

Engineering school celebrates 10 years of innovation

Open house, lecture series, symposium mark anniversary

THE BASKIN SCHOOL of Engineering is celebrating its 10th anniversary and its emergence as a vibrant and innovative center for research and education.

At an open house in February, Jack Baskin, whose \$5 million gift helped launch the school a decade ago, said he was impressed by the school's rapid progress. Baskin's most recent gift to the campus includes \$500,000 for an endowed chair in technology and information management (see story, page 6), bringing his contributions to the engineering school to



Jack Baskin (left) and Acting Chancellor George Blumenthal at the 10th anniversary open house at the Jack Baskin School of Engineering in February

more than \$8 million.

"The engineering school has flourished beyond our wildest dreams," Baskin said at the celebration.

Established in 1997, the Baskin School of Engineering was built on the foundation of two strong programs—the

Departments of Computer Science and Computer Engineering. It has since grown to include five departments, with more in the planning stages, and the number of faculty has grown from 25 to 72.

Engineering faculty have developed innovative programs

that cross disciplinary boundaries, pioneering new areas of research and creating exciting opportunities for students. New buildings completed in 2004—the award-winning Engineering 2 and the Baskin Engineering Auditorium—have greatly expanded the school's research and teaching facilities.

In the months ahead, the Baskin School will be hosting a distinguished lecture series, a research poster symposium, and other events to celebrate 10 years of achievements and the creation of an engineering school poised to tackle the challenges of the 21st century. For more information about upcoming events, visit the 10th anniversary web site at www.soe.ucsc.edu/events/tenth/calendar.

Astronomer wins Packard Fellowship

THE DAVID AND LUCILE Packard Foundation has awarded a Packard Fellowship for Science and Engineering to



Constance Rockosi

Constance Rockosi, assistant professor of astronomy and astrophysics. The fellowship is one of the nation's most prestigious honors for young faculty members.

Rockosi will receive \$125,000 per year for the next five years to support her research on the old and distant stars in the Milky Way and the clues they hold to the galaxy's formation.

Assistant arts dean reports discovery of ancient ruin in Peru

KEITH MUSCUTT, assistant dean of the arts at UCSC, reported the existence of a previously unknown pre-Columbian ruin in Peru at the annual Institute of Andean Studies conference held at UC Berkeley in January.

Located in the remote and densely forested eastern slope of the Andes Mountains, the massive ruin is thought to be a remnant from Peru's vanished Chachapoya people, who flourished in the upper Amazon region from the ninth



A Chachapoya stone sculpture that represents the chewing of coca leaves

to the 15th centuries. There is little evidence of the culture left today, except for the ruins of ancient settlements and well-preserved mummies recovered from cliff tombs.

The ruin was first discovered by three local Peruvians last August who relayed the

information to Muscutt, an expert on the Chachapoya and author of the 1998 book *Warriors of the Clouds: A Lost Civilization in the Upper Amazon of Peru*. Muscutt traveled to Peru in late August to make a preliminary survey of the site, dubbed "Huaca La Penitenciaría" (The Penitentiary) because of its formidable appearance. It is of particular interest because of its size, distinct design, and remote location, said Muscutt.

Muscutt is working with the Discovery Channel to plan a full-scale archaeological investigation of the newly discovered site. The ruin will be featured in a Discovery Channel documentary to be aired next year.



Paul Whitworth as Henry Higgins and Julia Coffey as Eliza Doolittle in Shakespeare Santa Cruz's 2006 production of George Bernard Shaw's *Pygmalion*.

Shakespeare Santa Cruz announces a slate of four plays for summer 2007, each one a unique exploration of serious comedy. The Festival Glen will play host to two Shakespeare offerings: *Much Ado About Nothing* and *The Tempest*. The indoor stage will be the setting for a duet of classic Irish plays, Samuel Beckett's *Endgame* and *Playboy of the Western World* by John Millington Synge. According to SSC artistic director Paul Whitworth, "All four plays are considered trailblazers for the types of comedy they introduced in their time." The plays will be in repertory from July 17 through September 2. For ticket information, go to shakespearesantacruz.org or call the UCSC Ticket Office at (831) 459-2159.

Scientists help shape policy in plan for state's marine reserves

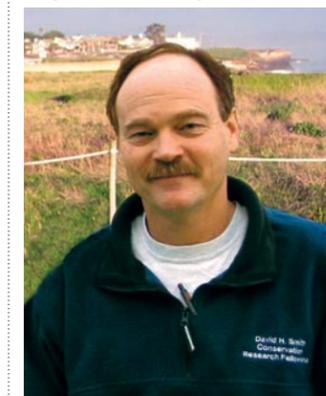
MARK CARR'S OFFICE looks out on a stretch of pounding surf, kelp beds, and tide pools that represents not only his research interest in marine coastal ecology, but also his involvement at the intersection of science and policy.

Carr, an associate professor of ecology and evolutionary biology, serves on the Science Advisory Team that is helping to implement California's Marine Life Protection Act (MLPA). Passed by voters in 1999, the MLPA is moving toward the establishment of an unprecedented network of marine protected areas along the entire California coast.

"The establishment of marine reserves is one of the

biggest marine conservation issues not only in California, but the whole world," Carr said. As a member of the MLPA initiative's Science Advisory Team, Carr plays a pivotal role in ensuring decisions are made based on sound science and providing guidelines on how to design a network of marine protected areas to best conserve and protect marine ecosystems.

Mark Carr is helping to implement California's Marine Life Protection Act.

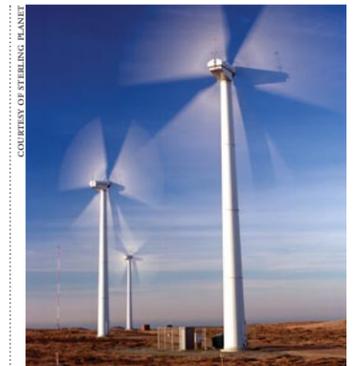


EPA ranks UCSC sixth for 'green energy'

A VOTE BY UC SANTA CRUZ students to boost their own fees to enhance campus support for "green power" has brought national recognition from the U.S. Environmental Protection Agency (EPA).

The EPA's College and University Green Power Partners, which promotes purchases of renewable resources, has named UCSC its sixth largest green power purchaser in the country. The list is based on purchases through the end of 2006.

"Based on national average utility subregion emissions rates, the U.S. EPA estimates that UC Santa Cruz's purchase is equivalent to avoiding the carbon dioxide emissions of nearly 7,000 cars per year, or avoiding the equivalent carbon dioxide



Students voted last spring to pay \$3 per quarter more in tuition to purchase renewable energy from Sterling Planet, including wind, solar, and geothermal.

emissions associated with nearly 3.6 million gallons of gasoline annually," said James Critchfield of the EPA's Climate Protection Partnerships Division.

"I want to thank our students for their generosity and the UC Santa Cruz Physical Plant for its effectiveness in making this recognition possible," said Acting Chancellor George Blumenthal.

Group focuses on science and justice

CAPITALIZING ON UCSC's strengths in scientific and social justice research, Assistant Professor Jennifer Reardon of sociology has created a new Science and Justice Working Group on campus.

Established in the fall, the new group brings together faculty and graduate students from all five academic divisions on campus—arts, humanities, social sciences, engineering, and physical and biological sciences—to promote interdisciplinary discussion.



Jennifer Reardon

"There's a growing desire on campus to explore issues of science and society and to build more reflective understandings of the embeddedness of science and technology in our lives," said Reardon.

A faculty affiliate of the Center for Biomolecular Science & Engineering, Reardon specializes in the social, cultural, and historical study of genomics.

"Many scientists think the problem lies with society and how it uses new information," she said. "I maintain that as we're doing science, social decisions are being made, and we need to talk about that. Without that discussion, we're living in an unreflective society."

Reardon is organizing a conference on genomics and justice that will take place at UCSC May 17–18.



Anne Neufeld Levin



Julie Packard



Robert Stephens

Supporters of UCSC honored at Scholarships Benefit Dinner

THREE GENEROUS supporters of UCSC—Anne Neufeld Levin, Julie Packard, and Robert Stephens—were recipients of a major campus honor at the fourth annual Scholarships Benefit Dinner, which was held in February at Seascapes Resort in Aptos.

The gala dinner has become an important fundraising event supporting undergraduate and graduate scholarships and fellowships.

The campus awarded two Fiat Lux (“Let there be light”) Awards at the event: one to Anne Neufeld Levin and one presented jointly to Julie Packard and Robert Stephens.

Award recipient Anne Levin is a tireless advocate for the campus. A past president of the UC Santa Cruz Foundation, she has served as a Foundation trustee for 19 years and is a generous donor to programs, organizations, and capital projects across the campus.

Levin, who escaped Austria with her family in 1939, also endowed the Neufeld Levin Chair in Holocaust Studies in 1995, which is further enhanced

by her family’s archive in Special Collections of the University Library.

Julie Packard and Robert Stephens are spouses and graduates of UCSC. They have helped UCSC as volunteers and financial supporters of a number of campus programs, including the Arboretum, Shakespeare Santa Cruz, and the Seymour Marine Discovery Center.

Packard is executive director of the Monterey Bay Aquarium, which she helped found in 1975, and has been a trustee of the David and Lucile Packard Foundation for more than 25 years. Stephens was cochair of the capital campaign committee for the Seymour Marine Discovery Center. He also serves on the Packard Foundation board and owns the Elkhorn Native Plant Nursery.

Proceeds from the annual dinner provide undergraduate scholarships, internships, research opportunities, and graduate fellowships. Many recipients are students who might not otherwise be able to attend UCSC.

Physics, space sciences, toxicology, music get top rankings

IN A NEW ANALYSIS OF research publications from top U.S. universities, UC Santa Cruz ranked first for the impact of its faculty in the field of physics and fifth in the field of space sciences. The new rankings were reported in *Science Watch*, a newsletter published by Thompson Scientific.

Thompson Scientific gathers data from thousands of influential, peer-reviewed journals and conducts analyses to identify trends and measure research performance. A commonly used performance measure, called citation impact, is based on the number of times a published paper is cited by other researchers. The latest rankings are based on the citation impact of research papers published by the top 100 federally funded universities between 2001 and 2005.

In another comparative study, the Faculty Scholarly Productivity Index ranked UCSC doctoral programs in music and in environmental health engineering third in the nation in scholarly faculty productivity. At UCSC, environmental health engineering research takes place primarily in the Environmental Toxicology Department.

The Faculty Scholarly Productivity Index, partly financed by the State University of New York at Stony Brook and produced by Academic Analytics, rated faculty members’ scholarly output at nearly 7,300 doctoral programs. The index, based on 2005 data, judged productivity on publications, including citations; federal-grant dollars awarded; and awards and honors. The rankings were reported in January in the *Chronicle of Higher Education*.

Donors fund library café, reading garden

TWO GIFTS to the campus valued at \$350,000 will work together to create an exciting new social and educational center at the University Library.

Stephen Silberstein—cofounder and former president of Innovative Interfaces, a library software company in Emeryville, California—has donated \$250,000 to create a global cyber café in the campus’s newly expanded and renovated McHenry Library.

Longtime Santa Cruz resident and library supporter William Ackerknecht has also pledged \$100,000 to create

an outdoor reading garden that will be located just outside the café.

The new Global Village Café will have a rotating digital newspaper display that spotlights up-to-date front pages of approximately 140 newspapers from around the world. The café menu will feature fresh, healthy ingredients that are obtained and prepared locally.

The new outdoor reading garden will have a large terraced grass



Stephen Silberstein



William Ackerknecht

area, surrounded by benches, tables, and chairs situated under the redwoods—complete with power outlets and wi-fi availability—and landscaped with small cherry trees. The design will ensure that the area receives sunlight, even in the winter.

“The cyber café, combined with the reading garden, will be a place for faculty and students to study, read, and socialize . . . a beautiful environment for everyone to enjoy,” said Ackerknecht.

Three receive top awards from Alumni Association

A PIONEERING medical researcher, an influential professor of Earth and planetary sciences, and an academic adviser known for her personal touch were selected to receive the UCSC Alumni Association’s highest honors for the 2006–07 year.

Joseph DeRisi received the Alumni Achievement Award; Gary Griggs, the Distinguished Teaching Award; and Lynne Wolcott, the Outstanding Staff Award.

The winners, who each received \$500, were honored at the Alumni Association Awards Luncheon in February.



FROM LEFT: Joseph DeRisi, Chancellor Blumenthal, Lynne Wolcott, Gary Griggs

Joseph DeRisi (Crown College ’92) is best known for his work leading to the identification of the type of virus involved in the SARS outbreak, prompting *USA Today* to describe him as

a “rock star” of science.

Founding faculty member Gary Griggs’s popular oceanography class “has been introducing students to science and conservation issues in an engaging, thoughtful, and clear

Large halo of red giant stars discovered around Andromeda

ASTRONOMERS have found an enormous halo of stars bound to the Andromeda galaxy and extending far beyond the swirling disk seen in images of the famous galaxy, our nearest large galactic neighbor. The discovery, reported in January at the American Astronomical Society meeting in Seattle, suggests that Andromeda is as much as five times larger than astronomers had previously thought.

“I am absolutely astounded by how big this halo is. As we looked farther and farther out, we kept finding stars that look like halo stars,” said Puragra (Raja) Guhathakurta, professor of astronomy and astrophysics at UCSC, who presented the findings.

Guhathakurta and his collaborators at UCSC, UCLA,

and the University of Virginia are conducting an ongoing study of Andromeda’s stellar halo, using observations at the Kitt Peak National Observatory in Arizona and the W. M. Keck Observatory in Hawaii. Their new findings are based on data gathered using the 4-meter Mayall Telescope at Kitt Peak and the DEIMOS spectrograph on the 10-meter Keck II Telescope in Hawaii.

The researchers detected a sparse population of red giant stars—bright, bloated stars in a late stage of stellar evolution—that appear to be smoothly distributed around the galaxy out to a distance of at least 500,000 light-years from the center. Even at that great distance, the stars are bound to the galaxy by gravity. These stars probably represent Andromeda’s

stellar halo, a distinct structural component of the galaxy that has eluded astronomers for over 20 years, Guhathakurta said.

The group’s ongoing investigation of Andromeda’s halo promises to shed new light on the question of how large galaxies formed, Guhathakurta said.

The newly discovered stellar halo of the Andromeda galaxy extends far beyond the disk and central bulge seen in this image.



manner for almost four decades,” noted his department chair, Paul Koch, professor of Earth and planetary sciences. Despite his administrative duties as director of the Institute of Marine Sciences for 15 years, Griggs has always chosen to carry a full teaching load, probably reaching more than 10,000 students.

In her career as academic preceptor at Cowell College, Lynne Wolcott’s commitment to students was renowned. Some former students doubt they would have graduated without Wolcott. Carol Freeman, who has served as Cowell provost, described Wolcott as having “the perfect balance between concern and common sense, justice and mercy, empathy and rigor.”

Business influence over policy is targeted, researcher says

BUSINESS INFLUENCE over environmental policy and regulation in the United States is strategic and focused, says Sheldon Kamieniecki, dean of social sciences at UCSC and author of the new book *Corporate America and Environmental Policy: How Often Does Business Get Its Way?*

The book is the first major investigation of business influence over environmental policy in all three branches of government. Through quantitative analysis, as well as in-depth case studies, the book examines the influence of business since 1970.

“Corporate interests define the issues and frame the debates to their advantage,” Kamieniecki concludes. “When business does become involved, they are a formidable opponent for environmental groups.”

Students create art on McHenry stairway

STUDENTS in Dee Hibbert-Jones's *Public Art 1* class have created a permanent art installation to replace the netting that had lined the spiral staircase at McHenry Library for more than a decade.

The students designed and installed an image of a cherry tree on 550 Plexiglas panels that climb from the basement to the top floor. Many of the panels are inscribed with literary or philosophical quotations that relate to the specific subject matter contained on each library floor.

"It's really exciting for the students to do an installation on campus in their own community," said Hibbert-Jones.



\$1 million gift from Jack Baskin establishes two endowed chairs

PHILANTHROPIST Jack Baskin has continued his remarkable record of support for UC Santa Cruz with two \$500,000 gifts establishing endowed chairs, one in the Humanities Division that honors his wife, Peggy Downes Baskin, and another in the Baskin School of Engineering.

The Peggy Downes Baskin Endowed Humanities Chair for Interdisciplinary Studies in Ethics will be held by a distinguished member of the UCSC humanities faculty or a visiting

Bilingual undergrad plays key role in professor's fieldwork

ALMOST AS DIFFICULT AS hunting for the proverbial needle in a haystack, foraging for prized wild matsutake mushrooms requires a keen eye, an experienced hand, and a good sense of direction.

One of Japan's most culturally significant foods, matsutakes, grow underground in densely forested areas, where the only sign of their presence is a slight disturbance of the soil.

During Japan's "economic bubble," matsutakes were prized as corporate perks and expensive gifts. As demand grew and Japanese matsutakes became scarce, new markets emerged in China, Korea, Morocco, Turkey, British Columbia, and the Pacific Northwest, said anthropology professor Anna Tsing.

"Southeast Asians started flocking to the Pacific Northwest," said Tsing.

Tsing immediately saw the opportunity to explore her



Lue Vang, left, assisted anthropology professor Anna Tsing on her research into the global commodity chain of matsutake mushrooms.

interests in global commodities, multiculturalism, and how people interact with the landscape. In the fall, she made her third trek to the Cascade Mountains to observe the matsutake harvest, and this time she brought in a research collaborator: Undergraduate Lue Vang got a crash course in ethnographic research and made significant contributions to the project.

Vang, who is of Hmong descent, speaks Hmong and built sufficient trust with some pickers that he was able to conduct lengthy interviews. Two men even allowed Vang to accompany them foraging.

"I thought I'd chit chat with

Hmong about mushrooms and their lives," said Vang. "But once I got there, they said they had no time. They worked from six in the morning until four in the afternoon, and afterwards they were too tired to talk."

Ultimately, Vang succeeded. "With Hmong people, I'm very talkative. I'd wait behind the motels every day until some finally made time for me."

As cultural diversity is woven into today's global entrepreneurship, Tsing sees an opportunity for students and faculty to work together: "Anthropologists need their help in deciphering the new landscape of cultural complexity and global integration."

professor whose work advances the study of the role of ethics in various fields. The chair supports an area of interest to Downes Baskin, a research associate in UCSC's feminist studies program.

The Jack Baskin Endowed Chair in Technology and Information Management will be held by the faculty member who directs the Technology and Information Management Program in the Baskin School of Engineering. With this gift, Baskin's donations to the



Peggy Downes Baskin and Jack Baskin

engineering school that bears his name total more than \$8 million.

Technology and information management is a new and distinct discipline within engineering, combining technology management, systems engineer-

ing, and information technology. The Baskin School of Engineering is developing M.S. and Ph.D. programs in this field, complementing its undergraduate program in information systems management.

"These two chairs support the very best of UC Santa Cruz: innovative programs and a creative approach to discovery involving faculty from multiple disciplines," said Acting Chancellor George Blumenthal. "The campus is again benefiting from Jack and Peggy Baskin's support for key programs and initiatives that advance our mission."



Nobel Prize laureate and renowned economist Amartya Sen delivered the sixth annual Sidhartha Maitra Memorial Lecture at the Music Center Recital Hall in October. After his talk, Sen was presented with the UC Santa Cruz Foundation Medal—the highest honor awarded by the university. The Sidhartha Maitra Memorial Lecture was established in 2001 by Foundation President Anuradha Luther Maitra to honor the memory of her late husband.

Grad students develop U.S. history curriculum

GRADUATE STUDENTS in history at UCSC have developed a new globalized model curriculum for college-level survey courses in U.S. history. Titled "Globalizing U.S. History," the project is under the direction of UCSC history professor and UC Presidential Chair Edmund Burke III.

"The project provides a new lower-division curriculum for United States history that reflects cutting-edge research regarding the impact of the world on U.S. history, as well

as the impact of the U.S. on the world," noted Burke, director of the Center for World History at UCSC. "It aligns for the first time major dates in U.S. history with world historical processes."

The curriculum is the result of the collaboration of more than a dozen UCSC graduate students of world history over an 18-month period. It features a syllabus for each of the two parts of the U.S. history lower-division survey course, along with lecture titles and assigned readings. There is also an instructor's syllabus that outlines each lecture, as well as a bibliography to guide the instructor's preparation.

Graduate students (l-r) Sarah Doub, Anders Otterness, Urmi Engineer, and Eliza Martin with Professor Edmund Burke III



Ólöf Einarsdóttir elected AAAS Fellow

ÓLÖF EINARSDÓTTIR, professor and chair of chemistry and biochemistry, has been awarded the distinction of AAAS Fellow by the American Association for the Advancement of Science.

Election as a fellow is an honor bestowed upon members of AAAS by their peers.

Einarsdóttir was recognized for her work in understanding the role of a key enzyme in respiration, called cytochrome oxidase, which extracts energy from food molecules.



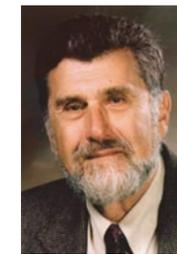
Ólöf Einarsdóttir

Psychologist honored for life's work

PREEMINENT social psychologist Elliot Aronson has received a lifetime achievement award from the Association for Psychological Science.

A renowned scholar, teacher, and author, Aronson conducted pathbreaking research on cognitive dissonance and interpersonal attraction

before championing the use of social psychological principles to address societal problems, including racial prejudice, energy and water shortages, and AIDS.



Elliot Aronson

In Memoriam

► **BERT KAPLAN**, 87, professor emeritus of psychology and a member of UCSC's founding faculty, died in July. His interest in humanistic studies and interdisciplinary learning influenced the intellectual development of the campus in its early years. His own research was focused on the cross-cultural study of personality and mental illness.

► **RICHARD MUSGRAVE**, 96, an adjunct professor of economics at UCSC and a professor emeritus of economics at Harvard University, died in January. Musgrave was widely regarded as the founder of modern public finance and an adviser on fiscal policy and taxation to governments from Washington to Bogota to Tokyo. Musgrave's many contributions included studies on tax incidence, tax progressivity, public goods, fiscal fed-

eralism, the effects of taxation on risk taking, and the role of fiscal policy in stabilizing the economy.

► **DONALD OSTERBROCK**, 82, professor emeritus of astronomy and astrophysics, and former director of the University of California's Lick Observatory, died in January. He was a pioneer in the use of spectroscopic methods for the study of gaseous nebulae and published nearly 500 works, including his textbook, *Astrophysics of Gaseous Nebulae and Active Galactic Nuclei*. After he retired, he wrote numerous books and articles on the history of astronomy. Among his many honors were lifetime achievement awards from the American Astronomical Society and the Astronomical Society of the Pacific, two of the field's highest honors.