About the School of Humanities and Sciences
The School of Humanities and Sciences (H & S) is Stanford’s largest school, awarding nearly 80 percent of Stanford’s undergraduate degrees and offering challenging graduate and postdoctoral programs to foster development of scholarly leadership for future generations. H & S is home to Stanford’s basic research, where free, open, and critical inquiry are pursued at the frontiers of new knowledge. With 28 departments and dozens of interdisciplinary programs spanning the core humanities, arts, languages and literatures, social sciences, mathematics, and physical and life sciences, H & S provides strength at Stanford’s core, advancing the university’s multidisciplinary initiatives and the applied and professional disciplines in each of its seven schools. The school’s more than 500 distinguished faculty include MacArthur Fellows, recipients of the Nobel Prize, Pulitzer Prize, and National Medal of Science, and hundreds of members of the National Academy of Sciences and American Academy of Arts and Sciences.
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MESSAGE FROM THE DEAN

As we look to the future, the complex challenges facing the world do not fit into the neat compartments of academic disciplines. In the School of Humanities and Sciences, we are meeting today’s challenges with innovative research that transcends departmental boundaries. H&S is uniquely positioned to use this approach as a platform for remarkable discoveries, advances, and educational developments.

In these pages, you will find examples of the exciting ways in which interdisciplinary work and collaboration in H&S is breaking new ground. At the Institute for Research in the Social Sciences (IRiSS), our faculty in political science, economics, and classics are working together to understand the factors that influence democracy and technological innovation throughout the modern world, while a diverse team of social scientists studies inequality and its impacts on law, medicine, education, and business. In the math department, groundbreaking numerical analysis is being applied to medicine, physics, and neurobiology, while students in our art programs extend skill and imagination, using both traditional artistic techniques and innovative digital, visual, and multimedia approaches, reaching across campus to the Cantor Arts Center and to our colleagues in Engineering.

These leading-edge collaborations are only the beginning of what Stanford and the School of Humanities and Sciences intend to achieve in the years ahead. I am privileged and grateful to be a part of a place that has the energy, creativity, and vision to change the future. We look forward to new ventures, including a vibrant arts initiative, a leading physics and astrophysics program, and an internationally recognized archaeology program. At the same time, we will maintain our enduring commitment to the core of the liberal arts, from basic science through social sciences to the humanities. Stanford’s unique openness and energy provide an atmosphere in which the core and the leading edge can both progress, and in so doing can renew and inspire each other.

Our success, now and in the future, is made possible by our generous friends, donors, and volunteers. Thank you for being a key partner in all of our efforts. We are especially grateful to The William and Flora Hewlett Foundation for their gift to H&S. The Hewlett endowment pledge is helping to sustain and build the core of the school, and it allows us to create new partnerships and ventures with our supporters. Together, we look forward to the challenges and the excitement that lie ahead.

Sharon R. Long
The Vernon R. and Lysbeth Warren Anderson Dean of Humanities and Sciences and the William C. Steere Jr.-Pfizer Inc. Professor in Biological Sciences
"These leading-edge collaborations are only the beginning of what Stanford and the School of Humanities and Sciences intend to achieve in the years ahead. I am privileged and grateful to be a part of a place that has the energy, creativity, and vision to change the future."
When Stanford Symphony Orchestra conductor Jindong Cai was a young boy in China, he and his friends would huddle around a record player listening to rebellious underground music. It was the late 1960s, but they weren’t listening to hip-swiveling rock and roll like Elvis or the Beatles. The music that stirred Cai’s 13-year-old soul was Western classical music, which during China’s Cultural Revolution was considered the height of bourgeois decadence.

“Sometimes, late at night, I would hear classical music on Voice of America or Soviet radio,” Cai says. “The first time I heard Beethoven, I was in middle school. One of my best friends found a stack of 78-rpm records of Beethoven symphonies. We played them on an old gramophone turntable. It’s so exciting the first time you hear a Beethoven symphony. It’s an emotional, revolutionary kind of music.”

That instant connection led Cai to take up the violin. He honed his skills on Communist propaganda songs, but by the time he was 18 he was conducting his first orchestra in Beijing and exploring the musical traditions of the West.

Now, as Stanford’s Gretchen B. Kimball Director of Orchestral Studies, Cai is translating that sense of excitement and discovery to his students in Stanford’s music program. This summer he led 90 musicians from the Stanford Symphony Orchestra on its first-ever tour of Australia and New Zealand. They joined the Royal Melbourne Philharmonic Choir, performing Verdi’s Requiem to sold-out crowds in Melbourne and at Sydney’s famed opera house. Intent on exposing his students to all facets of musical culture “down under,” Cai, with his colleagues, also arranged a special meeting with a traditional Maori dance troupe where the two groups performed for one another.

“I tell my students that as musicians we’re luckier than other people, because we can express our feelings through our instrument,” Cai says. “That’s why I love conducting student orchestras. When you teach them not only technique and how to make the melody better, but also the history and inspiration behind the music, you can see it in their eyes that they’re observing and trying to share the experience.”

Sophomore Drew Camarda had played many types of music before joining the Stanford Symphony Orchestra last year, but he was new to Asian music. Cai took the time to put Camarda’s first Asian song in its historical and cultural context.

“He tries to bring the music back to where the students can understand it,” says Camarda, who is co-president of the orchestra and an international relations major. “He shows that every little piece of music has a story behind it, and if you can get in touch with that story you understand the music better.”

Cai came to the United States in 1985 to study at the New England Conservatory of Music in Boston. He was chosen to study conducting with the legendary Leonard Bernstein at Tanglewood Music Center in Massachusetts and later studied for his doctorate at the College-Conservatory of Music at the University of Cincinnati. He joined Stanford’s music faculty in 2004. That same year, he and his wife, Sheila Melvin, authored a book entitled Rhapsody in Red: How Western Classical Music Became Chinese.

Fulfilling a long-time dream of introducing Asian music to other audiences, Cai organized the first Pan-Asian Music Festival at Stanford in 2005 to encourage a free-flowing dialogue between Western and Asian musicians, composers, scholars, and audiences. The five-day celebration
“It’s so exciting the first time you hear a Beethoven symphony. It’s an emotional, revolutionary kind of music.”

of Asian music, art, and culture was co-sponsored by Stanford’s Department of Music and Asian Religions & Cultures program. The festival featured performances of classical Indian and Chinese music as well as discussions of Asian film music.

“Academically and artistically, Stanford is such a stimulating environment, and the Bay Area is so diverse,” Cai says. “There are so many people from Asian countries here; you can always find the voice and the audience you’re looking for.”

Cai plans to make the Pan-Asian Music Festival an annual event. The 2006 festival will feature the music of South Asia, including India, Pakistan, and a symposium on Islamic music. He plans to focus on Asian drumming arts in 2007 and, in 2008, his native China, where he continues to perform as a guest conductor for major orchestras.

“The purpose of the festival is to provide a platform for learning and discovery,” Cai says. “As the world becomes smaller and smaller, people want to know more than their own culture. The music world is no longer Euro-centric. My idea is to be more inclusive, to be broader about how we educate people about music and to let people see and hear it for themselves.”

Cai sees the Pan-Asian Music Festival as a key component of the new arts initiative at Stanford, which aims to link the creative arts to virtually every area of study at Stanford.

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HUMANITIES HIGHLIGHTS


Eleni Tsakopoulos-Kounalakis is joined by Josiah Ober, center, and former Greek Prime Minister Constantine Mitsotakis to celebrate the creation of the Tsakopoulos-Kounalakis Professorship in honor of Constantine Mitsotakis. Ober is the inaugural chair holder and holds joint appointments in the departments of Classics and Political Science. Photo: Steve Castillo.

Mark Otuteye was one of four H & S students to win a Marshall Scholarship. He is shown speaking at a ceremony for Stanford’s Founders’ Day. Photo: L.A. Cicero/Stanford News Service.

René Girard, professor emeritus in the Department of French and Italian, was inducted into the French Academy, a body known as the “immortals.” Photo: Stanford News Service.

Undergraduates Contribute to Mark Twain Journal

The Mark Twain Annual 2004 published the work of 14 Stanford undergraduates, including 10 freshmen. The student authors were enrolled in classes taught by Professor of English Shelley Fisher Fishkin, director of the American Studies Program and a leading Mark Twain scholar. Fishkin’s article, “Looking Over Mark Twain’s Shoulder As He Writes: Stanford Students Read The Huck Finn Manuscript,” presented student papers based on the study of digital copies of a manuscript of Adventures of Huckleberry Finn.

Tsakopoulos Family Endows Greek Studies Professorship

The Tsakopoulos family of Sacramento donated $2 million in honor of former Greek Prime Minister Constantine Mitsotakis to create a professorship supporting the study of Greek ideas in contemporary society. Matching funds from The William and Flora Hewlett Foundation’s gift to the School of Humanities and Sciences helped establish the chair, which will be known as the Tsakopoulos-Kounalakis Professorship in honor of Constantine Mitsotakis. Eleni Tsakopoulos-Kounalakis, president of AKT Development Corp., and her husband Markos Kounalakis spearheaded the family’s efforts to create the chair.

Marshall Scholarships Awarded to H & S Students

One current and two former School of Humanities and Sciences students won Marshall Scholarships, which allow them to study for two years at any British institution in any field. Mark Otuteye is a senior majoring in African American studies. Rajaie Batniji graduated in 2003 with bachelor’s and master’s degrees in history. Trevor Sutton graduated in 2003 with a bachelor’s degree in history.

René Girard Joins Ranks of “Immortals”

René Girard, the Andrew B. Hammond Professor of French Language, Literature and Civilization, Emeritus, was inducted into the French Academy. The 40-member body founded by Cardinal de Richelieu in 1635 is known as the “immortals” and regarded as the highest intellectual honor in France. Girard has taught at Stanford for 30 years. He developed a theory of culture based on the concept of “mimetic desire” as the root of violence. Girard’s theories have gained attention globally as scholars and non-academics have struggled to find an end to violence in an age of terrorism.
The Humanities encompass the study of the history, ideas, and expressions of human existence.


**Korea Foundation Endows Professorship**
The Korea Foundation pledged $2 million to endow a professorship in Korean Studies. The gift will be matched with $2 million from The William and Flora Hewlett Foundation as part of the Hewlett Challenge. This is the second endowed professorship the Korea Foundation has helped to create and will enable Stanford to add a Korean Studies scholar in the field of social sciences or humanities.

**David Kennedy Receives Undergraduate Teaching Award**
David Kennedy, the Donald J. McLachlan Professor of History, was awarded the Laurence and Naomi Carpenter Hoagland Prize for Undergraduate Teaching. A Pulitzer Prize-winning author, Kennedy’s scholarship integrates economic and cultural analysis with social and political history.

**Rinard Awarded Beinecke Scholarship**
Philosophy major Susanna M. Rinard was awarded a Beinecke Scholarship for graduate study. She has challenged a popular theory of group selection, arguing that it has internal logical flaws. The premier journal in the philosophy of biology, Biology and Philosophy, has invited her to submit an article on this topic as the sole author.

**Orgel Receives Academy Award in Literature**
Stephen Orgel, the Jackson Eli Reynolds Professor of Humanities, received an Academy Award in Literature from the American Academy of Arts and Letters. Orgel has published widely on the political and historical aspects of Renaissance literature, theater, and art history. His work is interdisciplinary and is increasingly concerned with the patronage system, the nature of representation, and performance practice in the Renaissance.

**National Endowment for the Humanities Challenge Grant**
The university announced that Stanford received a challenge grant from the National Endowment for the Humanities. The award pledges an endowment of $600,000 to support the Humanities Center’s Research Workshop Program.

**Summer Theater Presents Harold Pinter Festival**
The Stanford Summer Theater presented a monthlong Harold Pinter Festival with four plays by the British writer. Pinter exploded on the theatrical scene in the late 1950s with a flurry of plays so original and potent that a new adjective—“Pinteresque”—was coined to describe his style and influence. Stanford’s seven-year-old summer theater was founded by Rush Rehm, associate professor of drama and classics.

**Spring Migration 2005**
The Dance Division in the Department of Drama presented “Spring Migration 2005,” a concert featuring a number of commissioned works by established and emerging choreographers. The annual concert has showcased student dancers and choreographers for two decades. In 2005, Aleta Hayes, an artist in the Committee for Black Performing Arts Resident Dialogues program, created a new work for the concert.

**The Knoll Completes Renovation**
The Knoll, home to the Center for Computer Research in Music and Acoustics, completed a $9.1 million renovation, including state-of-the-art sound studios and performance space. Originally the official residence for the university president, the building was designed by famous San Francisco architect Louis Christian Mullgardt. The renovation integrated new research and studio facilities while retaining historical aspects of the building.

**Poets and Fiction Writers Named Stegner Fellows**
Five poets and five fiction writers were selected as the 2005 Wallace Stegner Fellows from a pool of approximately 1,400 applicants from 41 states in the United States and 20 countries. The two-year program was named after the acclaimed novelist and Creative Writing Program founder Wallace Stegner. Sharon May, one of the 2005 fellows, plans to complete a book of interconnected short stories about Cambodia and issues of war, memory, and multicultural identity.

**Feltziner Elected to the American Academy of Arts and Sciences**
John Feltziner, professor of English, was elected to the American Academy of Arts and Sciences. He teaches modern poetry, Jewish literature, and literary translation. During the 1970s, Feltziner developed critical approaches to poetry by civilians and soldiers from the Vietnam era and, after teaching in Israel, began to study and teach the literature that emerged from the Holocaust.
Proof of Success

The field of mathematics is home to many unsolved mysteries. Until recently, Mumford’s Conjecture was one of them.

The algebraic geometry problem first posed by Fields Medalist David Mumford had puzzled mathematicians for decades. A few years ago, however, Danish mathematician Ib Madsen visited Stanford to attend a multidisciplinary math workshop. While there, Madsen drew on interaction with attendees to develop an outline for a method that would prove the Mumford conjecture. By 2003, with help from a colleague, the proof was complete.

“The solution to this conjecture... is one of the most important recent advances in mathematics, and it used techniques from another field, algebraic topology,” says Stanford Associate Professor of Mathematics Eleny Ionel, who attended the workshop and whose own research draws from geometry and topology and is inspired by theoretical physics. “You can just sit down and talk for hours and hours. That’s when you have the breakthroughs.”

Conferences and workshops such as these are part of Stanford’s effort to create a West Coast center of mathematics that is among the best in the world. Stanford’s Mathematics Research Center organizes a steady stream of conferences, workshops, and research programs that bring together leading mathematicians from around the world. Some of these programs are in partnership with the American Institute of Mathematics. Stanford’s Mathematics Research Center also hosts the Distinguished Lecture Series, workshops for graduate students and postdoctoral fellows, and a summer camp for mathematically talented high school students.

The gatherings, in combination with other developments in the Stanford math program, are succeeding. Interest in the undergraduate program has skyrocketed, according to Professor Ralph Cohen, director of Stanford’s Mathematics Research Center.

“In the last five years, the number of our math majors has more than tripled, the enrollment in our courses has gone way up—and just the general level of excitement around campus for mathematics has increased dramatically,” Cohen says. “There’s an increased interest in math around the country, but I think here it’s more dramatic than anywhere else I know of.”

The success of Stanford’s program is so impressive that faculty members from other universities have started approaching department chair Yakov Eliashberg at conferences to ask him what the secret is. “I think it’s a lot of things,” he replies.

He goes on to cite workshops such as the one that contributed to Madsen’s discovery, along with a curriculum overhaul that started six years ago. At that time, the department began offering a sequence of three courses to entering students who had calculus experience. The sequence is a good starting point for math majors, but also a solid foundation for other disciplines around campus, from neuroscience to religious studies. Combine this flexibility with opportunities to organize lectures for the student-run Stanford University Mathematical Organization (SUMO), to join more than 100 students at weekly training sessions for the prestigious William Lowell Putnam Competition, or to work alongside faculty on original research projects, and you get an idea of the mathematics department’s winning formula.

Graduate students like Robert Lipshitz say the collaborative environment is what makes Stanford an exceptional place. “There’s a lot of discussion between faculty and students in different fields. It means that one gets a broader sense of what’s going on outside of one’s particular area of study.”
The solution to this conjecture... is one of the most important recent advances in mathematics, and it used techniques from another field, algebraic topology.

“Assistant Professor of Mathematics Doron Levy is currently collaborating with School of Medicine Professor Lei Xing, who specializes in radiation oncology, to improve treatment for cancer patients. This collaborative environment is a foundation for interdisciplinary research, as math can be used to solve difficult problems in many other fields. Faculty at Stanford now cross departmental lines to work together as part of Bio-X, a campus-wide initiative aimed at interdisciplinary study of biology, engineering, and medicine. Assistant Professor of Mathematics Doron Levy is currently collaborating with School of Medicine Professor Lei Xing, who specializes in radiation oncology, to improve treatment for cancer patients. Together, the two have devised mathematical models that help differentiate between areas of the body that need radiation and critical organs that should be avoided. A robotic arm that can apply radiation at different angles and energy levels helps them accomplish this.

Levy’s hope is that one day the computer-generated models will make quick adjustments to treatments based on changes in the body, even synchronizing with the breathing movement of a patient’s lungs.

But what really motivates him is the knowledge that solid mathematical models can be applied to a variety of different problems. He thinks Stanford provides a special environment where these applications can be discovered.

“I have not seen another place where people are so open-minded scientifically,” Levy says. “There is an openness and a desire [on the part of researchers from other fields] to see mathematicians working on their problems.”

Eleny Ionel, associate professor of mathematics.
Photo: Steve Castillo.
NATURAL SCIENCES HIGHLIGHTS


Gretchen Daily, professor of biological sciences, co-authored research forecasting the extinction of bird species. In 2005, she was elected to the National Academy of Sciences. Photo: L.A. Cicero/Stanford News Service.

Richard N. Zare, the Marguerite Blake Wilbur Professor in Natural Science, was awarded the Wolf Prize in chemistry. The prize recognized Zare for developing novel technologies in applied physical chemistry that have become vital for research at the single-molecule and subcellular levels. Zare and a team of researchers created a color-coded test to determine when protein molecules fold and unfold. The test may someday develop into a fast, affordable method for detecting antibodies and other disease-related proteins.

Conservationists Speak at Forum
Married Stanford biologists Paul and Anne Ehrlich spoke at an event entitled, “Nature’s Economy: Population, Consumption and Sustainability.” Part of Stanford’s Aurora Forum series, the discussion was moderated by Professor of Biological Sciences Gretchen Daily. The three scientists spoke about issues related to population growth, over-consumption, and global sustainability. Paul Ehrlich is the Bing Professor of Population Studies and Anne Ehrlich is a senior research scientist in biological sciences. All three faculty members are affiliated with Stanford's Center for Conservation Biology.

Biologists Forecast Bird Extinction
A study by researchers at Stanford’s Center for Conservation Biology (CCB) shows that 10 percent of all bird species will likely disappear by the year 2100, with another 15 percent very close to extinction. Based on a yearlong collection of data on all 9,787 living and 129 extinct bird species, the findings appeared in the Proceedings of the National Academy of Sciences. CCB postdoctoral researcher Cagan H. Sekercioglu is the lead author, publishing with Professor of Biological Sciences Gretchen Daily and Bing Professor of Population Studies Paul Ehrlich.

Israel-Jordan Research Collaboration Begins
Five Stanford biologists participated in the first joint biological field study carried out on both sides of the Israeli-Jordanian border. Research in this region is of particular interest to scientists because it is home to many plants, animals, and microbes that have evolved special attributes to survive in a harsh climate some 1,200 feet below sea level—the lowest elevation on Earth. Marcus Feldman, the Burnet C. and Mildred Marcus Feldman Professor of Humanities and Sciences, is the academic director for the Bridging the Rift project.

Zare Wins Wolf Prize
Richard N. Zare, the Marguerite Blake Wilbur Professor in Natural Science, won the 2005 Wolf Prize in chemistry. The prize recognized Zare for developing novel technologies in applied physical chemistry that have become vital for research at the single-molecule and subcellular levels. Zare and a team of researchers created a color-coded test to determine when protein molecules fold and unfold. The test may someday develop into a fast, affordable method for detecting antibodies and other disease-related proteins.

NATURAL SCIENCES HIGHLIGHTS

Elected to the American Philosophical Society
2004–05 Faculty Awards and Recognition*
Arthur Bienenstock, Applied Physics
Distinguished Associate Award, Department of Energy
Roger D. Blandford, Physics
Elected to the National Academy of Sciences
John Brauman, Chemistry
Elected to the American Philosophical Society
Patricia Burchat, Physics
Guggenheim Fellowship
Allan Campbell, Biological Sciences
Abbott-ASTM Lifetime Achievement Award, American Society for Microbiology
Hongjie Dai, Chemistry
Julius Springer Prize in Applied Physics
Gretchen Daily, Biological Sciences
Elected to the National Academy of Sciences
Rodolfo Dirzo, Biological Sciences
Elected to the American Academy of Arts and Sciences and the National Academy of Sciences
Justin Du Bois, Chemistry
Alfred P. Sloan Foundation Research Fellowship; Camille Dreyfus Teacher-Scholar Award
Jerome Friedman, Statistics
Elected to the American Academy of Arts and Sciences
David Goldhaber-Gordon, Physics
Presidential Early Career Award for Scientists and Engineers; David and Lucile Packard Fellowship in Science and Engineering
Iain M. Johnstone, Statistics
Elected to the National Academy of Sciences
Liqun Luo, Biological Sciences
Appointed Howard Hughes Medical Institute Investigator
Har Manoharan, Physics
Presidential Early Career Award for Scientists and Engineers
Fiorenza Micheli, Biological Sciences
Aldo Leopold Leadership Fellowship
Joan Roughgarden, Biological Sciences
Stonewall Book Award
Robert Sapolsky, Biological Sciences
Distinguished Investigator Award, National Alliance for Research on Schizophrenia and Depression

*Partial list


Gretchen Daily, professor of biological sciences, co-authored research forecasting the extinction of bird species. In 2005, she was elected to the National Academy of Sciences. Photo: L.A. Cicero/Stanford News Service.

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From evolutionary processes in ecology to DNA replication, from the evolution of the cosmos to quantum mechanics, from set theory to differential geometry, the study of science and mathematics seeks answers to some of the deepest questions in the universe.

Faculty Participate in Bioterrorism Conference
Three Stanford researchers joined 130 scientists and technical experts from industry, academia, and government at the Gordon Research Conference on Chemical and Biological Terrorism. The conference explored approaches for responding to and preventing terrorism. Stanford participants included M argaret Kosal, a science fellow at the Center for International Security and Cooperation; Steven Block, a professor of applied physics and biological sciences; and M ark M usen, a professor of medicine.

Whole Earth Systems Symposium
Stanford colleagues organized a symposium in honor of Stephen H. Schneider, the M elvin and Joan Lane Professor for Interdisciplinary Environmental Studies. The three-day event drew more than 250 policymakers, scholars, and government leaders from around the world to discuss climate change and its potential impact on the planet. Schneider, a leading climatologist, was praised for his pioneering research and ability to communicate complex climate issues to the public.

Scientists Make Recommendations for Coral Reefs
Two Stanford researchers collaborated with an international team to author a warning about coral reef health in the journal Science. Fiorenza Micheli, an assistant professor of biological sciences at Hopkins M arine Station, and graduate student Carrie Kappel outlined measures to conserve reefs in an essay co-authored by nine additional researchers from the United States and Australia. The team focused on reef systems in H awaii and Florida.

Brauman Named Associate Dean for Independent Programs
John Brauman, the J. G. Jackson and C. J. Wood Professor in Chemistry, was named the associate dean for independent programs for a three-year term beginning on September 1, 2005. Brauman formerly chaired the chemistry department and served as the senior associate dean for natural sciences in the School of Humanities and Sciences.

Walter J. Gores Award
Virginia M atzek, a biological sciences doctoral candidate, received the Walter J. Gores Award for Excellence in Teaching. The award is the university’s highest teaching honor. M atzek was recognized for her work as a graduate teaching consultant and for her charisma in teaching the popular Restoration Ecology course.

Bluefin Tuna Study
A team of marine scientists from Stanford University and the M onterey Bay Aquarium concluded that tighter restrictions should be placed on fishing to protect the feeding and breeding grounds of Atlantic bluefin tuna, one of the most commercially valuable fish in the sea. Their study, published in the journal Nature, offers substantial evidence that significant changes need to be made in how Atlantic bluefin tuna fisheries are managed internationally and in the United States. Barbara A. Block, the Charles and Elizabeth Prothro Professor in M arine Sciences at Hopkins M arine Station, was the lead author.

Undergraduates Receive Dean’s Award
Four natural sciences undergraduates received the 2005 Dean’s Award for Academic Accomplishment. The award, given to 10 students in 2005, honors outstanding academic work. Recipients included: Phillip Dumesic, a junior biological sciences major, for his work on the function of kinases involved in epithelial growth and differentiation; Jason H om, a senior biological sciences major, for research on the basal ganglia; Victoria Parikh, a senior human biology major, for work on the endocrine system; and James Schroeder Jr., a senior biological sciences major, for his use of magnetic resonance spectroscopy in studying tissue metabolism.

Galison Delivers Hofstadter Lecture
Peter Galison, the M allinnckrodt Professor of the History of Science and of Physics at Harvard University, delivered the Robert Hofstadter M emorial Lecture. His talk, entitled “The Assassin of Relativity,” explored the factors that influenced Einstein as he formulated his groundbreaking theory. Galison was the thirteenth speaker chosen for the lecture series hosted by the Stanford Department of Physics to commemorate the late Nobel Prize-winning physicist Robert Hofstadter, who was a member of the Stanford faculty from 1950 to 1990.

New Detection Method for Identification of Invasive Plants
Stanford and Carnegie Institution scientists used aerial imaging to detect the spread of two invasive plant species in a Hawai’i rainforest. Researchers took measurements with the NASA Airborne Visible and Infrared Imaging Spectrometer from aboard a high-altitude aircraft. The study was reported in the Proceedings of the National Academy of Sciences. Peter Vitousek, a professor of biological sciences and the Clifford G. M orrison Professor in Population and Resource Studies, co-authored the article.

Stanford Affiliates Elected to National Academy of Sciences
Four H & S professors were elected to the National Academy of Sciences: Iain M. Johnstone, the M arjorie M hoon Fair Professor in Quantitative Science and vice-dean for academic planning in H & S; Roger D. Blandford, professor of physics and the Pehong and A dele Chen Director of the Kavli Institute for Particle Astrophysics and Cosmology; Gretchen C. Daily, professor of biological sciences and a senior fellow at the Institute for International Studies; and Edward I. Solomon, the M onroe E. Spaght Professor of Chemistry.

Goldwater Scholarships
Stanford undergraduates won Goldwater Scholarships, which are awarded on the basis of academic merit. Biological Sciences majors Phillip A. Dumesic and Devarati M itra, chemistry and math major A rvind Ravi, and physics and math major Philip A. Tanedo received the scholarship for the 2005–06 academic year. Colleges and universities nationwide nominate mathematics, science, and engineering students for the program.

Assistant Professor Receives Seed Grant
Jennifer Kohler, assistant professor of chemistry, received an Office of Technology Licensing (OTL) Research Incentive Grant for her project, “Development of a Secretome Protein-Protein Interaction Assay.” She was one of 25 junior faculty members to receive an OTL grant, awarded to promising projects in the early stages of development. The funds are generated from the royalties on Stanford University licenses and patents.

Biologists Find Poisonous Ants in the Amazon
Professor of Biological Sciences Deborah M. Gordon and colleagues identified the first known ant species that produces its own natural herbicide. The Devil’s Garden ants inject a poison called formic acid into the leaves of unwanted plants, which begin to die within 24 hours. Graduate student M egan E. Frederickson led the four-year field study in the Amazon jungle of western Peru that produced the findings, published in the journal Nature.

Nobel Prize Winner Has Stanford Roots
Theodor W. H aensch was awarded the Nobel Prize in Physics for his “contributions to the development of laser-based precision spectroscopy, including the optical frequency comb technique.” H aensch began the work that garnered him the honor during his 16 years at Stanford. He was a postdoctoral researcher and visiting scholar from 1970 to 1972, an assistant professor from 1972 to 1975, and a full professor from 1975 to 1986.

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Stanford undergraduates won Goldwater Scholarships, which are awarded on the basis of academic merit. Biological Sciences majors Phillip A. Dumesic and Devarati M itra, chemistry and math major A rvind Ravi, and physics and math major Philip A. Tanedo received the scholarship for the 2005–06 academic year. Colleges and universities nationwide nominate mathematics, science, and engineering students for the program.

Assistant Professor Receives Seed Grant
Jennifer Kohler, assistant professor of chemistry, received an Office of Technology Licensing (OTL) Research Incentive Grant for her project, “Development of a Secretome Protein-Protein Interaction Assay.” She was one of 25 junior faculty members to receive an OTL grant, awarded to promising projects in the early stages of development. The funds are generated from the royalties on Stanford University licenses and patents.

Biologists Find Poisonous Ants in the Amazon
Professor of Biological Sciences Deborah M. Gordon and colleagues identified the first known ant species that produces its own natural herbicide. The Devil’s Garden ants inject a poison called formic acid into the leaves of unwanted plants, which begin to die within 24 hours. Graduate student M egan E. Frederickson led the four-year field study in the Amazon jungle of western Peru that produced the findings, published in the journal Nature.

Nobel Prize Winner Has Stanford Roots
Theodor W. H aensch was awarded the Nobel Prize in Physics for his “contributions to the development of laser-based precision spectroscopy, including the optical frequency comb technique.” H aensch began the work that garnered him the honor during his 16 years at Stanford. He was a postdoctoral researcher and visiting scholar from 1970 to 1972, an assistant professor from 1972 to 1975, and a full professor from 1975 to 1986.
Scientists Study Earth’s Interior

Geophysicists working on the KamLAND (Kamioka Liquid scintillator Anti-NuEtrino Detector) project developed a new tool for studying the Earth’s interior. The collaboration of international scientists uses a detector in Japan to measure “geoneutrinos” — elementary particles that emanate from nuclear reactors and from the Earth’s interior when uranium and thorium isotopes undergo a cascade of heat-generating radioactive decay processes. Stanford physics professor Giorgio Gratta is a researcher and spokesperson for the project.

Scientists Trigger Male Behavior in Female Flies

Biologists found that turning on a single male-specific gene produces a female fruit fly that displays male courtship behaviors. A study co-authored by Dr. M. orris Herzenz Professor in Biology Bruce Baker and Stanford graduate student Devanand S. Manoli, as well as researchers from Brandeis and Oregon State Universities, was published in the journal Nature.

Science and Technology Highlights (cont.)

New Microscope Tracks Movement of Proteins

A Stanford University research team designed the first microscope sensitive enough to track the real-time motion of a single protein down to the level of its individual atoms. Led by Steven Block, professor of applied physics and biological sciences, the scientists used the instrument to follow the mechanism by which genes are copied from DNA. According to Block, the study produced “the highest-resolution measurement ever made of an individual protein” and provides insights into age-old debates on basic cellular processes. The findings were published in Nature and Physical Review Letters.

Natural Sciences Highlights (cont.)

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From left, Professor Mark Schnitzer with graduate students and co-authors Juergen Jung, Eric Cocker, and Benjamin Flusberg, who holds the microscope that will make possible the observation of nerve cells and capillaries inside living organisms. Photo: L.A. Cicero/Stanford News Service.

PBS Documentary Features Stanford Physicists

NOVA, the acclaimed science television series, visited Stanford to film physicists at the Stanford Linear Accelerator Center (SLAC) for a program that aired in October. The footage was for “E=mc²,” a documentary film about Einstein’s famous equation. The NOVA team filmed work on SLAC’s BaBar project, which attempts to understand why matter exists in the universe. Patricia Burchat, professor of physics, is among the faculty collaborating on the BaBar project.

Scientists Develop New Methods for Creating Carbon Nanotubes

Associate Professor of Chemistry Hongjie Dai and colleagues developed a process for growing vertical single-walled carbon nanotubes, a breakthrough with applications in electronic and biological products. Photo: L.A. Cicero/Stanford News Service.

Haj-Hassan was named Rhodes Scholar

Tanya Haj-Hassan was named a Rhodes Scholar. Stanford seniors Elizabeth W. Mayne and Elizabeth Prothro Professor in Marine Biology, Barbara Block, the Charles Stark Draper Professor of Engineering, and Elizabeth Prothro Professor in Marine Biology, Barbara Block, the Charles Stark Draper Professor of Engineering, and Tanya Haj-Hassan were named Rhodes Scholars. Only 32 students were chosen to receive the honor nationwide, and all will participate in laboratory research as she works toward her master of science degree in physiology.

American Academy of Arts and Sciences

Jerome H. Friedman, professor of statistics at Stanford since 1982 and a staff member at the Stanford Linear Accelerator Center since 1972, was elected to the American Academy of Arts and Sciences. He is one of the world’s leading researchers in statistics and data mining.

Yanofsky Receives National Medal of Science

Stanford biologist Charles Yanofsky was awarded the National Medal of Science, the nation’s highest scientific honor. He was honored by President George Bush at a White House ceremony. Yanofsky, the Dr. Morris Herstein Professor of Biology, Emeritus, is known for establishing the “one gene, one protein” relationship; for demonstrating the RNA-based regulation of gene expression; and for his early discovery of colinearity, the linear relationship between the structures of genes and their protein products. He continues to have an active role at Stanford.

Patricia Burchat, professor of physics, is among the faculty collaborating on a project to understand why matter exists in the universe. Photo courtesy of Stanford Department of Physics.


Terman Fellowships

Four assistant professors in the School of Humanities and Sciences were named Terman Fellows for the 2005–06 academic year. The awards, founded by William R. Hewlett and David Packard, are presented to promising young scientists and engineers. Winners include Dominique Bergmann (Biological Sciences), Simon Brendle (Mathematics), Jennifer Kohler (Chemistry), and Kang Shen (Biological Sciences).
Why do men still dominate the most desirable positions in society? Although there have been significant strides in gender equality, some occupations remain virtually all-female or nearly all-male.

Stanford Professor of Sociology David Grusky and his co-author Maria Charles examine this persistence of gender inequality in their book Occupational Ghettoes: The Worldwide Segregation of Women and Men. Their research investigates the extent of segregation in 10 nations to reveal the underlying patterns of division between the sexes.

"The persistence of such extreme segregation is one of the great puzzles of our time," Grusky says. "In all countries, the commitment to gender egalitarianism remains partial and incomplete, as women and men continue to be regarded as fundamentally different in their tastes and skills. This belief accounts for the special staying power of gender segregation throughout the world."

Grusky was among a diverse group of Stanford faculty addressing the problems of inequality at a conference in May 2005 hosted by Stanford’s Institute for Research in the Social Sciences (IRiSS). Introducing the Gender and Inequality session, Grusky was joined by colleagues from other disciplines to examine inequality in its many forms, including health care, criminal justice, and race in society.

"Great universities have a responsibility to solve global challenges," Stanford Provost John Etchemendy said in his introductory remarks for the conference. "And such challenges are solved at the intersection of the social sciences."

IRiSS is tackling these global challenges head-on. Following the provost’s comments, IRiSS announced the formation of a new Center for the Study of Poverty and Inequality. It is the first of three large-scale, multidisciplinary research projects that reflect IRiSS’s commitment to provide leadership on the pressing issues of our time.

The second research project, also launched in 2005, delves into our understanding of institutions and governance. As research shows, institutions matter—whether societies are democratic or authoritarian, rich or poor, technologically advanced or underdeveloped, or characterized by social equality or inequality. IRiSS seeks to address the questions of which institutions matter and why.

"Most technological innovation takes place in a handful of wealthy, democratic countries," says Stephen Haber, the A.A. and Jeanne Welch Milligan Professor, who is among the IRiSS faculty leading this research. "Do technologically innovative societies produce democratic institutions or is there some underlying characteristic that gives rise to both democracy and technological innovation? By applying economics, law, political science, and sociology, we are answering these types of questions and revolutionizing social science research through the study of institutions."

Haber points out that the study of institutions is growing in importance among policy makers who want to strengthen political and economic systems. Research on institutions has already been influential among policy makers at multilateral aid organizations that want to reform economies and political systems of weak states in Central Asia, Africa, and Eastern Europe. Haber’s view is underscored by the World Bank’s recent World Development Reports that stress the reform of political institutions as a vehicle for creating open access to economic opportunity and social mobility.

IRiSS’s third multidisciplinary project, expected to launch in 2007, is in biobehavioral science. The program grew from an awareness that addressing medical and biotechnical problems requires more than natural science discoveries and technical innovations. Social science research has a critical role in tackling issues such as AIDS and HIV treatment, and...
Social science research has a critical role in tackling issues such as AIDS and HIV treatment, aging, genetically based medical treatments, and cultural, political, and social factors in epidemics, among other issues.

IRiSS expects to advance our understanding of other areas of bio-social science by bringing together faculty from law, medicine, and business, in addition to social science disciplines that span psychology, economics, political science, sociology, communication, and anthropology.

Also in the planning stages is a state-of-the-art IRiSS facility. The new space will provide researchers with access to new computational capabilities, statistical consulting, specialized diagnostic equipment, and special laboratory spaces for research that link the social sciences with collaborators in other disciplines throughout the world.
Albert Chang Wins Truman Scholarship

Stanford junior Albert Chang, a political science and East Asian studies double major, was one of 75 national recipients of the 2005 Truman Scholarship. Chang was honored for his research on U.S. foreign policy.

Krasner Appointed to State Department Think Tank

Stephen D. Krasner, professor of political science and the Graham H. Stuart Professor of International Relations, was appointed director of policy planning in the State Department’s internal think tank. Krasner, who is deputy director of the Freeman Spogli Institute for International Studies, was named by Secretary of State Condoleezza Rice, Stanford’s former provost. Krasner’s new position holds a rank equivalent to an assistant secretary of state.

Krasner’s Role in U.S. Foreign Policy

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Carroll Delaney’s Book Inspires Opera

Carol Delaney’s book Abraham on Trial, a political science and cultural and social anthropology, emerita, inspired the production of an opera by the same title. Two performances at The Junction in Cambridge, England, sold out, and the opera will be on tour in 2006.

The opera, which inspired Delaney’s book, examines the biblical story of Abraham, gathering evidence from Jewish, Christian, and Muslim interpretations, from a modern-day trial of a father who sacrificed his child in obedience to God’s voice.

Researchers Show Emotion Impacts Economic Decisions

Psychology professor Brian Knutson and Camelia Kuhnen, a doctoral candidate at the Graduate School of Business, have shown that areas of the brain linked to excitement and anxiety influence irrational financial decisions. Their study was published in the September issue of Neuron.

Clarendon Lecture

Paul Milgrom, the Shirley R. and Leonard W. Ely Jr. Professor of Humanities and Sciences, presented his work, “Market design: from theory and laboratory to practice,” at Oxford’s prestigious Clarendon lectures.

Social Sciences HIGHLIGHTS

Social Sciences 2004-05 Faculty Awards and Recognition*

Masahiko Aoki, Economics, Emeritus
President-Elect, International Economic Association

Kenneth J. Arrow, Economics, Emeritus
National Medal of Science

Albert Bandura, Psychology
Award for Outstanding Lifetime Contributions to Psychology, American Psychological Association; James McKeen Cattell Fellow Award

Lawrence Bobo, Sociology
Elected to the National Academy of Sciences

Gordon Bower, Psychology
Elected to the American Philosophical Society

David Brady, Political Science
Richard W. Lyman Award for exceptional volunteer service

Avner Greif, Economics
Elected to the American Academy of Arts and Sciences; Fellow, Canadian Institute for Advanced Research

Kalanit Grill-Spector, Psychology
Alfred P. Sloan Foundation Research Fellowship

Ian Hodder, Cultural and Social Anthropology
Guggenheim Fellowship

Sarah Jain, Anthropology
The Journal of Cultural Anthropology’s Cultural Horizons Prize

Stephen D. Krasner, Political Science
Appointed director of policy planning for the U.S. State Department

Mark Lepper, Psychology
Elected to the American Academy of Arts and Sciences

Jonathan D. Levin, Economics
Alfred P. Sloan Foundation Research Fellowship

Terry Moe, Political Science
Fordham Prize for Excellence in Education

H. Jazmin Quill, Psychology
Lloyd W. Dinkespel Award

Cecilia Ridgeway, Sociology
Cooley-Mead Award for Career Contributions to Social Psychology, American Sociological Association

*Partial list
From a critical study of psychology and of social, political, and economic events, the social sciences aim to apply objective analysis to a broad range of social issues and cross-cultural perspectives on the human condition.

Zimbardo Awarded Vision 97 Award for 2005
Philip Zimbardo, professor emeritus of psychology, was awarded the Dagmar and Václav Havel Foundation Vision 97 Award for 2005. Zimbardo was honored for “his efforts to enhance the human condition by countering evil, ignorance, and shyness through research, teaching, and social action.”

Social Science Students Win Marshall Scholarships
Two social science students were awarded 2005 Marshall Scholarships. Sheena Chesnut, a political science major, will pursue a master’s degree at Oxford University. Joe Shapiro, who graduated Phi Beta Kappa with distinction in economics, plans to complete a master’s degree in development studies at Oxford. Financed by the British government, Marshall Scholarships provide an opportunity for outstanding American students to continue their studies for two to three years at a British institution of their choice.

Tomz Awarded NSF Grant
Michael Tomz, assistant professor of political science, was awarded a Faculty Early Career Development Program (CAREER) grant by the National Science Foundation. The five-year grant has been given to only three other political scientists since the program was established in 1994. His research will examine how politicians and voters think about making and breaking international commitments. Tomz also will develop survey software that could be used by teachers, researchers, and the private sector.

Political Science Professors Consulted on Iraq
An article in the National Journal detailed how Political Science Professor James Fearon, the Theodore and Frances Geballe Professor in the School of Humanities and Sciences, and David Laitin, the James T. Watkins IV and Elise V. Watkins Professor, are consulted by U.S. Army officials about the situation in Iraq. Army Col. Bill Hix, the chief of strategy for multinational forces in Iraq, initiated a conversation during the spring with Laitin and Fearon about how—and how quickly—a low-grade civil war can become full-blown. Laitin and Fearon have been widely quoted in the media on the situation in Iraq.

Documentary Aired on PBS
Big Enough, an award-winning documentary by Jan Krawitz, a professor of communication, was broadcast on the public television program P.O.V. The film is a sequel to Krawitz’s 1982 Emmy-nominated documentary Little People, which looked at the lives and experiences of dwarves. Krawitz teaches in the graduate documentary film and video program.

Junior Faculty Receive Seed Grants
Six junior faculty received Office of Technology Licensing Research Incentive Grants, which are awarded to promising research projects in the early stages of development. Assistant sociology professors Hennig Hillmann and Rebecca Sandefur, along with assistant economics professor Aprajit M. Ahajan, received individual grants for their research. Anthropology professors Rebecca Bliege Bird, Douglas Bird, and James Holland Jones were jointly awarded a grant. Funding for the grants comes from royalties on Stanford University licenses and patents.

Quill Wins Dinkelspiel Award
H. Jazmin Quill, lecturer in the Psychology Department, was one of four recipients of the Lloyd W. Dinkelspiel Award. Quill was recognized for her leadership in program development and curriculum design as co-director of the Psychology One Program. She was cited for her enthusiasm and joy in teaching and fostering excellence in scholarship, intellectual excitement, and a passion for the study of psychology.

Economics Professors Present at World Econometric Congress
Susan Athey, the Holbrook Working Professor in Commodity Price Studies, and Ilya Segal, The Roy and Betty Anderson Professor, were invited to give lectures for the 9th World Congress of the Econometric Society at University College of London. Athey presented her paper on empirical models of auctions, and Segal presented a paper on communication in economic mechanisms.

Professor of Cultural and Social Anthropology Joins Stanford
Lynn M. Eskell was recruited to Stanford from Columbia University. A professor of cultural and social anthropology, M. Eskell’s work spans a broad range of fields, including Egyptian archaeology, ethnography in South Africa, sociopolitics, gender, feminism, and ethics. She is a founding editor of the Journal of Social Archaeology. Her current research examines the constructs of natural and cultural heritage and the related discourses of empowerment around the Kruger National Park in South Africa. Another project is focused on the social constitution of the figurine worlds at Çatalhöyük, Turkey.

Study Shows Playing Music Improves Language Development
Two Stanford studies showed that playing musical instruments improves language development by making it easier to detect differences in word syllables. Nadine Gaab, a former Stanford postdoctoral fellow, presented the findings at the Society for Neuroscience’s annual meeting in 2005. Gaab conducted the experiments in 2004 as a member of the Stanford psychology department.

Journalists Discuss Post-9/11 Media Coverage
Media analysts and reporters for the New York Times, the Washington Post, and the Atlantic Monthly discussed the state of American journalism post-9/11 at the 2005 Carlos M. Cleaty M. emorial Symposium on the Press. The event featured panelists including Philip Taubman, Washington bureau chief of the New York Times and a Stanford alumnus. The symposium was sponsored by the Department of Communication and moderated by Shanto Iyengar, the Harry and Norman Chandler Professor in Communication.


Political Science Student Receives Dean’s Award
Gabriel Swank, a senior political science major, received the 2005 Dean’s Award for Academic Accomplishment. The award, given to 10 students in 2005, is based on nominations submitted by faculty and staff members who work closely with undergraduates in their academic endeavors. Swank was honored for his work on economic policy in the European Union.

Social Sciences 2004–05 Faculty Awards and Recognition* (cont.)

Lee Ross, Psychology
William James Fellow Award, American Psychological Society

Paul M. Sniderman, Political Science
Elected to the American Association for the Advancement of Science

Michael Tomz, Political Science
Alban V. Cox Medal; National Science Foundation Early Career Development Award

Anthony Wagner, Psychology
Alfred P. Sloan Foundation Research Fellowship

Philip Zimbardo, Psychology, Emeritus
Dagmar and Václav Havel Foundation Vision 97 Award

*Partial list
Breakthroughs in genetics can provide anthropologists with valuable insights into what happened at the dawn of civilization. Genes interact with the environment to influence appearance, behavior, and mental faculties. By isolating a gene and finding out when it evolved, scientists can obtain clues that help them to determine when humans developed certain skills, and possibly what triggered a change in behavior.

“I’m very excited about this gene work,” says Richard Klein, a professor of anthropological sciences at Stanford, who has traveled to South Africa at least once a year for the past 35 years to study changes that have spurred human creativity. “The technology is just amazing.”

Technology also played a role in a project involving Jennifer Trimble, assistant professor of classics. Trimble advised Stanford’s computer science and mechanical engineering departments on a project using laser range finder technology to scan fragments of a giant, third century C.E. map of Rome. The map revealed a striking mixed-use approach to urban planning, which Trimble also finds in her excavation of the Forum in Rome. Leading a team of graduate and undergraduate students, Trimble’s goal in the dig is to explore the interaction of ancient commercial, religious, and monumental space around the edge of the Forum, which can have relevance to modern-day urban planning.

While their research takes them to different parts of the world, poses different questions, and reveals different outcomes, Klein and Trimble find common ground at the Stanford Archaeology Center. The center brings together faculty from many disciplines to increase knowledge and understanding of our human past and shed light on its relevance to the present and future.

The center represents the pinnacle of Stanford’s commitment to interdisciplinary studies, says Ian Hodder, the Dunlevie Family Professor and former chair of the cultural and social anthropology department. Founded in 2000, the Stanford Archaeology Center draws on faculty and resources from anthropological sciences, art, biological sciences, classics, cultural and social anthropology, geology, geophysics, mechanical engineering, computer science, history, and physics to set a new interdisciplinary standard for teaching, research, and fieldwork.

“No field is quite as broad, ranging from ancient art and texts to DNA analysis of ancient bones,” says Hodder, who leads an international team of archaeologists at the 9,000-year-old site of Çatalhöyük in central Turkey, regarded as the most important early Neolithic site in the world. “The center is a wonderful opportunity for the university to get students to appreciate how these different disciplines can work together. As an archaeologist, you don’t have to be either a humanist or a scientist. You can be both.”

In this collaborative spirit, the center established the first online archaeology journal in the United States and a monthly public lecture series that brings top scholars to campus. Topics range from early humans in Africa to discoveries made in Chinese archaeology since China opened to outsiders nearly 30 years ago.

The center began admitting graduate students in 2000 and established an undergraduate major in archaeology in 2001. Since then, it has experienced rapid expansion, including a new facility. In 2005, the program moved to Building 500 on Stanford’s Main Quad, with nearly 15,000 square feet of newly renovated lecture halls, seminar rooms, offices, and research laboratories for fieldwork, teaching, and research.

The program’s field projects are underway in Italy, Turkey, Mexico, Peru, Switzerland, and the United States—including one in San Francisco’s Presidio. They involve universities worldwide and have attracted participation from students from dozens of countries.

“Each year, close to one hundred students go on our digs—most of them Stanford undergraduates,” says Hodder. “These digs are enormous opportunities for travel and learning for students, providing
“Each year, close to one hundred students go on our digs—most of them Stanford undergraduates.”

experiences that shape and enrich their lives for years to come.”

One such dig in Sicily is led by Ian Morris, director of the Stanford Archaeology Center and the Jean and Rebecca Willard Professor in Classics and professor of history. The Stanford portion of the dig is designed as a training program for students new to archaeology.

The excavation examines imperialism and cultural interaction among indigenous Sicilians and their Greek colonizers at Monte Polizzo, a sixth century B.C.E. town near the western tip of Sicily. The excavation is one of the largest archaeological projects in the western Mediterranean, with a staff of more than 80 people from the United States, Italy, Canada, Britain, Spain, Germany, Sweden, and Norway.

Covering an area the size of 20 football fields, littered with ancient wall and pottery fragments, the Monte Polizzo dig examines the cultural impact of Greeks and Phoenicians who arrived in the area more than 2,600 years ago. Focusing on religious findings, Morris’s research has uncovered clues as to how the Sicilians may have managed to hold on to their customs in the face of colonial conquest.

“How do native populations deal with military and political assimilation?” asks Morris. “Were the locals copying Greek culture, actively resisting it, or creating a whole new culture? These are the same questions asked of British colonial rule in the eighteenth and nineteenth centuries, and the same questions we face with globalization today.”

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Barbara D. Finberg, a Stanford alumna and a former member of the university's Board of Trustees, passed away in March after a long battle with cancer. Finberg, a tireless advocate for the university after her graduation in 1949, spent much of her career at the Carnegie Corporation of New York, from which she retired as executive vice president in 1997. In 1965, she initiated a Carnegie grant in early childhood education, which included the planning and launching of Sesame Street for PBS. Early in her career, she worked for the U.S. State Department and for the Institute of International Education. She was vice president of New York-based MEM Associates, a consultancy for philanthropy and nonprofit organizations, at the time of her death.

Finberg was an active alumna of Stanford, where her mother, aunt, and brother also studied. She was elected to the Board of Trustees in 1976 and served for 10 years, including five as a board vice president.

Finberg also was involved with the Alumni Executive Board and the advisory councils to Stanford’s libraries, the School of Humanities and Sciences, the Center for Comparative Studies in Race and Ethnicity, the Stanford in Washington program, and the Institute for Research on Women and Gender (IRWG). At the time of her death, she served as chair of the School of Humanities and Sciences Advisory Council and chair of the board of Stanford in Washington. In 1988, Finberg was awarded the Gold Spike, the university’s highest honor for volunteerism.

Finberg personally supported a number of university programs. Her gifts included the endowment of the IRWG directorship, which bears her name; a scholarship fund for undergraduates studying international relations; and a fund for undergraduates studying international security.

Conference Examines Feminist Scholarship and Influence of Women on the Sciences

The Institute for Research on Women and Gender hosted two conferences in April. The first, entitled “The Knowledge Revolution,” was held to commemorate the institute’s thirtieth anniversary and explored how feminist scholarship has changed the nature of knowledge since its inception. Topics included veiling in the Middle East, the bio-politics of late motherhood, raising boys in the twenty-first century, and feminist scholarship’s impact on how society views art. The second conference looked at how women are advancing and fostering creative approaches in the fields of science, medicine, and engineering. Speakers included Tatiana Butovitsch Temm of Volvo, who talked about the company’s built-for-females concept car.

Bill Lane Endows Center to Study the West

Stanford alumnus L. W. “Bill” Lane Jr., ’42, gave $5 million to endow the Center for the Study of the North American West. His gift, matched with $4 million from The William and Flora Hewlett Foundation, will support faculty, postdoctoral fellows, graduate students, regional conferences, and undergraduate research opportunities. Throughout the year, the center hosts a variety of public forums dedicated to fostering multidisciplinary western scholarship. In 2005, one was held on western states’ influence in politics and culture and another on direct democracy and voter participation.

Cantor Arts Center Hosts Revolutionary Art Exhibit

Revolutionary Tides: The Art of the Political Poster, 1914-1989, was organized by the Cantor Arts Center with guest curator Jeffrey Schnapp from the Stanford Humanities Lab. The exhibition examined the key role played by crowds in modern politics and society from World War I to the fall of the Berlin Wall, and brought together more than 100 masterpieces from the poster collections of the Hoover Institution at Stanford and The Wolfsonian-Florida International University in Miami Beach.

Innovative Exhibition Brings Contemporary Chinese Artists to Stanford

Organized by the Cantor Arts Center by guest curator Britta Erickson, the exhibition On the Edge: Contemporary Chinese Artists Encounter the West premiered at Stanford University from January 26 to May 1, 2005, then traveled to other U.S. venues. Zhang Huan, “My New York: #4,” 2002, Chromogenic print.
Students Win Academy Award

Graduate Students Ben Wu and Erin Hudson received a student Academy Award presented by the Academy of Motion Picture Arts and Sciences at a ceremony in Los Angeles. Their documentary, Unhitched, tells the story of the low-income residents of Faerie Ring Campground and RV Park in a wealthy area of Northern California. The film was screened at several prestigious film festivals.

Bing O Versus Studies Offers Program in South Africa

The Bing O Versus Studies Program announced an opportunity for students to study post-apartheid community reconstruction in Cape Town, South Africa, during winter quarter 2006. The 10-week program emphasizes health-focused reconstruction and development. Timothy Stanton, senior lecturer in health research and policy at the School of Medicine, leads the program.

Stanford Holds Math Camp

The Stanford University Mathematics Camp (SUMaC) hosted the twelfth annual Stanford University Mathematics Camp (SUMaC). Founded and directed by professor Rafe Mazzeo and co-directed by Dr. Rick Sommer of the Educational Program for Mathematically Gifted Youth, the camp brings mathematically gifted high school students from around the world to campus for an intensive four-week program. The students attend lectures, conduct research projects, solve problems in group sessions, receive individual tutoring, and socialize with like-minded peers. Stanford faculty and graduate students staff the camp.

Faculty Discuss Social Implications of Hurricane Katrina

In a four-part discussion series open to the public, Stanford faculty discussed the race and class issues raised by Hurricane Katrina. Scholars from a variety of social science departments, as well as the graduate schools of law and business, joined in the discussion. The series was sponsored by the Center for Comparative Studies in Race and Ethnicity (CCSRE) and the Institute for Research in the Social Sciences (IRiSS).

Support for the Martin Luther King Jr. Institute

The Mumford Family-Agape Foundation pledged $1 million to help create a Martin Luther King Jr. Research and Education Institute at Stanford. The gift adds to the $1 million from NFL Hall of Famer Ronnie Lott and his charitable organization, All Stars Helping Kids, and $1 million in matching funds from The William and Flora Hewlett Foundation. The institute will focus on issues of social justice, social change, and social reconciliation, and will allow King’s teachings to be disseminated to future generations.

Justice Examined at Memorial Conference

Scholars discussed the link between gender and social justice at a conference honoring Susan Moller Okin, a Stanford professor and renowned political philosopher who died in 2004. Topics addressed at the two-and-a-half-day conference included gender in the developing world, theories of justice and the family, and gender and religion. The event was organized by the Barbara and Bowen H. “Buzz” McCoy M.Coy Program in Ethics in Society, which Okin directed from 1993 to 1996.

MIRISS Holds Conference on Inequality

The Institute for Research in the Social Sciences (IRiSS) hosted a conference on issues of social, racial, and gender-based inequality. Speakers from a wide range of academic disciplines shared their perspectives on topics such as criminal justice, health care, race in America, and gender. Faculty presenters included Paula England, professor of sociology; Lawrence Bobo, the Martin Luther King Jr. Centennial Professor; and Donald Barr, associate professor of sociology.

Stanford Holds Math Camp

The Stanford University Mathematics Camp (SUMaC) hosted the twelfth annual Stanford University Mathematics Camp (SUMaC). Founded and directed by professor Rafe Mazzeo and co-directed by Dr. Rick Sommer of the Educational Program for Gifted Youth, the camp brings mathematically gifted high school students from around the world to campus for an intensive four-week program. The students attend lectures, conduct research projects, solve problems in group sessions, receive individual tutoring, and socialize with like-minded peers. Stanford faculty and graduate students staff the camp.

Knight Fellowship Establishes Prize for Western Environmental Journalism

Stanford’s Knight Fellowships for Professional Journalists program, in partnership with the Bill Lane Center for the Study of the North American West, established the Risser Prize for Western Environmental Journalism. The award honors James Risser, director of the Knight program from 1985 to 2000. The prize will be awarded for environmental reporting covering issues in Western Canada, Mexico, and the United States.

Lawrence Bobo, right, the Martin Luther King, Jr. Centennial Professor and Al Camarillo, the Miriam and Peter Haas Centennial Professor in Public Service, spoke at “Confronting Katrina: Race, Class, and Disaster in American Society.” Bobo is the director of the Center for Comparative Studies in Race and Ethnicity (CCSRE), which sponsored the lecture series. Photo: L.A. Cicero/Stanford News Service.

Lawrence Bobo, right, the Martin Luther King, Jr. Centennial Professor and Al Camarillo, the Miriam and Peter Haas Centennial Professor in Public Service, spoke at “Confronting Katrina: Race, Class, and Disaster in American Society.” Bobo is the director of the Center for Comparative Studies in Race and Ethnicity (CCSRE), which sponsored the lecture series. Photo: L.A. Cicero/Stanford News Service.

Erin Hudson received a student Academy Award presented by the Academy of Motion Picture Arts and Sciences at a ceremony in Los Angeles. Their documentary, Unhitched, tells the story of the low-income residents of Faerie Ring Campground and RV Park in a wealthy area of Northern California. The film was screened at several prestigious film festivals.

Lawrence Bobo, right, the Martin Luther King, Jr. Centennial Professor and Al Camarillo, the Miriam and Peter Haas Centennial Professor in Public Service, spoke at “Confronting Katrina: Race, Class, and Disaster in American Society.” Bobo is the director of the Center for Comparative Studies in Race and Ethnicity (CCSRE), which sponsored the lecture series. Photo: L.A. Cicero/Stanford News Service.

Rafe Mazzeo, professor of mathematics and founder and director of the Stanford University Mathematics Camp for mathematically gifted high school students. Photo courtesy of Rafe Mazzeo.
Field Named Jasper Ridge Director
Christopher Field, professor of biological sciences, was appointed the first faculty director of Stanford’s Jasper Ridge Biological Preserve, a 1,189-acre research site in the foothills west of campus. The preserve is home to 67 ongoing field studies ranging from global climate change to geophysics. Field, a leader in global ecology, conducts research on the carbon cycle at the preserve. Philippe Cohen, administrative director of Jasper Ridge, continues to manage the preserve’s day-to-day operations.

Gift Endows Overseas Program
Longtime Stanford supporters Helen and Peter Bing, ’55, made a gift to endow Stanford’s Overseas Studies Program, which was renamed the Bing Overseas Studies Program. With matching funds from The William and Flora Hewlett Foundation, the gift totals $25 million. Their support ensures that the program is a permanent offering for Stanford students. Norman Naimark, the T. Robert and Katherine States Burke Director of Overseas Studies, was appointed in April to lead the program.

Stanford Archaeology Center Opens
The Stanford Archaeology Center opened in October 2005. Beginning in January 2006, the center will be the locus of the program’s new distinguished visiting lectures program. The lectures were made possible by grants from the Morgan Family Foundation and the Koret Foundation, with matching funds from The William and Flora Hewlett Foundation.

Stanford in Washington Program Announces Renovation
The university announced plans to renovate and expand the space occupied by its Stanford in Washington program. The current building, located in the nation’s capital, houses students and faculty and provides several study and recreational spaces. Planned improvements include a public art gallery, an expanded library and private reading room, additional student accommodations, and a seminar room.

Jones Receives Early Career Development Award
James Holland Jones, an assistant professor of anthropological sciences, was awarded a five-year grant from the National Institutes of Health for his project Demographic Change and Dependent Social Structures. Jones will study how the transmission of tuberculosis is affected by demographic changes. The project will be carried out through the Institute for Research in the Social Sciences (IRiSS).
Barbara and Bowen H. "Buzz" McCoy endow Stanford’s Program in Ethics in Society.

**First Endowment Gift to IRiSS**
Donna Schweers, '75, and Thomas C. Geiser made the first gift of endowment to the Institute for Research in the Social Sciences (IRiSS). Their $1.25 million gift was matched by The William and Flora Hewlett Foundation. IRiSS aims to create a new model for social science research through the creation and dissemination of multidisciplinary research on socially relevant and complex issues.

**Institute Hosts Winter Colloquium**
Stanford’s Morrison Institute for Population and Resource Studies hosted a Winter Colloquium, a series of weekly lectures describing interdisciplinary research on population issues. Topics included orphanhood in the AIDS epidemic and the global tuberculosis epidemic. Directed by Marcus Feldman, the Burnet C. and Mildred Finley Wohlford Professor in the School of Humanities and Sciences, the institute is home to the Human Genome Diversity Project.

**Ethics in Society Program Receives Boost**
Bowen H. “Buzz” McCoy, ’58, and Barbara McCoy gave $1 million to Stanford’s Program in Ethics in Society. The endowment will support courses that focus on the development of ethical reasoning, a new addition to the university’s General Education requirements. The gift was matched by The William and Flora Hewlett Foundation and the program has been renamed the Barbara and Bowen H. "Buzz" McCoy Program in Ethics in Society.

**Faculty Book Garners Awards**
Londa Schiebinger, the Barbara D. Finberg Director of the Institute for Research on Women and Gender, was awarded the American Historical Association’s 2005 Prize in Atlantic History for her book *Plants and Empire: Colonial Bio-prospecting in the Atlantic World* (Harvard University Press, 2004). The book also received the 2005 Alf Andrew Heggoy Book Prize from the French Colonial Historical Society for the best book on French colonial history published in 2004.

**Students Set Sail with Stanford@Sea**
Twenty-two Stanford students embarked on a five-week sailing voyage on the Pacific Ocean as part of the Stanford@Sea program. The first half of the biological and oceanographic course was spent at Stanford’s Hopkins Marine Station, where students took classes and planned for independent research projects to be carried out at sea. The remainder of the quarter took place aboard a ship that students became increasingly responsible for sailing while continuing their marine studies. They were guided by a crew and team of research scientists, including H&S Professors Barbara Block and Fiorenza Micheli.

Thomas C. Geiser and Donna Schweers, ’75, attend an event at Stanford to celebrate their gift to the Institute for Research in the Social Sciences (IRiSS). It is the first gift of endowment to IRiSS. Photo: Steve Castillo.

Barbara and Bowen H. “Buzz” McCoy endow Stanford’s Program in Ethics in Society.

Stanford students carry out research at sea aboard a 135-foot sailing research vessel in the Pacific Ocean. Their research at sea was preceded by three multidisciplinary marine science classes at Hopkins Marine Station. Photo: Barbara Block.
HUMANITIES AND SCIENCES
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The Humanities and Sciences Council is the school’s outside advisory group that serves as a “cabinet” for the academic deans. The council brings expertise and interests applicable to the school’s initiatives in such areas as undergraduate education, strategic planning, financial management, and development priorities. We are grateful to past council members and to current H & S Council members listed below.

**Lysbeth Warren Anderson**
Alumna, Stanford University School of Humanities and Sciences

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President, Anne T. and Robert M. Bass Foundation

**C. Diane Christensen**
President, The Christensen Fund

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**John Diekman**
Founder and managing partner, 5AM Ventures

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President, Sand Hill Foundation; co-founder, Center for a New Generation

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**R. Patrick Forster**
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Professor of the Graduate School, Department of Molecular and Cell Biology, University of California, Berkeley

**Arun Kumar**
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**Dailey Pattee**
Psychotherapist; former member, Board of Trustees of the Juilliard School

**Gordon B. Pattee**
President, MAP Capital Corporation

**Marshall Payne**
Managing partner, CIC Partners, LP

**Isaac Stein**
Former chairman, Board of Trustees of Stanford University; president, Waverley Associates

**Ralph R. Willard**
Chairman, The Hinckley Company
Students stand with other members of the class of 2005 as the processional fills the seats in the Main Quad during the Baccalaureate ceremony. Photo: L.A. Cicero/Stanford News Service.

**FACTS AND FINANCIALS**

**H & S Faculty**
The School of Humanities and Sciences’ more than 500 distinguished faculty include MacArthur Fellows, recipients of the Nobel Prize, Pulitzer Prize, National Medal of Science, and hundreds of members of the National Academy of Sciences and American Academy of Arts and Sciences.

**H & S Students**
**Students and Postdoctoral Fellows**
- Total Stanford undergraduates: 6,705
- H & S awarded 77 percent of Stanford’s undergraduate degrees in 2005.
- Total Stanford graduate students: 8,176
- H & S graduate student enrollment: 2,076
- H & S postdoctoral fellows: 268

**Bachelor’s Degrees Conferred by Major**
- Total: 1,927

**H & S Doctoral Degrees Conferred by Discipline**
- Total: 241

**Majors Granting the Highest Number of Undergraduate Degrees in 2004-05**
At Stanford, seven out of the ten majors granting the highest number of undergraduate degrees in 2004-05 were in the School of Humanities and Sciences. H & S majors are highlighted in red.

1. Economics
2. Human Biology
3. Biological Sciences
4. Political Science
5. Computer Science
6. Psychology
7. International Relations
8. English
9. Management, Science, and Engineering
10. Electrical Engineering
Undergraduate Admissions

In the 2005-06 academic year, 12 percent, or 2,426, of the 20,195 freshman applicants were admitted. Nearly 50 percent of the admittees disclosed that they were members of minority groups.

H & S Financials

H & S benefits from the generous support of alumni and friends, with expendable gifts and income from gifts of endowment together representing 24 percent of the school’s budget.

H & S Departments and Programs

H & S encompasses the core humanities, the fine arts, languages and literatures, the social sciences, mathematics, and the natural sciences. With 28 departments, dozens of interdisciplinary programs, research centers, and teaching resources, H & S offers a distinctive academic environment among major research universities.

Humanities
- Art and Art History
- Classics
- Drama
- English
- History
- Linguistics
- Music
- Philosophy
- Religious Studies
- Division of Literatures, Cultures, and Languages
  - Asian Languages
  - Comparative Literature
  - French and Italian
  - German Studies
  - Slavic Languages and Literatures
  - Spanish and Portuguese

Natural Sciences
- Applied Physics
- Biological Sciences
  - Hopkins Marine Station
- Chemistry
- Mathematics
- Physics
- Statistics

Social Sciences
- Anthropological Sciences
- Communication
- Cultural and Social Anthropology
- Economics
- Political Science
- Psychology
- Sociology