, taking the kids to the aquarium or a hands-on science museum combines fun and learning. “Museums make science accessible and engaging,” says Doris Ash, an assistant professor of education at UCSC. “Visitors sometimes don’t recognize they’re doing science, but they are.”

Called “informal science education,” the learning that takes place at aquaria, zoos, and natural history museums enriches classroom learning and engages people in ways that schools sometimes can’t. Such venues have become laboratories for Ash and other researchers eager to gauge the impact of museums on the learning process.

Ash recently received a $1.8 million grant from the National Science Foundation to conduct a five-year study of informal science education with Judith Lombana, vice president of research and institutional development at the Museum of Science & Industry (MOSI) in Tampa, Florida.

“There’s value in real objects and living things,” says Ash. “It enhances the quality of learning in ways we don’t even understand.” A trained biologist and former classroom teacher, Ash is especially interested in the impact of informal science learning on “nontraditional” visitors, including the poor and those with limited or no English skills.

Students at the Seymour Marine Discovery Center have a chance for hands-on investigation of sea creatures.
UCSC receives gift to support Hindi/Urdu language program

A consortium of donors has committed to funding Hindi/Urdu language courses at UCSC through spring of 2010. The combined gifts in support of the program total $75,000 and will enable the university to provide courses that would otherwise be eliminated due to budget cuts.

The gift was initiated by Silicon Valley entrepreneurs Kamil and Talat Hasan, who put together a group of 15 donors who have each committed $1,000 a year for the next five years to support the language classes.

Kamil Hasan noted that the Hindi/Urdu language program is the anchor for UCSC’s South Asia initiative—a project established in 1999 to create an enduring resource for understanding the region and its cultures. “History, economics, literature, music—all depend on knowledge of these languages,” he said.

The addition of second-year Hindi/Urdu courses provides the essential language preparation necessary for UCSC students who plan to continue their education in graduate programs.

Funding for the classes initially began in January, and two UCSC students have already benefited from the generosity of the donors. Maia Ramnath, a graduate student in history, and Max Bruce, a 2005 graduate in philosophy, were awarded fellowships to study the Urdu language at the American Institute of Indian Studies program in India, after completing two years of Hindi/Urdu study at UCSC.

In Memoriam

Denise D. Denton, a trailblazing engineer who broke through numerous barriers in her academic career to become chancellor of the University of California, Santa Cruz, died June 24 in San Francisco.

Denton took the helm at UC Santa Cruz in February 2005 after serving nine years as the dean of the College of Engineering at the University of Washington in Seattle—the first woman to hold the post at a top research institution. It was one of many “firsts” Denton acquired throughout her career, and she became a powerful role model and mentor for women and minorities in science and higher education.

An accomplished electrical engineer who held three patents, Denton earned a Ph.D. and three other engineering degrees from the Massachusetts Institute of Technology. One of four children raised by a single mother in Texas, Denton discovered her passion for science and math during a high school summer program. That life-transforming experience fueled her passion for science and math during a high school summer program.

As he prepared to bestow the President’s Medal during Denton’s November 2005 investiture ceremony at UCSC, Dykes called Denton “a trailblazer in pursuit of equity and multiculturalism.” At UCSC, where she served for 16 months, Denton was remembered by Campus Provost and Executive Vice Chancellor David S. Kliger for her dedication “to opening doors for countless young people, particularly for women and minorities who wanted to pursue careers in engineering and science.”

“She led this campus with clear statements of the importance of education in transforming lives and in creating opportunities for all,” said Kliger.

“She, herself, had lived that experience, rising from modest means to achieve with distinction at every stage in her life.”

Student leaders hailed Denton’s openness and advocacy. “She was at the forefront of the UC Sweatshop Free Campaign, and showed her commitment to diversity by providing funding for student-initiated outreach programs,” wrote representatives of the UCSC Student Union Assembly, Graduate Student Association, and UC Student Association.

To make a memorial gift, please use the enclosed envelope or go to: www.ucsc.edu/administration/denise_denton

Engineering undergrads inspire high schoolers

The basic school of Engineering hosted about 100 students from San Jose area high schools for a week of campus tours and workshops last spring. Teams of undergraduates organized and ran the workshops, which used fun and challenging projects to convey different aspects of engineering.

The “stomomous” workshop involved a mobile robot the students had to program to make its way through a maze. The “clay building” workshop involved constructing a tower out of clay and toothpicks. The projects were designed to inspire the students and get them interested in studying engineering and pursuing careers in science and technology.

“The kids absolutely loved it,” said Young Kim, undergraduate outreach coordinator for the engineering school.

Two Antarctica sites named in honor of UCSC biologists

Costa Spur and Terrie Bluff, once nameless features of the austere Antarctic landscape, have been named in honor of Daniel Costa and Terrie Williams, UCSC professors of ecology and evolutionary biology. Both scientists have done extensive field research on marine mammals in Antarctica.

The U.S. Board on Geographic Names approved the names last year, but Costa and Williams only recently found out about the honor when they received official letters and photos of the sites.

Costa Spur, Antarctica, is officially described as a “prominent spur located 4 miles southwest of Qutat Head, Danell Peninsula.”

Bluff, named in honor of UCSC professor Daniel Costa.

Borchgrevink Coast. The spur descends eastward to the Ross Sea and marks the southern extent of Maudtche Cirque.”

Costa studied seals at McMurdo Sound, South Georgia, and Livingston Island for seven field seasons starting in 1978.

On the side of Mr. Terror overlooking a large penguin rookery, “Terrie Bluff is a rock bluff that rises to 1,000 meters in height. It is located 1.5 miles south-southeast of Aisley Peak, Kyle Hills on Ross Island.”

Williams was a U.S. Antarctic Program co-principal investigator of hunting behavior of free-ranging Weddell seals in McMurdo Sound sea ice areas for several seasons between 1984 and 2002.

higher education nationally, she became an outspoken advocate for diversity in academia. “Denton was an accomplished and passionate scholar whose life and work demonstrated a deep commitment to public service and to improving opportunity for the disadvantaged and underrepresented,” said UC President Robert C. Dynes.

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when Nano meets Bio

An interdisciplinary team of UCSC scientists is developing a tiny tool to analyze disease organisms one molecule at a time.

The 'Nano' side of the team: Electrical engineer Holger Schmidt and graduate students Mikhail Rudenko (left) and Dongliang Yin (right) in Schmidt's optical lab.

The 'Bio' side of the team: Biochemist David Deamer and molecular biologist Harry Noller.

The Technology: A prototype of Schmidt’s dime-sized sensor device integrates two fluid reservoirs, microfluidic channels, and integrating optical waveguides.

The Target: The sensor will be used to study the dynamics of the ribosome, a complex biomolecular machine that manufactures proteins in living cells.

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Most people know San Francisco’s Fillmore District because of its historic auditorium, immortalized by legendary rock promoter Bill Graham in the late 1960s. But long before the neighborhood attracted bands like the Grateful Dead and Jefferson Airplane, the Fillmore was home to a booming jazz scene—a community so laden with clubs and virtuoso players in the 1940s and ’50s, it became known as the Harlem of the West.

An intrepid art professor uncovers the lost history of San Francisco’s Fillmore jazz era

By Scott Rappaport

With more than two-dozen venues located within one square mile, it was not unusual to spot jazz greats like Billie Holiday, John Coltrane, or Dexter Gordon hanging out or taking the stage to jam with local musicians after returning from their gigs “for whites only” in downtown Bay Area clubs.

The San Francisco Redevelopment Agency tore down the neighborhood in the mid-1960s—ostensibly to improve it—and the community literally vanished. But a new book Harlem of the West: The San Francisco Fillmore Jazz Era, coauthored by UC Santa Cruz associate professor of art Lewis Watts, unearths the community’s glorious past. Filled with rare archival photographs of such jazz legends as Dizzy Gillespie, Duke Ellington, Johnny Mathis, and Charlie Parker—plus accounts from neighborhood residents and musicians who were there at its peak—the book celebrates a nearly forgotten chapter in jazz and African American history on the West Coast.

“This is the first time that this history has seen the light of day,” observes Watts, who spent more than a decade collecting and painstakingly restoring more than 200 photos for the book. “Any physical trace of that community is long gone.”

The spark for the book was ignited in 1990 when Watts was working on a photography project in the Fillmore District—located between the city’s Haight District and Pacific Heights. As he explored the neighborhood, Watts came upon Red Powell’s Shine Parlour, across the street from the Fillmore Auditorium.

“If I wandered into Red’s shoeshine shop, and on the walls were all these great photos of people like Martin Luther King, Bobby Kennedy, Duke Ellington, and Ray Charles,” recalls Watts. “I asked Red if I could photograph his wall. But he was having none of it—he basically threw me out of his shop.”

When Watts returned to Red’s only a few months later, the shop was empty, with no sign of either Red or the photographs. Although he feared that the collection was lost for good, Watts continued to inquire about the photos. Finally in 1996, while doing additional research for the city’s redevelopment agency, Watts asked a barber working across the street from Red’s if he had any idea where the priceless photos might be. “I was thrilled by his response,” says Watts. “He told me they were in his back room.”

It turned out that Red had suffered a fatal stroke just a few weeks after Watts had visited. The landlord had closed up the store and took everything off the walls. But as he was preparing to dump it all in the trash, the barber—Reggie Pettus—had rescued all of the photos and memorabilia from certain oblivion. Pettus kindly allowed Watts access to the archive.

“There were a lot of snapshots and 8-by-10 glossy photos pinned on walls,” says Pettus, who had managed the shop for a decade before it was torn down. “It was like nothing I’ve ever seen before. There were all these jazz players and famous people like Martin Luther King, Bobby Kennedy, Duke Ellington, and Ray Charles. There were even photos of the Fillmore Auditorium.”

Pettus had saved the photographs from Red’s shop and shared them with Watts. The two collaborated to create a new book, Harlem of the West: The San Francisco Fillmore Jazz Era, which celebrates the rich history of the Fillmore neighborhood and its impact on jazz and African American culture.
Watts. “Some were framed and mounted, but a lot more were stuffed in Safeway bags and in boxes. Shoeshine parlors, barbershops, and beauty parlors have traditionally been the historical archives of the African American community.”

Watts arduously took on the process of digitally restoring the images, many of which were damaged and faded with marks and waterstains, or had corners ripped off. “The idea was to bring back the detail and represent the intent of the photographs,” explains Watts. “That was my responsibility to the original photographers.”

Watts used the photo collection for his agency report on the Fillmore neighborhood and also curated an exhibition of them that was displayed outside the City Hall Office of then–San Francisco mayor Willie Brown, and later in the Arts Commission Gallery across the street. This generated even more photos and memorabilia.

“When I first found Red’s photos, there were no labels, no identification,” says Watts. “But as we exhibited them in the community, we built the history. People began sharing their stories, and we ended up discovering other photographers or their families, as well as their photographs.”

By 1998, Watts had joined forces with coauthor Elizabeth Pepin, whom he met when she was conducting research for a PBS documentary on the history of the Fillmore District. Pepin had been employed by Bill Graham Presents as manager and historian of the Fillmore Auditorium in the mid-1980s. Since both Watts and Pepin were making plans to create a book about the Fillmore community, they decided to collaborate on *Harlem of the West.*

“Elizabeth primarily handled interviews and test, and I handled obtaining, restoring, and curating the photos,” says Watts, who joined the UC Santa Cruz faculty in 2001, halfway through the 10-year project.

The book was published in January by Chronicle Books and celebrated with an exhibition, reception, and concert in February at the San Francisco Performing Arts Library & Museum. Performing at the event was the Fillmore Jazz Preservation Big Band, a 20-piece orchestra featuring many top Bay Area jazz musicians under the direction of UC Santa Cruz director of jazz studies Karlton Hester.

*Harlem of the West* captures a joyful and momentous era in the country’s African American musical history. It serves as a reflection of a magical place at a remarkable time. And, as Watts optimistically notes: “Knowledge of the past can hopefully lead to a renaissance in the future.”
Retired mathematics professor Gerhard Ringel gives his world-class butterfly collection to UCSC

By Jennifer McNulty

The treasures inside each wooden case are dazzling: iridescent green, shimmering turquoise, velvety orange, and sprays of teeny pink speckles compete for the eye.

Case after case is filled with butterflies and moths of every shape and size from all over the world. Each specimen is perfect, mounted with precision by a world-class collector.

Gerhard Ringel has collected butterflies for most of his 86 years. The cases that still fill cabinets of his Santa Cruz home are the leftovers, duplicates of specimens he donated to the UCSC Museum of Natural History Collections.

It was the logical home for a museum-quality collection that could easily have landed in New York or Washington, D.C. “He prepared his collection with German precision, and because he reared so many of the butterflies from the egg or caterpillar stage, they are perfect—no scales are lost, there are no bird bites,” says Tonya Haff, curator of the UCSC Museum of Natural History Collections, housed in the Environmental Studies Department.

The collection’s value to scientists is enhanced by the data Ringel carefully recorded regarding where and when specimens were gathered. “It’s an amazing collection,” sighs Haff, who still marvels at the treasures inside each case.

In fact, the museum had to order handcrafted cabinets to accommodate Ringel’s 5,000-specimen collection.

Eighty years ago, as a boy in Czechoslovakia, Ringel loved butterflies and mathematics. Unfortunately, his teachers didn’t share his passions, and World War II interrupted his studies. He was taken prisoner just as the war was ending and spent four-and-a-half years in a Russian POW camp. Upon his release in 1949, he returned to the University of Bonn, where he earned a doctorate in mathematics and joined the faculty.

His research was solitary, and he longed for a colleague with whom to exchange ideas.

Twice he received invitations to work in the United States. The first time, he declined. “I spoke Czech, German, and Russian, but not English,” he explains. A year later, when an invitation came from Ted Youngs, a professor of mathematics at UC Santa Cruz, Ringel accepted, eager to learn English to facilitate collaboration.

Ringel is credited with advancing the famous “map problem,” which vexed the world’s greatest mathematicians for decades: the development of a mathematical theorem to prove that only four colors are needed to create a map with no two adjacent countries the same color. A mathematical brainteaser of monumental proportions, the four-color theorem was the first to be proved using a computer. Ringel brought the same persistence and perfectionism to his passion for butterflies.

Every chance they got, Ringel and his wife, Isolde, traveled the world in pursuit of butterflies—South America, Bali, Jamaica, Africa, New Zealand. Their architect literally designed the Ringel home around built-in butterfly-storage cabinets. And although Ringel caught many specimens in nets, he preferred to hand-rear them from eggs in his garage, where perfection was guaranteed.

These days, well into his retirement, Ringel has slowed his pace, but he still participates in a weekly chess club. “Timed chess,” interjects Haff. And yes, he concedes humbly, his blue eyes twinkling, he’s better than most of his opponents.

Ringel says butterflies brought joy and balance to his life, a gift of nature that complemented his intellectual interests. Now his gift will benefit students, researchers, and illustrators for generations to come.
Costa Rica’s Nicoya Peninsula is known for good surf and beautiful beaches. Among seismologists, however, it is better known for earthquakes. The peninsula lies directly over an active fault zone that generated major earthquakes in 1853, 1900, and 1950. The next big one could hit any day.

Or not.

Susan Schwartz, director of the Keck Seismological Laboratory at UC Santa Cruz, and her collaborators have detected a different kind of movement on the Nicoya Peninsula—a slipping of the fault that doesn’t generate seismic energy. It’s the same fault motion as an earthquake, but it happens so slowly that no ground-shaking occurs. Known as a “silent earthquake” or “slow slip event,” this phenomenon was first observed in Japan and off the coast of Washington and southern Canada. It can only be detected with networks of modern instrumentation that use the Global Positioning System (GPS) to obtain highly accurate measurements of movements of the Earth’s crust over time.

A slow slip event may reduce the risk of a major earthquake by relieving stress on a fault, or it may increase the risk by adding stress to an adjacent fault segment that remains locked up. It all depends on the details of what’s going on deep beneath the surface of the Earth.

“Most subduction zones with good networks of modern instrumentation have now observed this slow slip mode, but we don’t really understand it at all yet,” says Schwartz, a professor of Earth and planetary sciences. “We need to know a lot more about where it’s happening in order to understand its implications for earthquake hazards.”

Schwartz’s team detected the Costa Rican event in data from a limited array of three GPS stations installed several years ago by Japanese researchers. Now, with funding from the National Science Foundation, Schwartz and her collaborators are determined to learn more about what’s going on beneath the Nicoya Peninsula. She is working with Timothy Dixon of the University of Miami, Costa Rican scientists Marino Protti and Victor Gonzalez, and UCSC instrument specialist Dan Sampson to establish an extensive network of seismic and GPS monitoring stations in the area.

With this project, Schwartz is continuing a long tradition of UCSC involvement in earthquake and volcano research in Costa Rica. Protti, who earned his Ph.D. at UCSC, is one of three alumni affiliated with the country’s geophysical observatory, Observatorio Vulcanológico y Seismológico de Costa Rica, Universidad Nacional (OVSICORI-UNA).

Karen McNally, professor emerita of Earth and planetary sciences, led the team that helped establish OVSICORI-UNA in the 1980s and worked to develop the country’s program for the reduction of earthquake hazards. In 2004, she received the University Medal from Universidad de Costa Rica, Universidad Nacional (OVSICORI-UNA).

When you look at how fast the plates are moving with respect to each other, versus the subduction slab of the Cocos does not go down smoothly. It scrapes against the overriding plate, catching and locking up, pulling the edge of the Caribbean Plate down with it. When the fault finally breaks, the upper plate springs back up. In an earthquake, this takes place in seconds to minutes, whereas a slow slip event takes place over days or weeks.

At most subduction zones, the part of the plate boundary where earthquakes originate—the seismogenic zone—lies beneath the ocean. But in Costa Rica, the seismogenic zone runs right beneath the Nicoya Peninsula.

“It’s a perfect opportunity to study the seismogenic zone using a network of land-based instruments,” Schwartz says. Installing the instruments is a major undertaking, however, especially in a region where access is limited. Most of the roads on the Nicoya Peninsula are impassable during the summer rainy season. And the instruments have to be anchored in solid bedrock, which means a lot of digging.

Starting last year, Schwartz and her team have been making regular trips to the region, scouting locations and carefully installing GPS and seismic stations.

At the same time, they have been trying to educate the population of Nicoya about earthquake hazards. Protti, who has written a book about the peninsula, feels strongly that the area is overdue for a major earthquake. Nicoya is now being heavily developed for tourism, however, and not everyone is receptive to his message, Schwartz says.

“He is really trying to raise awareness of the risks, but it’s not something people like to hear about,” she says. Ultimately, the information the researchers gather from their network of monitoring stations will lead to better assessments of the region’s earthquake hazards, as well as a better understanding of subduction zones in general.

“We’ve known for a long time that when you look at how fast the plates are moving with respect to each other, versus how much slip occurs in earthquakes, it doesn’t match up. There’s a very large slip deficit,” Schwartz says. “But if we find that there are a lot of these slow slip events, it may mean the next earthquake is farther off than we had thought.”

Prior to transport, professor of Earth and planetary sciences Susan Schwartz and colleague Dan Sampson inspect and pack the GPS and seismographic monitoring instruments they will be installing in Costa Rica.
Death on the Border

A graduate student’s promising technique offers hope of closure for loved ones

By Jennifer McNulty

Chelelly Ann Juarez’s father was a young man when he crossed the border from Mexico into the United States. He was lucky: He survived. Today, her daughter devotes herself to helping the families of those who don’t.

Juarez, a doctoral candidate in forensic anthropology at UC Santa Cruz, is developing a method to help authorities identify the remains of those who perish on the border, anonymous and far from home.

Identifying the dead is a grim and largely thankless task. Few migrants carry identification, and the number who die is growing as the tragedy of lost lives is compounded by the fact that most families never learn the fate of their loved ones. She wants to change that.

Most who cross the border are Mexican—56 percent, compared to 24 percent from Central and South America. Mexicans who head for El Norte come primarily from the southern and central agricultural states of Jalisco, Michoacan, Guanajuato, Veracruz, and Oaxaca, where job opportunities are scarce. It turns out that variations in the soil chemistry of those states may shorten the path to identifying those who don’t survive.

Juarez has borrowed a technique from archaeologists to identify the “soil signatures” of individual regions. Just as archaeologists are able to match ceramic shards to their place of origin by analyzing the chemistry of soils, pottery, and glazes, Juarez hopes to match human remains to their place of birth by examining teeth. Strontium, an element similar to calcium, is absorbed by bones and teeth, providing a “signature” of the soil where a child spends his or her first years.

By collaborating with dental clinics that serve Mexican immigrants in northern California, Juarez has so far collected more than 50 donated teeth from volunteers. Patients provide essential biographical information, including their age, sex, and place of birth, and Juarez utilizes the latest technology to analyze the isotopic “signatures” of each tooth. That information is enabling her to build a database of soil profiles across Mexico.

The amount of variation in soil makeup will determine just how fine-grained her map will be. But the results look promising enough to have attracted the attention of Mexican officials when Juarez presented her work at the Binational Health Symposium in Salinas in 2004. Currently, the Mexican Consulate relies mostly on old photographs, sketches, and family descriptions when contacting medical examiners in border states on behalf of relatives searching for lost loved ones.

Juarez credits her father, the man who crossed the border in search of a better life 30 years ago, with encouraging her schooling. “Now a legal citizen living in California’s Central Valley, Juarez’s father is a mechanic. ‘He and my mom didn’t have any other kids,’” she says. “They got divorced when I was two years old.’” Juarez wears the mantle of high-achieving only child with ease.

After earning a graduate degree from UC Davis, Juarez spent a year analyzing artifacts and slave remains recovered from a former plantation in Louisiana. The experience hooked Juarez on forensic science—and brought her to UCSC to work with Alison Galloway, one of the leading forensic anthropologists in the country.

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Critical of immigration policies she believes have contributed to the rising death toll, Juarez is now preparing for law school. “As a forensic scientist, my job is to provide justice to the deceased,” says Juarez. “But I’ve realized I need to expand into the world of policy to make the kind of broader changes that are needed.”
Embedded

By Scott Rappaport

In the winter of 2004, UC Santa Cruz alumnus Ian Olds and a film colleague flew to the Middle East with the hope of shooting a behind-the-scenes documentary on the Iraq War. Two months later, they returned to the United States, armed with footage they would edit into an award-winning film that provides a rare glimpse into the days leading up to a violent insurrection in Falluja.

Built around surprisingly candid interviews with soldiers from the U.S. Army’s 82nd Airborne squad, Occupation: Dreamland captures the soldiers as they struggle to adhere to the code of conduct—and simply survive—in an often ambiguous and always lethal environment. That the film was shot just before the city was nearly destroyed in one of the bloodiest battles of the war, makes the documentary even more compelling. Occupation: Dreamland was released nationwide in 2005, screening in more than 20 cities to critical acclaim; it is still being shown in select theaters today, as well as on the Sundance cable television channel, and a DVD was released in March. New York Magazine noted that the film “recalls Stanley Kubrick’s Full Metal Jacket—except with real kids.”

Last spring, Olds and his codirector Garrett Scott were honored with a 2006 Independent Film Spirit Award in the “Truer than Fiction” category at a Santa Monica ceremony televised nationally the night before the Academy Awards.

Presented annually to an “emerging director of nonfiction features,” the award comes with an unrestricted grant of $25,000. “The film is an attempt to break through the wall between the American public and the war in Iraq,” says Olds, who received a bachelor’s degree in film/video and anthropology from UC Santa Cruz in 1998. “It provides a hole in that wall, a look in to get a better sense of the war.”

“Truer than Fiction” is part of “T ruer than Fiction” at a Santa Monica ceremony televised nationally the night before the Academy Awards. The filmmakers shot 130 hours of footage and Olds edited it down to a 79-minute documentary. Because they couldn’t get insurance in a war zone to rent gear, they purchased their own cameras.

All night vision footage was shot with a consumer camera—they borrowed night vision goggles from the soldiers and secured them to the camera with pieces of wood and duct tape. Olds says they just kept shooting footage because it was usually too dangerous or hectic to review the tapes along the way.

“When I first got there, I was very frightened,” notes Olds. “My first day I was at the site of a car bomb; it was a very gruesome scene. Another day, a mortar landed 100 feet from me. I went over and saw how the shrapnel tore into the walls and it was terrifying to see the ‘kill radius’ of the shrapnel—that kind of haunted me.”

“But it was also scary how quickly we got used to it,” Olds adds. “There was this weird adrenaline. It was almost dangerous because it made you act reckless. So we would look at how the soldiers acted to see how scared we should be.”

Tragically, after surviving the Iraq experience, codirector Garrett Scott died unexpectedly of a heart attack, two days before the Independent Spirit Awards show in March. Olds reacted by taking half the money they were awarded at the ceremony and using it to create a grant in Scott’s name to support independent documentary filmmakers. Olds then returned to Columbia University to successfully complete his M.F.A. degree in film.

Olds is planning a trip to Afghanistan this fall to shoot a new documentary, and he is also working on a script for a feature film centered around a hotel for journalists in Iraq. But it’s clear that Occupation: Dreamland represents more than a turning point in his filmmaking career.

“I didn’t know what to expect when I went to Iraq,” reflects Olds. “I had never been in a war zone—I’d never even been to the Middle East. And when I got back, I felt an overwhelming sense of futility for both the soldiers and the Iraqi people. But I also had more respect for the soldiers as individuals. I had always thought of the military as a machine, but I was struck by the fact it was just a bunch of guys who were trying to figure it out as they go along.”

“The film is an attempt to break through the wall between the American public and the war in Iraq. It provides a hole in that wall, a look in to get a better sense of the war.” — Ian Olds

Actors Willem Dafoe and Lili Taylor present Ian Olds (left) with a 2006 Independent Film Spirit Award, which includes an unrestricted grant of $25,000.
By Jennifer McNulty

Michael Eccleston is going to graduate school this fall. A devoted single father, Eccleston earned a bachelor’s degree in psychology from UC Santa Cruz in January and was prepared to put off graduate work until his 2-year-old son is older. But psychology professor Aída Hurtado recognized Eccleston’s talent and encouraged him, pointing out the advantages of starting his Ph.D. while his little boy is in preschool.

“I really wanted to go to graduate school, but I didn’t think I could because of my commitment to my son,” recalls Eccleston, who shares custody with his son’s mother, who lives 80 miles away. “Talking with Aída, I realized I could do it because I’d be in a position to relocate when he starts kindergarten. I’d be done with course work at that point.”

In one frenzied week, Eccleston wrote a statement of purpose, took the Graduate Record Examinations (GRE), and applied to UCSC’s doctoral program in social psychology. Eccleston aced the exams, was accepted, and received a generous fellowship to enroll this fall.

That conversation with Hurtado opened up a world of possibilities for Eccleston, and exchanges like it are happening more often at UC Santa Cruz as a result of the Chicano/Latino Research Center’s Undergraduate Research Apprenticeship Program (URAP). Under Hurtado’s direction, URAP pairs undergraduates with faculty mentors who encourage students to “think beyond the B.A.” The program gives participants an insider’s view of academic life with the aim of diversifying the next generation of professors.

Nominated by professors, students gain valuable research experience working several hours a week as paid assistants to their faculty mentors. They participate in skill-building workshops on topics like library research and applying to graduate school, and many attend academic conferences and professional meetings with their mentors. Professors receive small stipends, and a current Ph.D. student coordinates the program and serves as an influential role model.

Established in 2000 to help open the academic “pipeline” to Latinos, URAP is available to students interested in careers in cross-border studies of the Americas. It is “suggested and recommended but not required” that students come from underrepresented backgrounds, says Hurtado.

A small program, URAP has served only 67 students so far, and 15 are pursuing advanced degrees. The program also appears to have a profound impact on undergraduate success: URAP participants have a 100 percent graduation rate, compared to about 65 percent of Latino students campus-wide. “An unintended consequence of the contact with faculty and the coordinator is graduation,” says Hurtado. “Whatever hurdles students are facing, they come talk with us.”

Fernanda Coppel says URAP has been a lifeline as she’s struggled to find her place in higher education. Coppel says she “didn’t feel smart enough to go to college,” but a cousin urged her to apply, and URAP has sustained her. “No one in my family has gone to graduate school,” says Coppel, who was born in Mexico. A junior majoring in literature with a minor in theater arts, Coppel has embraced URAP’s goal of earning a Ph.D. “I really see the need for people of color in academia.”

Alma Martínez is Coppel’s mentor. An associate professor of theater arts performing on stage was “surreal,” recalls Coppel. “It was hard,” says Coppel of producing her own work. “Talking with Aída, I realized I had to struggle. It builds a form of communica­tion that reflects the diversity of the academy, and it can be a catalyst for even greater social change.”

Eccleston and Hurtado celebrate the conclusion of his undergraduate years.
Alumni Association News

Alumni Association Councilors, 2006–07

Cowell
Gregory Canellas ’80
Karen Rickard ’77, Vice President for External Affairs
Stevenson
David Breck ’69
Ante Evertz ’58, Vice President for External Affairs
Paul H. Moxon ’71
Joone Pettig ’69, Executive Vice President
Crown
Khoiri Bomberg Freeman ’83
Jamar Rios ’77
Rick Simpson ’73
Seyfa Verikken ’85
Merrill
Kari Douton ’75, Past President
Patrick R. A. Foote ’95, Vice President for Finance
Dominique Shabara ’79, President
Porter
Marc Douthit ’74
John Guthrie ’76
Bob Swain ’75
Kresge
Panada Koleh ’86
Paul D. Sieman ’76
Shane Taylor ’95
Oakes
Filomena Throndsen ’83, Vice President for Administration
Barry F. Wilson ’71
College Eight
Susan Brittich ’83
Aarón Coia ’94
Graduate Division
Eileen Moore Robinson ’84
Ex Officio
Rae J. Austin, Chair
Student Union Assembly
Gregory B. Blumenthal, Acting Chancellor
Caroline Christopherson, Executive Director
Fred Chadwick, Chair
Academic Senate
Beverly Yazer, President
Graduate Student Association

Mark your calendar for reunion weekend

College Alumni reunions planned April 28–29

C olleges, academic departments, and affinity groups of all kinds are planning receptions, panel discussions, and student mentoring opportunities for Banana Slug Spring Fair reunions, April 28–29. Among the events already planned are:

► 40th reunion for the Class of ’67—UCSC’s first 40th reunion
► Alumni Reunion Luncheon
► Alumni Reunion Wine Tasting
► Alumni Summer Bridge Program to hold first reunion

A reunion for participants in UCSC’s Summer Bridge Program will be held on April. Began in the 1980s, the program brings students from low-income and ethnic minority families, some the first in their family to attend college, to campus for five weeks prior to enrollment.

Now held during the academic year, Bridge helps students develop their math and writing skills, introduces them to university life and campus services, and forges lifelong friendships.

“The academic expectations were so intense that we ‘Bridgees’ were forced to bond,” recalls Peppermint faculty member Gregory Canellas (Cowell ’90), a member of the UCSC Alumni Council. “Twenty years after participating in the program, my closest friends are still those Bridgees.”

Among those invited to the reunion will be former staffers, including Michelle Handy (Oakes ’90), director of UCSC’s Educational Opportunity Programs (EOP), and Rosalde Cabrera, director of El Centro, UCSC’s Chicano Latino student resource center.

Alumni and friends support college funding

Former UCSC Alumni Association president Ken Doctor graduated from Merrill 35 years ago, just three years after the college was founded. His experience there made an enduring impression.

“The UCSC college system is absolutely unique,” he says. “The proximity to classes, faculty, and friends seeded the atmosphere with interaction and engagement.”

With leadership from Doctor and former UCSC Foundation President Ken Feingold (Cowell ’71), the Alumni Colleges Fund (ACF) was founded in 2003 to support and strengthen UCSC’s college programs. Since then, nearly 150 generous alumni, faculty, staff, parents, and others have donated $200,000 to the fund, which will be used to establish a permanent endowment at every college. Each donor gave $1,000 or more to purchase a personalized tile that will be prominently and permanently displayed at the donor’s college of choice.

The fund’s goal is 100 tiles, but donors for each college: A 6-by-6-inch tile recognizes a gift of $1,000, a 12-by-12-inch tile recognizes a gift of $5,000. Once more than 20 tiles have been donated to a college, a display area will be built.

To donate to the ACF, contact Jennifer Wood, director of development, Annual Fund, at (831) 459-2489, or jwood@ucsc.edu. Donations may also be made online at given.ucsc.edu. A “virtual tile wall” can be viewed at given.ucsc.edu/donors.

Alumni and friends support college funding

Banana Slug Spring Fair reunions planned April 28–29

At the All-Alumni Reunion Luncheon held during the April 2006 reunion weekend, California Alumni Association president John Laird (Stevenson ’72, center) shared a laugh with Dave Gross (Stevenson ’69) and Stephanie Wood Coleman (Merrill ’70) while looking at photos of students and faculty from the 1960s.

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83 Richard TURMAN is a professor emeritus at Columbia University and the founder of PRAXIS/Independent Art Teacher of the Year, she is teaching ceramics and jewelry at Gainey High School in Aurora, Colo., with husband, Michael SMITHAL. (Stevenson ’76), works for Quest and was honored twice in 2005 for top sales and service.

84 Shari ANDERSON Allison was a managing director at the Federal Mediation and Conciliation Service, was recently elected to join the board of the State Bar of California. She lives with her husband, Greg ALLISON (Stevenson ’83), and their son, Nathan, in Los Gatos, Calif.

86 Richard NUNES received a master’s degree in public health from Harvard University in 2001. He is currently a fellow in the Graduate School of Public Health at the University of Pittsburgh.

88 Robin DONOVAN’s new book, Canoeing Cuisine: Gourmet Recipes for the Great Outdoors, was published in May by Quadrangle Books (www.canoeingcuisine.com). She is a San Francisco-based freelance journalist specializing in the subjects of food, cooking, and travel.

91 Lisa TELLEWHAN and her husband, Bob TELLEWHAN, are proud to announce the birth of their baby girl, Lindsay Tellewhan, in January. The reports how two-thirds of households, is a new single dad to two sons, age 7 and 3 years old.

92 Daniel TERDMAN is a staff writer covering the culture of technology for CNET News.com and is living in San Francisco with his wife, Kathleen. He has an M.S. in sociology at Essex County College and is a professor emeritus of sociology at Columbia University Graduate School of the Arts. He recently joined the faculty of the University of California, San Diego at the University of Washington in 2005.

85 Adam's Clemency Project provides legal representation to people in California who have been wrongfully convicted and are serving a life sentence. He recently launched a new initiative, the Clemency Project, which aims to help people who are serving long sentences under California's complex and punitive laws. With the support of his wife, Donna, lives in Orinda, Calif.

Donna FELDMANN Marbach and Conciliation Service, was elected to the Board of Directors for the State Bar of California. She lives with her husband, Brian JOHNSONBAUGH (Cover ’01), their two children, true love of four years, Doug, and their three-year-old son, Josh.

89 Andrea VAN NOTE King is a professor of law at the University of California, Los Angeles, specializing in the subjects of family law and immigration. She lives with her husband, Greg, and their son, Nathan, in Los Gatos, Calif.

903 Stephen VINCEN TOPS his marriage to his good friend Allen Tryon in May, and he was getting a delightful daughter and son in their family; they will continue to live in Boston.

913 Adam's Clemency Project provides legal representation to people in California who have been wrongfully convicted and are serving a life sentence. He recently launched a new initiative, the Clemency Project, which aims to help people who are serving long sentences under California's complex and punitive laws. With the support of his wife, Donna, lives in Orinda, Calif.

914 Joan FITTING Scott’s latest book, The Haunting of Winchester, was published in 2005; he is an assistant professor of history at Western Carolina University. He is also an active member of the American Historical Association and a member of the North Carolina Historical Association. He has written a number of articles on the history of the Civil War and Reconstruction, and is currently working on a book about the role of women in the Civil War.

915 Bill ALLAYAUD, a private investigator, has won a Livingston Award for his work in the field of computer forensics. He lives in Orinda, Calif.

916 Ryan GABRIEL, a freelance journalist, has won a Livingston Award for his work in the field of computer forensics. He lives in Orinda, Calif.

917 Suzanne OLMSTED, professor of sociology at Contra Costa College, is a senior vice president at California Community Colleges. She has been with the college for more than two decades, and is currently a member of the Board of Trustees.

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919 Brian CHERNICKY owns a small business in the Bay Area and is married to his wife, skateboarding. He lives in Lawrence, Ma.

920 Carlos PAGÁN is a professor of history at the University of Minnesota, Twin Cities, specializing in the history of Latin America. He is also a resident artist in Antwerp, Belgium.

921 Ron KAPLAN received his Ph.D. in political science at the University of California, Berkeley. He is currently a professor of political science at the University of California, Berkeley.

922 Michael DRINKARD has edited an issue of the New Republic magazine. He is currently a resident artist in Antwerp, Belgium.

923 Andrea BERNASCONI McCrea has raised her two sons and continued her career and educational counseling services and offering a 50 percent discount for UCSC alumni (visit careercounsel.ucsc.edu).

924 Jonathan COMATOZO is the senior vice president of Business and Economic Development at the Aurora Theatre Company in Berkeley, California. He has been with the theatre for more than 10 years, specializing in the field of independent theater management. He lives with his husband, Greg, and their son, Nathan, in Los Gatos, Calif.

925 Joan FITTING Scott’s latest book, Becoming Memories, was published by Putnam in 2002; she has recently been named director of the University of California, Santa Cruz, and the Monterey Bay Area Children’s Museum.

926 Josh BOOK is the supervising editor of the interactive special timelapse tab and features editor at The San Diego Union-Tribune. He lives in San Diego with his wife and son, Adam, and daughter, Israel.

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Kress College

80 Seek SERXNER reports to all his friends from debate club that he is still a master debater.

84 Martha GRAHAM is a freelance writer and works in the Advertising Department at the Santa Cruz Sentinel; she married, has a daughter, and lives in the Santa Cruz Mountains.

190 Andre DOUMITT has been named director of business development for BAE Systems (formerly British Aerospace) in charge of integrated navigation and flight control systems for military and civilian customers in the U.S. and international markets; he lives with his wife, Isabel, and their two children in Culver City, Calif.

290 Janice ROHN is a master debater. Her friends from debate club that he is still a master debater.

UC Santa Cruz Review | Fall 2006
Matt Bromage, age 23

- B.S., Computer Engineering, UCSC, 2005
- Ph.D., Computer Engineering (anticipated 2008)
- Developer, SEA-LABS Wireless Sensor Network

Supported by:
- UCSC Center for the Dynamics and Evolution of the Land-Sea Interface Graduate Fellowship
- Friends of Long Marine Lab Research Award
- Ferd Ruth Award, Myers Oceanographic and Marine Biology Trust

Undergraduate Matt Bromage developed SEA-LABS, a device that tracks environmental changes that are killing the world’s coral reefs. Built at the request of UCSC biologist Donald Potts, Matt’s sensor enables scientists to monitor remote environments affordably, in real time. Student-support gifts from donors helped make Matt’s design and its real-world application possible.

The financial support Matt received expanded his educational opportunities—giving him the time, confidence, and encouragement to innovate. Now the recipient of a UCSC graduate fellowship, Matt plans to launch two SEA-LABS prototypes off the coast of Hawaii as part of his Ph.D. focus. Future applications for his device could include early detection of tsunami-sized waves and affordable habitat monitoring for developing nations.

Gifts that support UCSC students are gifts that change the world. The time to giveto.ucsc.edu is now. For more information, call Jennifer M. Wood at (831) 459-2489, or e-mail jmwood@ucsc.edu.