IF YOUR ACTIONS INSPIRE OTHERS TO DREAM MORE, LEARN MORE, DO MORE AND BECOME MORE, YOU ARE A LEADER.
—John Quincy Adams

FOR NEARLY 100 YEARS our UC Davis community has dedicated its diverse intellectual resources to high-impact innovation. Our early achievements had a profound effect on the development of the agricultural economy in California and around the world. Today, the positive effects of our work reverberate through a host of disciplines from health care and veterinary medicine to art and cultural studies.

Inspired by our land-grant roots and a deep connection to the earth, UC Davis has a long tradition of environmental research and leadership in sustainable practices. We are developing pathbreaking standards for California that aim to significantly reduce our state’s carbon emissions, and we are making a difference locally through a commitment to sustainability and becoming a zero-waste campus by 2020. Today, we also are developing farming practices for safe food and influencing economic policy that can improve the lives of the world’s poorest citizens.

In all of our academic activities, we are inspired by connections and collaborations. Through UC Davis InnovationAccess we are linking UC Davis discoveries with start-up businesses that can turn them into marketplace solutions. The product of our students’ exploration of the nexus of science and art was on display this summer in the United States Botanical Garden.

Service to society motivates us. The UC Davis School of Law is the first public law school in California to offer loan repayment assistance, making it possible for one in four of our students to enter public interest law. Through regional partnerships we have launched the Triumph Preschool and the West Sacramento Early College Prep School, both endeavors that will enable students to see new possibilities—to find the inspiration and then to act on it.

We believe the inspiration to make a difference in the world is always there; it’s just waiting to be found. And through the pages of this book you’ll learn about the products of our own campus’s inspiration and how our faculty, students and staff are inspiring great things in others.
CALIFORNIA GOVERNOR ARNOLD SCHWARZENEGGER AND DANIEL SPERLING ALSO ENGAGED IN 2004 AT THE LAUNCH EVENT HELD AT UC DAVIS FOR THE NATION’S FIRST HYDROGEN HIGHWAY NETWORK.

UC DAVIS WILL STUDY USERS OF NEW PLUG-IN HYBRID CARS

During the next two years, 10 UC Davis cars—converted Toyota Priuses—will be loaned to 100 families in Northern California for six to eight weeks each. The drivers will be surveyed about their automobile preferences and attitudes before, during and after they use the cars, and the analysis of their experiences will constitute the first comprehensive consumer report on plug in hybrid electric vehicles.

UC DAVIS EXPERT NAMED TO CALIFORNIA AIR BOARD

California Gov. Arnold Schwarzenegger named UC Davis transportation expert Daniel Sperling to the California Air Resources Board, a regulatory agency widely seen as a global leader in clean-air and climate-change programs.

UC DAVIS PARTNERS ON NEW $125 MILLION FEDERAL BIOENERGY RESEARCH CENTER

UC Davis researchers, who are experts at turning plants into energy for transportation, buildings and industry, will be partners in a new $125 million federal bioenergy research center focusing on biofuels—liquid fuels derived from the solar energy stored in plant matter.

2007 ENERGY

REVOLUTIONARY LOW-Carbon

UC Davis transportation expert Daniel Sperling has spent most of his life trying to reduce the pollution spewing from our cars. Since he founded the Institute of Transportation Studies 15 years ago, his ideas on the matter have been sought by major automakers, environmental groups, public-health advocates and policymakers around the world.

In 2007, his influence once again bolstered UC Davis’ international reputation for transportation engineering and policy expertise: Sperling was asked by California Gov. Arnold Schwarzenegger to co-lead the drafting of a new state policy to reduce greenhouse gas emissions from cars and trucks. The resulting Low Carbon Fuel Standard aims to reduce California’s carbon emissions by 10 percent by the year 2020.

In a year when climate change became a pressing worldwide concern, other governments announced plans to follow California’s lead in enacting their own Low Carbon Fuel Standards, including the European Commission, the Canadian province of Ontario and the state of Florida. And one of the leading Democratic candidates for U.S. president has endorsed a national standard.

“This very innovative and very important new policy will be a model for the rest of the world,” Sperling said. “It will help the state reduce oil imports, reduce greenhouse gases, and boost investments in alternative fuels.”

The influential thinking of Dan Sperling and his ITS-UC Davis colleagues is changing the world, one tailpipe at a time.

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NANOCRYSTALS KEY TO BETTER FUEL CELLS

A new way to make cubic zirconia with very small crystal sizes could be key to making hydrogen fuel cells more reliable and cost-effective. The invention by a team led by Professor Zuhair Munir was included in Nanotech Briefs’ 2007 Nano50 awards, which recognize technologies, products and people most likely to impact the state of the art in nanotechnology.

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UC DAVIS HEALTH SYSTEM RECEIVES $8.17 MILLION LAND GIFT FOR NEW FACILITIES

A real estate development firm whose major partners include five prominent Sacramento-area families donated 15 acres of undeveloped land located in Rocklin, Calif., and valued at $8.17 million. The property will be used for medical facilities to serve the health-care needs of this fast-growing region of Northern California.

KISTLER NAMED PRESIDENT-ELECT OF ASSOCIATION OF CALIFORNIA NURSE LEADERS

Donna Kistler, nurse manager of the orthopaedics unit at UC Davis Medical Center, was named the president-elect of the Association of California Nurse Leaders, the nursing leadership organization that develops nurse leaders, advances professional nursing practice and promotes quality and patient safety. She will assume the role of president in 2008.

BILINGUAL NURSE PROGRAM HELPS PATIENTS NAVIGATE HOSPITAL SYSTEM

Patients, doctors and nurses are now benefiting from the work of a new program that helps patients with limited English navigate their way through UC Davis Medical Center. Believed to be the only program of its kind in the nation, the Transcultural Linguistic Care Nurse Program offers patients access to nurses who are fluent in the top three non-English languages spoken by patients—Spanish, Russian and Hmong—and who will guide them through hospital processes from admissions to discharge.

NEW NURSING SCHOOL AND SCHOOL OF PUBLIC HEALTH ENVISIONED

California’s health care horizon is looking a lot brighter as UC Davis advances plans to establish a new nursing school and a new school of public health, fulfilling its vision of improving the health and health care of citizens in California and beyond. These professional schools will add to the university’s already robust programs in the schools of medicine and veterinary medicine and will draw on faculty from across the campus.

Thanks to a landmark $100 million grant from the Gordon and Betty Moore Foundation, UC Davis is planning to launch a professional nursing school that will emphasize leadership, scientific rigor and multidisciplinary training. The goal is to graduate nursing leaders, educators and researchers who will make positive, long-term impacts on health care in California and throughout the nation.

“We are most grateful to the Gordon and Betty Moore Foundation for partnering with UC Davis to help us take the first step toward realizing our long-held vision to expand our education of health care leaders,” said UC Davis Chancellor Larry Vanderhoef.

Pending approval by UC and state officials, the Betty Irene Moore School of Nursing will welcome its first students to master’s and doctoral programs in the fall of 2008. Eventually the school will enroll 456 students.

Meanwhile, in the arena of public health—the profession that focuses on the health and well-being of entire communities and populations rather than individual patients—UC Davis’ proposal to establish a school of public health has progressed to the UC Office of the President and UC Academic Senate for consideration.

Students who graduate with bachelor’s, master’s and doctoral degrees in public health will be equipped to tackle a broad range of problems—including obesity, infectious disease, environmental hazards and natural disasters—and to advise on the organization and financing of health-services organizations.
THE LOAN REPAYMENT ASSISTANCE PROGRAM ENABLES EMILY FISHER TO PROVIDE FREE LEGAL ASSISTANCE TO LOW-INCOME AND ELDERLY CITIZENS IN BUTTE COUNTY.

UC DAVIS LEADS OILED-BIRD RESCUE IN SAN FRANCISCO

UC Davis wildlife experts led the rescue of oiled birds in San Francisco after a container-ship spill sent nearly 60,000 gallons of heavy bunker fuel oil into the bay. Three veterinarians and a veterinary technician traveled to Fort Mason to organize the rescue effort and begin treating injured birds. The UC Davis rescue team assessed the health status of oiled birds and then put them in boxes and transported them to the San Francisco Bay Oiled Wildlife Care and Education Center in Cordelia (just outside Fairfield), where they received the world’s most advanced veterinary care for oiled wildlife.

STUDENT-RUN COMMUNITY CLINICS HONORED

The Sierra Sacramento Valley Medical Society honored UC Davis’ student-run health clinics with its 2006 Medical Community Service Award. The School of Medicine sponsors five community clinics in the Sacramento area. Each year, they provide thousands of uninsured and underinsured patients with preventive care and treatment.

STUDENT-RUN BENEFIT HELPS NEW ORLEANS SCHOOL

SHARE, or Students Helping in Aftermath Relief and Education, held a dinner and auction event, “SHARE with New Orleans Food & Wine Festival,” as a part of the group’s effort to raise $20,000 and collect school supplies for the Dr. Martin Luther King Jr. Charter School for Science and Technology in New Orleans’ lower-ninth ward. Created by UC Davis student Venita Katir in 2004 to provide lasting support for those affected by natural disasters, the student group works to rekindle awareness and support for survivors of disasters after the national spotlight has faded.

After earning her UC Davis law degree, Emily Fisher had a choice between going after a $135,000-a-year entry-level job at a large law firm or taking a $30,000-a-year position as a public interest lawyer.

Fisher took the public interest job, despite her $70,000 student-loan debt. Today she provides free legal assistance to elderly and low-income people in Butte County as a staff attorney at Legal Services of Northern California in Chico, a choice she says was made possible by the law school’s Loan Repayment Assistance Program.

UC Davis is committed to serving California not only through its many community-service programs, but also by making it possible for students to serve the public once they graduate.

Nowhere is that commitment as evident as at the School of Law, which offers a certificate program in public service law and operates student-run civil rights, family protection, immigration and prison law clinics that serve low-income clients. Despite rising professional-school fees, one in four UC Davis law school graduates still goes into a public-interest law job.

Launched in 1990, the loan-repayment program was the first established by a public law school in California. About a dozen students a year have benefited from it ever since. In 2007, the program was expanded with support from donations.

Fisher’s interest-free loan covers about 80 percent of her $750 monthly educational loan payments through her first three years in public service, when a portion of the loan will be forgiven. At five years, the loan balance effectively becomes a grant.

“I wanted to do something connected with activism and social justice issues,” said Fisher, who chose UC Davis for just that reason.
‘A FAREWELL TO ALMS’ SPARKS CONTROVERSY AMONG ECONOMISTS Countering the prevailing theory that the Industrial Revolution was sparked by the sudden development of stable political, legal and economic institutions in 17th-century Europe, UC Davis Department of Economics Chair Gregory Clark shows in his book, *A Farewell to Alms*, that such institutions existed long before industrialization. He argues instead that these institutions gradually led to deep cultural changes by encouraging people to abandon hunter-gatherer instincts—violence, impatience and economy of effort—and adopt economic habits—hard work, rationality and education. Clark’s book was released to significant praise in national and regional press including The New York Times, The Washington Post, The Economist and Financial Times.

U.S. COTTON SUBSIDIES HURT WEST AFRICAN POOR Eliminating U.S. cotton subsidies to American farmers would raise the world price for cotton by 6 to 14 percent, increase prices that West African farmers receive for their cotton by 5 to 12 percent and boost the farmers’ incomes by 2.3 to 5.7 percent, UC Davis agricultural economists report in a study commissioned by the international relief and development organization Oxfam America. Added income from increased cotton prices could feed an additional million children for a year or pay school fees for at least two million children living in extremely poor West African cotton-growing households, the researchers concluded.

From faltering levees to world hunger, understanding a problem is fundamental to solving it. Economists at UC Davis, in addition to teaching and conducting research, are informing the policymakers who tackle our most pressing problems.
ROB ATWILL’S RESEARCH WILL HELP DEVELOP BETTER FARMING PRACTICES FOR SAFER FOOD.

A pilot study, led by veterinary toxicologist Birgit Puschner and colleagues at the California Animal Health and Food Safety Laboratory in the School of Veterinary Medicine, found that two chemicals identified in this year’s recalled pet food scare are relatively harmless alone but, if combined, create a deadly mix when consumed by cats. Cats that were fed pet food spiked with both melamine and cyanuric acid quickly experienced acute kidney failure. Cats that received food containing only one or the other of these two chemicals experienced no ill effects. Results of the study are believed to be the first report on the chemicals’ combined effects in any animal species.

$4.65 MILLION TO FUND NEW PRODUCE SAFETY RESEARCH CENTER AT UC DAVIS

A new $4.65 million Center for Produce Safety, to be located in UC Davis’ Western Institute for Food Safety and Security, will serve as a clearinghouse for research on produce safety and will fund new scientific studies aimed at reducing risks associated with the nation’s produce supply. It is the result of a new partnership between leaders of the produce industry, the California Department of Food and Agriculture and the University of California.

NEW DROUGHT-TOLERANT PLANTS OFFER HOPE FOR WARMING WORLD

Genetically engineered crop plants that survive droughts and can grow with 70 percent less irrigation water have been developed by an international team led by researchers at UC Davis. The discovery offers hope for global agriculture that is grappling with limited and variable water supplies. The University of California has filed a patent application on this technology.

SCIENTISTS TACKLE SPECTRUM OF FOOD-SAFETY CONCERNS

When winter rains hit California’s central coast, Rob Atwill’s research team swings into high gear, pulling water samples from the streams, canals and ditches that link rangelands with vegetable fields. In a year marked with scares about the safety of foods ranging from spinach to pet food, the work of UC Davis researchers is increasingly vital.

“Our goal is to provide the data that growers need in order to develop farming practices that will safeguard their crops,” said Atwill, who is interim director of UC Davis’ Western Institute for Food Safety and Security.

A veterinary ecologist, Atwill studies waterborne diseases and how they might move through wild and domestic animal populations to affect human food and water supplies.

He and colleagues at UC Davis and the U.S. Department of Agriculture are intent on tracking the source of E. coli bacteria in the Salinas Valley and neighboring counties, where an outbreak of the devastating E. coli O157:H7 strain was detected last year in spinach.

The researchers also are sampling crops and the feces of livestock and wild animals, hoping to identify the source of the deadly bacteria and how it made its way into farmers’ fields.

In addition to the E. coli problem, UC Davis researchers from a variety of disciplines are tackling a broad spectrum of food-safety issues affecting milk, meat and fresh produce. The campus also is helping leaders from industry, government and academia come together to develop food-safety policies and practices that are workable in the very real world of commerce.
STUDENT LEADERSHIP

STUDENT ATHLETES: LEADERS AND SCHOLARS

Avreeta Singh, a former class valedictorian from Fresno, wasted no time establishing herself as one of UC Davis’ best and brightest in the classroom and on the volleyball court. As a freshman, Singh participated in the demanding Integrated Studies Honors Program, while setting school records in her sport.

Critical to her volleyball position—Singh plays a specialized defensive position called the libero—are her respected leadership abilities. Indeed, she was chosen to represent UC Davis at the NCAA National Leadership Conference in May 2007. The conference brings together student-athletes selected for their academic achievement and leadership prowess. Singh became the first Aggie freshman ever tapped to participate in this prestigious event.

“The thing about Avreeta is that she is wise beyond her years,” said head women’s volleyball coach Steve Walker. “On top of everything else, she has one of the best footsteps as a pediatrician, Singh brought her leadership prowess. Singh became the first Aggie freshman ever tapped to participate in this prestigious event.

“You can’t really understand how great an experience it was unless you were there,” Singh said. “It is a select group of students, so they are obviously at the top among their peers. You find yourself discussing things with students who are really focused and intense.”

Now a sophomore pre-med student who plans to eventually follow in her father’s footsteps as a pediatrician, Singh brought home from the conference an “action plan” to strengthen the solidarity among UC Davis’ teams. Among her ideas: institute a year-end award for the team that is most active in supporting other student-athletes.

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STUDENT LEADERSHIP

CAMPUS AIMS FOR ZERO WASTE BY 2020

Most people stop thinking about their food as soon as they leave the table, but for some administrators and students at UC Davis, the end of a meal is only the beginning.

Through Project Compost, they are collecting table scraps from the campus dining commons—some 1,000 pounds of organic matter every day—and turning it to compost to sell to local farmers. This student-run program is being done in conjunction with Sodexho, which manages campus dining services.

The effort—which has resulted in a total recycling rate of more than 90 percent—earned a Best Practice Award for innovative waste reduction at the UC, CSU and CCC Sustainability Conference, a gathering of representatives from California’s public higher education institutions, in Santa Barbara. And Project Compost organizers say this is just the beginning. They plan to expand the program to recycle organic wastes throughout campus.

UC Davis’ commitment to sustainable practices—and its goal of becoming a zero-waste campus—has put it at the forefront of an environmental revolution among universities. At this year’s Convenation, Chancellor Larry Vanderhoef expressed his hope that, by 2020, the campus is reducing, reusing and recycling so effectively that nothing is sent to a landfill.

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UC DAVIS TAKES TO NCAA DIVISION I PLAYING FIELD

UC Davis is officially a Division I school after completing a rigorous four-year process that proved its readiness for the toughest athletic competition, academic requirements and regulations at the NCAA’s top level of play. The campus—with about 800 student-athletes participating in 26 varsity sports—is now eligible for conference championships and postseason play in Division I. UC Davis will compete in the Big West Conference.

STEEL BRIDGE TEAM PLACES SECOND IN NATIONAL COMPETITION

The UC Davis Steel Bridge team, nicknamed “Chrome Ollie,” took second place overall at the 2007 National Student Bridge Competition at California State University, Northridge, in May. The team qualified for the national contest by earning its fourth consecutive Mid-Pacific crown. The steel bridge contest pits teams of civil and mechanical engineering students against each other in the design and fabrication of scale-size bridge structures that are judged on such criteria as structural efficiency, economy, aesthetics, lightness and speed of assembly.

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TOWARD SUSTAINABILITY

UC DAVIS DEBUTS 2007 OLIVE OIL, WINE VINEGAR; PROMOTES ECO-FRIENDLY LIFESTYLE

UC Davis kicked off the 2007 line of its own, campus-produced olive oil and debuted a companion wine vinegar with a launch party that highlighted sustainability. Campus roads are lined with more than 1,500 olive trees that required costly and constant cleanups, and their slippery residues were the cause of many bicycle accidents. After a particularly messy accident, Grounds Manager Sal Genito noticed that the scene had the unmistakable scent of olive oil, providing the inspiration for a way to revolution among universities. At this year’s Convocation, Chancellor Larry Vanderhoef expressed his hope that, by 2020, the campus is reducing, reusing and recycling so effectively that nothing is sent to a landfill.

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TOWARD SUSTAINABILITY
SUPPORT FOR ENTREPRENEURS HELPS GREEN IDEAS BECOME MARKETPLACE SOLUTIONS

It began in the lab with UC Davis materials science professor Pieter Stroeve, post-doctoral researcher Ruxandra Vidu and graduate student Jie-Ren Ku discovering how to make tiny cables and wires. It’s now contributing to a better world as Q1 NanoSystems of West Sacramento builds on that inspiration to create a new generation of cheap, efficient solar panels.

It’s just one of the great ideas from UC Davis now being made into products for a greener planet thanks to the university’s commitment to supporting entrepreneurs and getting breakthrough discoveries into the marketplace.

“The challenge lies in translating environmentally sustainable technologies and research into viable business ventures,” said Andy Hargadon, professor in the Graduate School of Management and director of the Center for Entrepreneurship.

UC Davis Graduate School of Management and Office of Research have stepped up to that challenge.

The founders of Q1, like many other ventures spun off from UC Davis, got their start through the Big Bang! business plan competition run by students at the Graduate School of Management. The school also helps young scientists learn about the world of startup enterprise through the Center for Entrepreneurship, including a weeklong “Green Technology Entrepreneurship Academy” at Lake Tahoe.

Meanwhile, UC Davis InnovationAccess, part of the Office of Research, helps companies like Q1 NanoSystems get access to UC Davis inventions and expertise, and to take their first steps in the business world.

In these many ways, UC Davis is bringing the fruits of research to market.
INNOVATIVE PROGRAMS PROVIDE OPPORTUNITIES FOR LOW-INCOME STUDENTS

New blocks, dolls and books greeted the 3- and 4-year-olds in the inaugural class at the Triumph Center for Early Childhood Education this fall. So did these sobering statistics: For every 100 low-income students who make it to high school, only 65 will graduate, 45 will enroll in college and 11 will earn a college degree.

At Triumph, a collaboration of the UC Davis School of Education, M.I.N.D. Institute and St. HOPE Public Schools, UC Davis is leading the search for answers to turn these numbers on their head. The hope: By combining quality education with state-of-the-art assessment and interventions, Triumph will help prepare every child for success in kindergarten and throughout school.

Located in Sacramento’s historically underserved Oak Park neighborhood, Triumph is just one of the innovative laboratories in which UC Davis is changing the lives of area students while providing research that will improve education nationwide.

West Sacramento Early College Prep, a partnership of the UC Davis School of Education, Sacramento City College and Washington Unified School District, also opened its doors this fall. Low-income students whose first language is not English and whose parents did not go to college get enrollment priority.

UC Davis faculty and students will help design and assess the curriculum and mentor teachers and students. WSECP students will be able to earn both high school diplomas and up to two years’ worth of college credit. Everyone will learn whether an all-out effort to foster a “college for certain” culture can get more underserved kids through college.

“These initiatives reflect the core values of our institution,” says Harold Levine, dean of the UC Davis School of Education. “It’s our mission to strengthen teaching and learning for all through cutting-edge research, interdisciplinary collaboration, deep and sustained engagement with practitioners and community partners, and work that fundamentally bridges research and practice.”

LOS RIOS TO BUILD COMMUNITY COLLEGE CENTER AT UC DAVIS

A project to build a community college branch at UC Davis—a first for a UC campus—was heralded as a demonstration of a strong partnership and shared commitment to students. The Los Rios district plans to build 60,000 square feet of classroom and office space to house the new Davis Center, which is a branch of Sacramento City College.

GRADE 4 PROGRAM SEES FIRST STUDENTS ENROLL AT UC DAVIS

Nine years ago, UC Davis Chancellor Larry Vanderhoef stood before fourth-grade students in a hardscrabble neighborhood in Sacramento and invited them to see themselves as future university students. Five of those students, part of the inaugural Reservation for College group, started classes at UC Davis this fall and received an annual grant of $6,000, renewable to a maximum of $7,500 in the fourth year. The grants are made possible by funds from the university’s endowment and other contributions, including gifts from the estates of Mary Rogers and from Jean and Russell Fiddyment. Pacific Gas & Electric Co. also provided funds to develop the program’s curriculum.

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“These initiatives reflect the core values of our institution,” says Harold Levine, dean of the UC Davis School of Education. “It’s our mission to strengthen teaching and learning for all through cutting-edge research, interdisciplinary collaboration, deep and sustained engagement with practitioners and community partners, and work that fundamentally bridges research and practice.”

LOS RIOS TO BUILD COMMUNITY COLLEGE CENTER AT UC DAVIS

A project to build a community college branch at UC Davis—a first for a UC campus—was heralded as a demonstration of a strong partnership and shared commitment to students. The Los Rios district plans to build 60,000 square feet of classroom and office space to house the new Davis Center, which is a branch of Sacramento City College.

GRADE 4 PROGRAM SEES FIRST STUDENTS ENROLL AT UC DAVIS

Nine years ago, UC Davis Chancellor Larry Vanderhoef stood before fourth-grade students in a hardscrabble neighborhood in Sacramento and invited them to see themselves as future university students. Five of those students, part of the inaugural Reservation for College group, started classes at UC Davis this fall and received an annual grant of $6,000, renewable to a maximum of $7,500 in the fourth year. The grants are made possible by funds from the university’s endowment and other contributions, including gifts from the estates of Mary Rogers and from Jean and Russell Fiddyment. Pacific Gas & Electric Co. also provided funds to develop the program’s curriculum.

INNOVATIVE PROGRAMS PROVIDE OPPORTUNITIES FOR LOW-INCOME STUDENTS

New blocks, dolls and books greeted the 3- and 4-year-olds in the inaugural class at the Triumph Center for Early Childhood Education this fall. So did these sobering statistics: For every 100 low-income students who make it to high school, only 65 will graduate, 45 will enroll in college and 11 will earn a college degree.

At Triumph, a collaboration of the UC Davis School of Education, M.I.N.D. Institute and St. HOPE Public Schools, UC Davis is leading the search for answers to turn these numbers on their head. The hope: By combining quality education with state-of-the-art assessment and interventions, Triumph will help prepare every child for success in kindergarten and throughout school.

Located in Sacramento’s historically underserved Oak Park neighborhood, Triumph is just one of the innovative laboratories in which UC Davis is changing the lives of area students while providing research that will improve education nationwide.

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From watching babies watch videos to examining the brain scans of adults listening to music, UC Davis researchers are exploring how the healthy brain works and are getting clues to conditions like autism and learning disorders.

Babies may not talk, but Lisa Oakes at the Center for Mind and Brain knows they surely can think. “Babies are really smart, but in a ‘baby way,’” she says—they learn a lot about the world around them before they have words to describe it.

Meanwhile, psychologist Simona Ghetti found that toddlers are surprisingly introspective—even 3-year-olds can reflect on their thinking and are more confident when they are right than when they are not sure. And M.I.N.D. Institute psychiatrist Sally Ozonoff has found that year-old babies who do not respond to their own name are more likely to be diagnosed with autism at age 2.

Oakes, Ghetti, Ozonoff and colleagues at the UC Davis Center for Mind and Brain, the M.I.N.D. Institute and the Center for Neuroscience are gaining new insights into brain development. And that’s good for everybody’s mental health.

**Babies Who Do Not Respond To Their Names May Be At Risk For Autism**

Year-old babies who do not respond when their name is called may be more likely to be diagnosed with an autism spectrum disorder or other developmental problem at age 2, making this simple test a potential early indicator for such conditions. These findings were the result of a study, led by researchers at the UC Davis M.I.N.D. Institute and published in the April issue of *Archives of Pediatrics & Adolescent Medicine*.

**Virtual Psychosis Environment Helps Understanding of Schizophrenic Hallucinations**

A major cause of frustration and alienation among people with schizophrenia is the inability of their therapists, family members and caregivers to fully understand their experiences, especially the auditory and visual hallucinations that often are symptoms of the disease. Now, to share that experience, UC Davis psychiatry professor Peter Yellowlees has helped develop an Internet-based virtual reality environment that simulates the hallucinations of schizophrenia patients. Users who have toured the environment indicated that it improved their understanding of the world experienced by people with schizophrenia.

**UC Davis Receives $21.8 Million To Find Treatments That Reverse A Common Cause Of Dementia**

The same research team that discovered an age-related neurological disorder will now receive nearly $21.8 million from the National Institutes of Health to develop new treatments for it. The funding establishes the Neurotherapeutics Research Institute at UC Davis, which is dedicated to finding interventions that reduce or eliminate the debilitating balance problems, tremors and dementia experienced by older adults who have FXS, or fragile X-associated tremor/ataxia syndrome. The five-year grant is the largest funding award in history to focus on this or any other fragile X-related disorder.

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**Understanding Conditions From Learning Disorders To Autism**

Lisa Oakes is just one UC Davis researcher who is gaining new insight into human brain development.
MURAL OF MALAQUIAS MONTOTA

Malaquias Montoya has used his “art of protest” to champion farmworkers, oppose the Vietnam War and fight the death penalty. Now he is using his passion to inspire California kids in rural towns like Elmira, Knight’s Landing and Dixon. Montoya’s latest project—a 12-by-40-foot mural at Beamer Park Elementary School in Woodland—was completed in May.

Among the most prominent living Chicano artists, Montoya has work in the collections of the Smithsonian Institution in Washington, D.C., the Mexican Fine Arts Center Museum in Chicago, the Los Angeles County Museum of Art and more than a dozen other museums, libraries and universities.

UNIVERSITY WRITING PROGRAM CITED AS ‘STELLAR’

The U.S. News & World Report college guide for 2008 cited UC Davis as one of 15 schools with a “stellar” writing program across disciplines. The University Writing Program teaches writing to undergraduate and graduate students across campus, with 2,400 enrollments in 320 course sections in fall 2007. It also provides consultations and workshops for faculty and teaching assistants who want to integrate writing into courses in the disciplines and to coach and comment on students’ writing more effectively.

NAE’S GALLERY FUSES ART AND SCIENCE

Take a garden of plants and insects, send in a class of students, put some clay in their hands, and what do you get? A learning experience that merges art and science. Take their ceramic creations, put them together into a mural and put them on display in the U.S. Botanic Garden, and what do you get? More than 300,000 visitors from across the nation and around the world making an emotional connection to botany and entomology thanks to UC Davis.

“I have never felt so rewarded by anything in my career as I have by seeing people engage with Nature’s Gallery,” said entomology professor Diane Ullman, co-director of UC Davis’ Art-Science Fusion Program, one example of the university’s tradition of interdisciplinary study.

“Nature’s Gallery is very sensuous, very visual,” said Ullman, who observed as people speaking a variety of languages interacted with the mosaic mural. “Parents touched it, children touched it… Every person who came in contact with that wall learned something about the plant and insect world.”

With the summer exhibition’s close in Washington, D.C., the mural’s 149 tiles are back at UC Davis, where the mural will soon have a permanent home in the arboretum.

“This is a model for ecological and scientific literacy, and we created it at UC Davis,” Ullman said.

NATURE’S GALLERY WAS ON DISPLAY THIS SUMMER IN THE U.S. BOTANIC GARDEN IN WASHINGTON, D.C.
TOTAL REVENUES AT UC DAVIS increased by $191 million from 2006 to 2007, including an 8.1 percent or $40 million increase in funding from the state of California. Private gifts, grants and contracts increased by $39 million, while revenues from the federal government increased by $15 million. In addition, revenue from student fees and tuition increased by $12 million, and self-supporting activities on campus increased revenues by $6 million. Medical Center revenues increased by $79 million, and revenues from other sources went up by $6 million.

Operating expenditures grew by $185 million over 2006, including increases of $49 million for instruction, $23 million for research and $21 million for student services and financial aid institutional support. Expenditures for auxiliary enterprises grew by $17 million and by $79 million for the Medical Center. They decreased by $8 million for operations and maintenance. Expenditures for other activities grew modestly or contracted relative to last year.

UC DAVIS RECEIVED OVER $532 MILLION in research awards in 2006–07, the third consecutive year that the total exceeded the half-billion dollar mark. This strong trend reflects UC Davis’ place as one of the nation’s top research universities, public or private. The campus stands 10th in research expenditures among all public universities in the latest National Science Foundation ranking.

Growth in research continues across a wide range of disciplines on the Davis and Sacramento campuses, reflecting the breadth of UC Davis’ research efforts in finding solutions to society’s most critical issues. UC Davis is fully committed to its service-to-society mission, which derives from its land-grant public university heritage, in addition to its role to educate students and generate knowledge.

UC Davis research tackles challenges in such global issues as energy, environment, sustainability, security, health and well-being, defining to a large degree the modern land-grant university.

“At UC Davis, oftentimes the best solutions result from a collaboration of people in diverse areas and schools of thought,” said Barry Klein, vice chancellor for research. “For many of the global problems we are addressing, we take a solutions-oriented approach—using our expertise both in departments and in transdepartmental, interdisciplinary units. We are respectful and proud of individual accomplishments as well as the teamwork that is often needed.”

Whether discovering and developing new treatments...
for disease, or helping deploy innovative technologies that make our lives better. UC Davis aims to make research results accessible to the world so that people can benefit from them.

UC Davis InnovationAccess, a unit of the Office of Research, helps researchers turn their ideas and discoveries into products for the marketplace, with a focus on commercializing discoveries via technology transfer, supporting new business spin-offs from the campus, and promoting research collaborations with the private sector. The Web-based faculty entrepreneurship roadmap and newly launched collaboration guides help campus researchers and industry during each aspect of building a university-industry collaboration.

UC Davis has also witnessed recent significant growth in inventions and startup companies. In the last three years alone, UC Davis created 18 startups in areas such as green technology, biotechnology and medical technology. For example, Aryte Therapeutics Inc. has raised $52 million and is working on treatments for cardiovascular, metabolic and inflammatory diseases. Synapse Inc., with $10 million in second round venture capital funding, is delivering wireless sensor networking technologies that enhance energy and operational efficiencies in data centers that house computer servers worldwide. These are just two of several ambitious business success stories featuring UC Davis faculty and students.

UC Davis is committed to finding and delivering solutions to make the world a better place. With its broad research expertise, the campus is uniquely suited to tackle a breadth of contemporary problems, and it is dedicated to putting the results of that research into practice.

**Private Support for UC Davis Tops $100 Million**

Through the help of more than 46,000 donors, including alumni, parents, students, patients, organizations and other friends, UC Davis raised nearly $101.2 million in gifts, pledges and private grants during the 2006–07 fiscal year. This represents a nearly 25 percent increase from the $81.5 million raised the year before and is the fifth consecutive year that philanthropic support has grown.

“We couldn’t be happier or prouder that UC Davis has received this strong vote of confidence from private supporters,” said Chancellor Larry Vanderhoef. “They are partners in our commitment to provide an outstanding, affordable education to our students and to find solutions to society’s most pressing problems.”

Gifts and philanthropic grants provided a wide range of support for students, faculty and programs. Forty-eight percent of the philanthropic total was directed toward research. Student support—including scholarships and fellowships—received 12 percent, while department/faculty support received 9 percent. Campus improvement and other program support received the remaining 31 percent.

Each of UC Davis’ four colleges and five professional schools received private support, with the health system recording the highest amount at $34.6 million, followed by the School of Veterinary Medicine at $18.1 million, and the College of Agricultural and Environmental Sciences at $15.8 million. More than 18,000 donors supported the UC Davis Annual Fund in 2006–07, giving a record $1.9 million. The chancellor allocates Annual Fund gifts to areas of greatest need and opportunity, including student and faculty support.

UC Davis receives about 21 percent of its total budget from the state, and receives additional support from a variety of funding sources, such as patient care fees from the medical center, student fees and tuition, and donors.

**UC Davis Research by the Numbers 2006–07**

<table>
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<th>Research Funding Trend (2000–2007)</th>
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<td>$500</td>
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**Technology Transfer**

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<th>2005–06*</th>
<th>2006–07</th>
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<tr>
<td><strong>TOTAL (ACTIVE)</strong></td>
<td></td>
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<tr>
<td>Inventions</td>
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<tr>
<td>U.S. applications, first filings</td>
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<tr>
<td>U.S. applications, secondary filings</td>
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<tr>
<td>Foreign patents filed</td>
<td>43</td>
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<tr>
<td>Foreign patents</td>
<td>42</td>
</tr>
<tr>
<td>Licensing agreements</td>
<td>576</td>
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**2005–06** tech transfer financials (in millions)

- Net income from royalties: $8.4 million
- Operating expenses: $0.927 million
- Net legal expenses: $2.328 million
- Income available for distribution: $5.186 million

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*2006–07 data were not available at press time. Please visit www.research.ucdavis.edu for the latest information.
PRIVATE SUPPORT (CONTINUED)

INSPIRATIONAL GIFTS TO UC DAVIS

The following is a sampling of gifts from the more than 46,000 donors who supported UC Davis in fiscal year 2006–07.

SUPPORT FOR ART

Art department graduate Freemon E. “Pete” Gadberry ’67 bequeathed $1 million toward student support in the art program. The gift is the largest ever for the Division of Humanities, Arts and Cultural Studies in the College of Letters and Science. Gadberry’s legacy will provide support for decades to come for our best students in the UC Davis art program, which is ranked among the top 15 in the country.

ALUMNUS GIFT FOR SCHOOL OF LAW BUILDING EXPANSION

Joseph E. Bernstein ’70, J.D. ’74 gave $230,000 to the King Hall Building Expansion and Renovation Project. The groundbreaking for the project occurred September 29, 2007. The expansion will relieve over-crowding and help ensure that UC Davis remains one of the best law schools in the nation.

LAND FOR NEW MEDICAL FACILITY

Fifteen acres of Rocklin land valued at $8.17 million were donated to UC Davis by Bixby Ranch Corporation. Founded in 1948 by Fred Bixby, the company composed of five Sacramento region partners. It was the largest gift of the year to UC Davis, and has far-reaching benefits for the Health System and the many residents it serves throughout the region and beyond.

LEARNING FARMING FIRSTHAND

Bixby Ranch Corporation provided significant additional support for experiential learning opportunities under undergraduate students studying agriculture. In addition to the $5 million contributed this year, in 2008 the corporation will direct major additional support to the program, which was founded in 1948 by Fred Bixby.

WHAT IS THE UC DAVIS FOUNDATION?

The UC Davis Foundation gratefully accepts gifts on behalf of the university and helps to ensure that those gifts present even greater opportunities for the university. The UC Davis Foundation plays a vital role in generating much-needed private support for UC Davis. While the state of California provides core support to the university, philanthropic support is essential to maintaining a margin of excellence in all areas of education and research.

Founded in 1990, the UC Davis Foundation is a non-profit, public benefit corporation recognized under federal and state tax laws as a qualified recipient of tax-deductible charitable contributions. The foundation is led by a volunteer board that helps increase philanthropic support for the university. The foundation receives private gifts to benefit UC Davis, invests its endowed gift funds and other private assets, and advises university leaders in areas related to public trust and support. The endowed funds provide faculty, student and program support in perpetuity.

2006–07 PHILANTHROPIC SUPPORT TO THE UC DAVIS FOUNDATION

Of the $101.2 million in total philanthropic support that UC Davis received in 2006–07, 18.2 percent, or $18.4 million, was given to UC Davis through the UC Davis Foundation, with the rest given through the UC Regents. These gifts helped to fund academic priorities such as faculty support, student support, facilities, academic programs and research.

As of June 30, 2007, the foundation had $223 million in net assets. Of that amount, $181 million was held for endowment. Meg Stallard ’88, chair of the foundation, says that the organization plays a vital role in helping the university fulfill its mission of teaching, research and public service.

“The philanthropic support provides a critical boost for UC Davis to accomplish important goals,” Stallard said. “Funds managed by the UC Davis Foundation provide financial awards to students, help faculty in their pursuit of new knowledge and bolster resources for academic initiatives. I’m proud to be affiliated with the UC Davis Foundation and its mission to help the university further its service to society.”

UC DAVIS FOUNDATION: TRUSTEES

UC Davis Foundation trustees help to manage the endowment and raise funds for all areas of the university. Trustees support the university through their personal gifts, as well as their contributions of time and expertise. (Continued on next page)
WHY SUPPORT UC DAVIS? ASK TRUSTEE KEVIN BACON ’72

“I received a superb education from my academic work at UC Davis, studying political science, economics and history.” Kevin Bacon ’72 says, “I also had some great life experiences. UC Davis gave me a strong foundation, and I owe much of my success to my education.”

While pursuing his bachelor’s degree at UC Davis, Bacon was business manager for the Associated Students of Davis. His commitment to the well-being of the university continues to this day, shown by his service as a trustee of the UC Davis Foundation and as a volunteer who generously supports the College of Letters and Science and the Graduate School of Management, among other campus programs.

“I am pleased that the UC Davis Foundation is helping to ensure the excellence of this great university far into the future.”

SPECIAL THANKS to the members of the UC Davis Communications Council for their invaluable expertise and collaboration.

AVAILABLE ONLINE AT ANNUALREPORT.UCDAVIS.EDU

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PROJECT MANAGER
J. Elizabeth Smith

ART DIRECTOR/DESIGNER
Joy D. Leek

EDITORIAL
Teri Buchman
Peti Bailey
Mitchell Berenson
Jon Conney
Haley Davis
Julia Ann Eskey
Andy Fell
Tam Hinds

MARK HONDO
Dave Jones
Lisa Lepin
Claudia Maroin
Sylvia Wright

STATISTICAL DATA
Dawn Castelo

PHOTOGRAPHY
Karim Higgins
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Cassandra Pye

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Inquiries regarding the university’s affirmative-action/equal opportunity policies may be directed to the Office of Campus Community Relations, 414 Mrak Hall, (530) 752-2071. Speech- or hearing-impaired persons may dial (530) 752-7320 (TDD).

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Chair, Davis Chancellor’s Club

Jean Stone
Chair, UCDMS Leadership Council

* NEW TO THE FOUNDATION BOARD IN 2007

FOUNDATION OFFICERS AND TRUSTEES 2007–08

At the spring 2007 board meeting, the foundation welcomed nine new trustees and thanked four outgoing trustees whose terms had come to a close. The new trustees join the existing 30 board members.

Anne Gray, one of the foundation’s new trustees and a longtime supporter of many programs at UC Davis, expressed her thoughts about the importance of volunteering for the university. “The University of California gave amazing professional opportunity and enrichment of life to my late husband, Antolin Raventos IV, a member of the medical faculty, and me as an administrator. We always strove to give back.” With this new role, I shall continue to find satisfaction in doing what I can to forward UC Davis and, in encouraging others to do so.”

For more information on the UC Davis Foundation or about making a gift to UC Davis:

BEVERLY SANDEEN
Associate Vice Chancellor, Development
(530) 757-3210 or 752-1011
basandeen@ucdavis.edu

President and Secretary, UC Davis Foundation
(530) 752-2616

Beverly A. Sandeen
Chancellor

President/Secretary

UC DAVIS FOUNDATION (CONTINUED)

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