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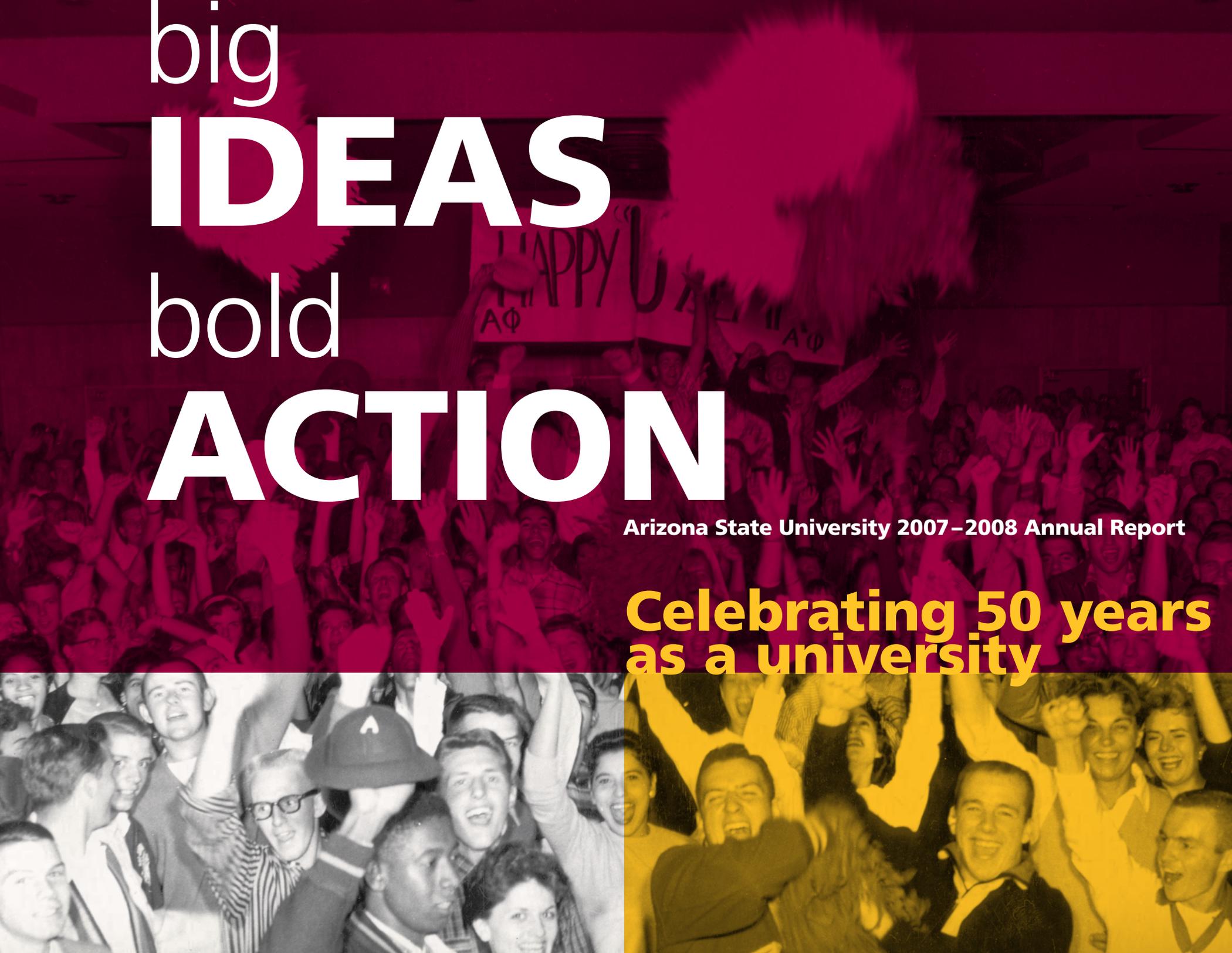


Arizona State University  
**2007 – 2008 ANNUAL REPORT**

Celebrating 50 years as a university



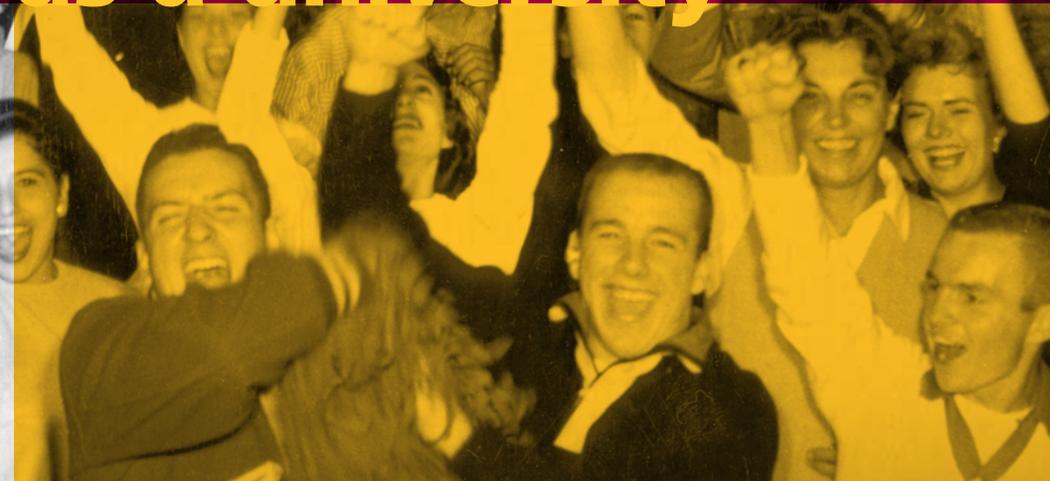




big  
**IDEAS**  
bold  
**ACTION**

Arizona State University 2007–2008 Annual Report

**Celebrating 50 years  
as a university**



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Fifty years ago, few people would have predicted that America's newest university would emerge as a world-class research institution during the first decade of the twenty-first century. Great institutions mature over the course of centuries but the trajectory of Arizona State University during the past five decades has been nothing less than meteoric.

# A MESSAGE

Certainly, no one back then would have imagined that ASU would pioneer a new model for the American research university that would attract interest from around the nation and as far away as Great Britain and China. Said Dr. Frank Rhodes, president emeritus of Cornell University, on a visit here in 2006, "I believe in a true sense that what

# FROM PRESIDENT

you are doing at ASU will save Arizona by your exertions and the rest of higher education by example." According to an April 2007 editorial that appeared in the leading journal *Nature*, questions about the future of the contemporary research university are being examined "nowhere more searchingly than at Arizona State University."

# MICHAEL M. CROW

The transformation of ASU from a territorial teachers college established in 1885 to a top-tier research institution ranked by one authoritative international assessment among the leading 100 universities globally is an accomplishment in which Arizonans should take immense pride. The pivotal moment that would lead to this transformation came in November 1958 when by a two-to-one majority Arizona voters demanded that what had become Arizona State *College* be reconstituted as Arizona State *University*. We believe that ASU is the only institution of higher education ever to achieve comprehensive university status through such public mandate.

In the rapidly changing and highly competitive global knowledge economy, the value of a university education has never been greater. Our mission is to serve the citizens of Arizona through an institution that combines the highest levels of academic excellence, inclusiveness to a broad demographic, and maximum societal impact. We reject the notion that excellence and access cannot be achieved in a single institution, and are thus advancing the model of the "New American University." Of the 150 major research institutions in our nation, both public and private, ASU alone has sought to redefine the notion of egalitarian admissions standards. Unlike small and academically elite universities that promote excellence through exclusion, we are willing to offer access to as many students as

are qualified to attend. We champion diversity and seek to accommodate the many gifted and creative students who do not conform to a standard academic profile, as well as those who demonstrate every potential to succeed but lack the financial means to pursue a quality four-year undergraduate education.

Although we are first and foremost committed to educating the students of Arizona, we are equally a cutting-edge discovery enterprise, focused on finding solutions to the most pressing problems that confront global society. Consistent with our objective of creating differentiated learning and research environments, we have conceptualized and launched 16 new transdisciplinary schools, including the School of Human Evolution and Social Change, the School of Materials, and the School of Earth and Space Exploration, and more than 40 cutting-edge institutes and centers. Among these are the Biodesign Institute, dedicated to innovation in healthcare, energy and the environment, and national security; the Global Institute of Sustainability (GIOS), incorporating the world's first School of Sustainability; and the Center for the Study of Religion and Conflict.

As we mark our 50<sup>th</sup> anniversary as a comprehensive university, ASU is mid-point in a decade of unprecedented change and decisive maturation. The institution is positioning itself to

emerge as a prominent global university and comprehensive knowledge enterprise committed to teaching, discovery, creativity, and innovation. Consistent with the vision of the research university as a catalyst for societal transformation and guided by the spirit of academic enterprise, ASU is advancing groundbreaking transdisciplinary research focused on socially optimal outcomes. Our academic community is helping to build a sustainable environment and

economy for Arizona, leveraging our region's competitive advantages through strategic global engagement, and tackling the major challenges and questions of our age. We are working on multiple fronts to redefine the American research university and improve the human condition, and welcome you to glimpse both our accomplishments and our objectives in the pages of this report.





ARIZONA STATE  
UNIVERSITY YES  
200

DOWN TU  
UP WITH  
ASU

NO TU  
YES ASU



# a university **IN FACT**

The Great "Name Change" Campaign



Arizona Senator Ernest McFarland had a great idea in 1943. Thousands of American soldiers returning from their World War II service needed help adapting to civilian life. Arizona industries required scientists and managers to sustain profitable postwar industries. McFarland's GI Bill created unparalleled opportunities for American veterans and businesses, but it also created unprecedented demand for higher education.



In 1945 Arizona State Teacher's College was renamed Arizona State College and was governed by the newly established Arizona Board of Regents. The only advanced degree available at ASC was the Master of Arts in Education. Military personnel who enjoyed Arizona before deployment returned to settle in the Valley of the Sun and advance their education with GI Bill dollars. As a result, enrollment tripled between 1940 and 1949 to 4,094 students, and Valley manufacturing exploded in this period as well. Men such as Daniel Noble of Motorola, Louis Cates of Phelps Dodge and ASC President Grady Gammage knew that the destiny of the tiny college was certain, but the trail had yet to be blazed.

In 1953 the Arizona Board of Regents called for the US Department of Education to evaluate the ASC program. Dr. Ernest V. Hollis' 1954 report declared that ASC was "rapidly becoming a

university" and proposed the establishment of four colleges: Liberal Arts, Education, Applied Arts and Sciences, and Business and Public Administration. The Hollis Report precipitated howls of displeasure from southern Arizona that echoed through the Board of Regents and the Arizona Legislature, but in the November 1954 Regents meeting Governor Howard Pyle cast the deciding vote to accept the recommendations.

Meanwhile, a war of words erupted in legislative chambers, major city newspapers and alumni magazines over Hollis' declaration that a second Arizona university was emerging in the desert. Student leaders collected petition signatures, and legislation was crafted and buried in committees. But the powerful State Senator Harold Giss of Yuma unwittingly poured gas on the fire when, in March 1958, he introduced legislation to rename the institution Tempe University.



Hundreds of angry ASC students laid siege at the state capitol in Phoenix until Giss promised to withdraw the bill. An embarrassed President Gammage admonished the student behavior and quietly appointed Alumni Association Executive Director James Creasman to coordinate the statewide initiative drive that would give Arizonans their second public university.

Five hundred and ninety-nine ASC students formed a committee to collect petition signatures in the spring of 1958, assisted by the Alumni Association and the "Citizens for Arizona State University," led by Walter Craig and John B. Mills. They needed 28,859 valid signatures, but by July 1<sup>st</sup> they had collected 63,956 signatures, delivered to the capitol by armored car. Proposition 200 was added to the November 1958 ballot. The "Citizens for College and University Education" returned fire with editorials, radio ads and pamphlets declaring that

the "name change" movement was wasteful duplication and poor educational policy. ASC administrators and faculty, Mrs. Kathryn Gammage and first-year football coach Frank Kush toured the state to promote Arizona State University, while C.W. Laing and Tom Lillico barnstormed the state in their "Yes 200" Piper aircraft. Opening day at the new Sun Devil Stadium featured the letters "AS" painted in the end zone, with room for the "U" to be added, but the opposition had sneaked into the stadium the night before and burned "No 200" into the turf at midfield.

On November 4, 1958, an army of 1,500 student volunteers deployed to assist with voter information and transportation to the polls. A communications center was established in the Memorial Union, and the students gathered outside as the polls closed at 7 P.M. The teletype chattered election results in favor of ASU two-to-one, and at 10 P.M. the Citizens for College and

University Education conceded the election. Celebrations began, but thirty minutes later a wire service reported returns two-to-one against ASU, and the tension was renewed. At 11 p.m. the teletype declared the previous report inaccurate, and Proposition 200 approved by a two-to-one margin. The celebration was renewed with the Sun Devil Marching Band, cheerleaders and pom-pom girls leading 5,000 jubilant students to Sun Devil Stadium.

All that remained was the gubernatorial proclamation enacting the initiative results, and so on December 5, 1958, the governor signed the document that created Arizona State University. With the stroke of his pen, now-Governor Ernest McFarland once again fulfilled the destiny of hundreds of thousands of young men and women—and that former teacher's college on the south bank of the Salt River.



# transforming higher **EDUCATION**

**Bold actions and the undaunted pursuit of academic excellence are garnering the nation's and the world's attention.**

# ASU is the largest public university in the United States under a single administration. It has the critical mass and quality to effect much-needed change in American higher education.

ASU has established itself as the model for a New American University, measured not by who it excludes, but rather by who it includes; pursuing research and discovery that benefits the public good; and assuming major responsibility for the economic, social, and cultural vitality and health and well-being of the community.

Fiscal year 2008 was the sixth year of this mission. The university's growth and success over this period of time have validated the principles and purpose of the New American University and have shown its objectives are achievable.

In 2008, *U.S. News and World Report* ranked ASU in the top tier of national universities in the country—for the first time. Three of our colleges made the elite top 25 *U.S. News and World Report* graduate programs list—

The W. P. Carey MBA program ranked 22<sup>nd</sup> overall and eighth among public universities, the School of Public Affairs graduate program placed 25<sup>th</sup> nationally and in the top 15 among publics, and the Mary Lou Fulton College of Education ranked 25<sup>th</sup> nationally and 16<sup>th</sup> among the publics with six out of nine specialty education programs within the college ranking in the top 20 in the nation. ASU is the only Arizona university with any colleges at this level.

ASU's success in winning awards and recognition continued at the individual level.

Stuart Fisher, researcher in ASU's School of Life Sciences, received the Ecological Society of America's Eugene P. Odum Education Award for 2008. This award recognizes extraordinary individuals for "outstanding work in ecology education, teaching, outreach and mentoring activities." Fisher studies the relationship between ecosystem structure and function using stream ecosystems as a model. He was also a contributing author

of the highly collaborative report created by the Intergovernmental Panel for Climate Change (IPCC) which was honored with the Nobel Peace Prize, shared with Al Gore, in 2007.

The past year also saw the election of two more ASU professors to the prestigious National Academy of Sciences. Luc Anselin, Foundation Professor and director of the School of Geographical Sciences, and Edward Prescott, Regents' Professor and Nobel laureate and the W.P. Chair of Economics in the W.P. Carey School of

## National Ranking

School and Program

Category  
Ranking Organization

10 Industrial Design program, College of Design  
*U.S. News & World Report*

6 School of Life Sciences  
U.S. University's Top 10  
*Thomson Scientific*

8 W.P. Carey School of Accountancy  
2007 Top Research Universities Faculty  
Scholarly Productivity Index  
*Chronicle of Higher Education*

4 W. P. Carey Department of Marketing  
2007 Top Research Universities Faculty  
Scholarly Productivity Index  
*Chronicle of Higher Education*

<b>7</b>	Spanish Ph.D. program, School of International Letters & Cultures The Faculty Scholarly Productivity Index <i>Academic Analytics</i>
<b>8</b>	Public Administration graduate program, School of Public Affairs America's Best Graduate Schools <i>U.S. News &amp; World Report</i>
<b>6</b>	Urban Management graduate program, School of Public Affairs America's Best Graduate Schools <i>U.S. News &amp; World Report</i>
<b>7</b>	Interior Design graduate program America's Best Graduate Schools <i>U.S. News &amp; World Report</i>
<b>5</b>	(In the West) Master of Architecture, College of Design America's Best Graduate Schools <i>U.S. News &amp; World Report</i>
<b>52</b>	Sandra Day O'Connor College of Law America's Best Graduate Schools <i>U.S. News &amp; World Report</i>
<b>45</b>	Ira A. Fulton School of Engineering America's Best Graduate Schools <i>U.S. News &amp; World Report</i>
<b>31</b>	Earth Sciences America's Best Graduate Schools <i>U.S. News &amp; World Report</i>
<b>30</b>	Herberger College of the Arts, Master of Fine Arts America's Best Graduate Schools <i>U.S. News &amp; World Report</i>
<b>16</b>	Criminology and Criminal Justice graduate program, College of Human Services America's Best Graduate Schools <i>U.S. News &amp; World Report</i>
<b>14</b>	(3 <sup>rd</sup> in the West) Industrial Design graduate program, College of Design America's Best Architecture & Design Schools <i>Design Intelligence</i>

Business, were elected to the academy, a Washington, D.C.-based organization that advises the federal government on matters of science or technology. Anselin and Prescott join eight other ASU National Academy of Science faculty members.

ASU's influence at the National Academy of Sciences doesn't stop there. Michael Crow delivered the prestigious, eighth annual Sackler Lecture, which is part of the National Academy of Sciences Sackler Colloquium. His lecture, titled, "Linking Knowledge with Action for Sustainable Development," focused on the

role of universities and their need for change at this critical time.

Another influential Washington D.C.-based association and the world's largest general scientific society, the American Association for the Advancement of Science, can count five more ASU faculty members among its ranks. Professors Carlos Castillo-Chavez, a mathematical theoretical biologist; Ronald Greeley, a planetary geologist; Devens Gust, a physical-organic chemist and inventor; Ann Kinzig, an ecologist; and Jianguo "Jingle" Wu, a landscape ecologist; were

all elected as Fellows in 2007. This year's election brings the total number of AAAS Fellows at ASU to 43.

This year, four faculty members received lifetime achievement awards for their outstanding career-long contributions.

- Raul Yzaguirre, founder and director of the ASU Center for Community Development and Civil Rights was recognized by the Smithsonian Institute with a lifetime achievement award for his 30 years as president and CEO of the National Council of La Raza (NCLR), the

largest constituency-based national Hispanic organization and a leading Hispanic "think tank" in Washington, D.C.

- The Association for the Study of Play recently awarded the Brian Sutton-Smith Lifetime Achievement Award to James Christie, who teaches courses in language, literacy and early childhood education in ASU's Mary Lou Fulton College of Education.
- Jane Buikstra was honored with the Charles Darwin Lifetime Achievement Award by

the American Association of Physical Anthropologists and the T. Dale Stewart award for distinguished service in forensic anthropology, the American Academy of Forensic Science's most prestigious lifetime achievement award.

- Robert Greenes was selected to receive the Morris F. Collen Award by the American College of Medical Informatics during the American College of Medical Informatics Association's annual symposium in Washington D.C. The award recognizes lifetime achievement and significant contributions to biomedical informatics.

ASU is third in the nation, behind Harvard and the University of California at Berkeley, for producing National Science Foundation CAREER award winners. The CAREER award is given to young faculty members within the first five years of taking a tenure-track position, who are expected to become the academic leaders of this century.

In 2007–2008, four more faculty members were presented with the elite NSF CAREER award. Jian Li, an assistant professor in ASU's School of Materials was awarded for his efforts to find better materials to harvest energy from sunlight utilizing photovoltaic technology. Bryan Vogt, assistant professor in the Department of Chemical Engineering in the Ira

A. Fulton School of Engineering, earned an award for his work in controlling the architecture and behavior of nanostructures and nanomaterials. Innovative research on colloidal crystal films led to the CAREER award for Jonathan Posner, an assistant professor in the Department of Mechanical and Aerospace Engineering in the Ira A. Fulton School of Engineering. And Marco Janssen's innovative work, which includes using group experiments with computer simulations to test how people share common resources—such as forests, pastures and irrigation systems—and craft institutional rules governing those resources, was recognized with an award in March 2008. Janssen is assistant director of the Center for the Study of Institutional Diversity in the School of Human Evolution and Social Change.

Other faculty members were honored with Presidential Early Career Awards for Scientists and Engineers. Having two faculty members win this award in the same year is a first for ASU. Matthew J. Fouch, a geophysicist in the School of Earth and Space Exploration and Jenefer Husman, an educational psychologist in the Mary Lou Fulton College of Education were awarded two of the 58 national awards from a conglomerate of nine federal departments and agencies recognizing innovative research at the frontiers of science and technology.



Rebecca Fisher, an assistant professor in ASU's School of Life Sciences and the Department of Basic Medical Sciences at the University of Arizona College of Medicine-Phoenix in partnership with Arizona State University was awarded the coveted Basmajian Award from the American Association of Anatomists for her out-of-the box scholarship, as well as her creative course development and teaching of anatomy.

The buzzing of bees could lead to advancements in biomedical neuroscience of aging—if Gro Amdam has her way. The Pew Charitable Trusts believes her research could usher in a breakthrough in the biomedical sciences after choosing her from 150 national candidates to win one of 20 of the trusts' exclusive roles as a Pew Scholar in the biomedical sciences.

The American Solar Energy Society (ASES) honored School of Architecture and Landscape

Architecture Professor Harvey Bryan with the 2007 Passive Solar Pioneer Award. The award recognizes individuals who have opened doors to new ideas with their foresight, innovative thinking, and creativity within the passive solar field.

After consideration of 350 novels and short story collections by American authors published in 2007, T.M. McNally's "Gateway: The Stories" was honored as one of four finalist for the prestigious peer-juried prize, the PEN/Faulkner Award for Fiction.

In the last year, ASU honored our most outstanding faculty members as President's and Regents' Professors. The 2007 Regents' Professors are Stuart Lindsay, Edward and Nadine Carson Presidential Chair in Physics, and professor of chemistry; James Ohlson, W.P. Carey Chair of Accountancy; Otto Sankey, professor in the Department of Physics; and Elly van Gelderen, professor in the Department of English.

Noel Stowe received 2008 Governor's Heritage Preservation Honor Award sponsored by the Arizona Preservation Foundation and the Arizona State Historic Preservation Office, a division of Arizona State Parks. Stowe was honored for his outstanding achievements in preserving Arizona's historic resources through the public history program he guides in the Department of History.

## Bold pursuits reap diverse awards

Kelin Whipple, a School of Earth and Space Exploration professor, was honored with the 2008 Ralph Alger Bagnold Medal presented by the Geomorphology Division of the European Geosciences Union. The award is reserved for individuals in recognition of their outstanding scientific contribution to the study of geomorphology. Whipple was selected for his outstanding contributions to the understanding of how climate, tectonics, and surface processes interact in the sculpting of the Earth's surface.



The Geological Society of America chose Philip R. Christensen, director of ASU's Mars Space Flight Facility and Regents' Professor of Geological Sciences in the School of Earth and Space Exploration, to receive its G.K. Gilbert Award. The award, bestowed annually by the society's planetary sciences division, is for "outstanding contributions to the solution of fundamental problems in planetary geology in the broadest sense."

David Garcia has been selected a 2008–2009 National Academy of Education/Spencer Postdoctoral Fellow to research the convergence of school choice and school accountability with the diversification of the Latino population in the United States. Assistant Professor Garcia, of the Division of Educational Leadership & Policy Studies in the Mary Lou Fulton College of Education, is one of 20 Fellows selected this year from a pool of more than 150 applicants for the two year fellowship.

The Arizona BioIndustry Association named Roy Curtiss III, "Bioscience Researcher of the Year." Curtiss, the director of the Biodesign Institute's Center

for Infectious Diseases and Vaccinology, was honored for his work in development of a vaccine against bacterial pneumonia. Bacterial pneumonia kills more children around the world each year than any other infectious disease. Curtiss and his team are working to perfect a safe, yet potent vaccine for this lethal pathogen that can be tolerated even by newborn babies and administered as a one-dose solution in a simple eyedropper.

Mark Klett, Regents' Professor of Photography in the Herberger College School of Art, has received the 2008 Governor's Arts Award as a living artist who has made a significant contribution to the arts in Arizona through his photographs of the American West. Klett was selected for the award by the Arizona Commission on the Arts and Arizona Citizens for the Arts. Klett, who is trained as a geologist, photographs the intersection of culture, landscapes and time.

In the fall of 2007, ASU added another 108 faculty members, bringing the total to 2,970. A number of existing faculty members also undertook new responsibilities. New appointments during the year included:

procedure and the cultural analysis of law, is a graduate of Princeton University and received his law degree from New York University School of Law.

- **Carole Greenes** was selected to lead the School of Educational Innovation and Teacher Preparation. Greenes hails from Boston University

of academic affairs in the College of Engineering at the University of Illinois at Urbana-Champaign prepares him to take on the new role as vice president of ASU's Polytechnic campus and dean of the college.

- ASU appointed **Craig Thatcher**, a prominent researcher at Virginia Polytechnic Institute, as dean of the School of

# New directions bring

- **Elizabeth Langland** was named vice president and dean of the New College of Interdisciplinary Arts and Sciences. Langland was provost and vice president for academic affairs for State University New York-Purchase College (SUNY-Purchase). Her expertise lies in academic programs and services, program development and review, strategic planning, general education and assessment, and faculty development. Langland is leading the college's effort to enhance its academic excellence and achieve far-reaching social relevance.

- **Deborah Friedman** was selected to lead the Downtown Phoenix campus as a university vice president while continuing

her role as Dean of the College of Public Programs. Friedman will continue to create an academically rigorous environment rooted in social embeddedness. She will pursue public, private and nonprofit partners to ensure that Phoenix maintains its status as a city unparalleled in its dedication to the social, economic and educational advancement of all.

- **Paul Berman**, Jesse Root Professor of Law at the University of Connecticut Law School, was named dean of the Sandra Day O'Connor College of Law. Berman, whose scholarly writing focuses on how globalization affects the intersection of cyberspace law, international law, civil

where she was a professor of mathematics education. She has an extensive history in K-12 and higher education in mathematics. She has authored more than 300 books and programs for students in prekindergarten through 12<sup>th</sup> grade, for college students and for teachers. Greenes also will be directing the Practice, Research and Innovation in Mathematics Education (PRIME) Center on the Polytechnic campus.

- **Keith Hjelmstad** was appointed as the new vice president and dean of the College of Technology and Innovation. His experience as a professor in the Department of Civil and Environmental Engineering and former associate dean

Applied Arts & Sciences. Thatcher chaired the Food Nutrition and Health Advisory Committee in the Institute for Biomedical and Public Health Sciences and is a co-director of the National Science Foundation Macromolecular Interfaces with Life Science, Integrated Graduate Education and Research. In his role as dean, Thatcher develops programs for undergraduate students in the sciences, as well as in the arts and humanities, while managing the school's rapid growth.

- **Mernoy Harrison** was appointed to lead ASU's School of Extended Education, or "virtual campus," which has 30,000



# and new growth

## new faces

online students. After successfully overseeing the construction phase of the Downtown Phoenix campus, Harrison has been challenged to build ASU's "fifth campus" and to ultimately increase the on-line enrollment to 100,000 students.

- After some 40 years working in the Harvard University medical community, **Robert Greenes** was selected to chair the Department of Biomedical Informatics in ASU's School of Computing and Informatics, a part of the Ira A. Fulton School of Engineering. He was a professor of radiology at Harvard Medical School and Distinguished Chair in Biomedical Informatics at Harvard-affiliated Brigham

and Women's Hospital, where he also has been a professor of health policy and management at the Harvard School of Public Health. One of the pioneers and national authorities in biomedical informatics, Greenes will play a pivotal role in the development of the Phoenix Biomedical campus and in educating the doctors of tomorrow.

- **Laura A. Dickinson**, a professor at the University of Connecticut School of Law whose work deals with transitional justice, legal responses to terror, foreign affairs privatization, and the interrelationship between international and domestic law, will join the faculty of the Arizona State University's Sandra Day

O'Connor College of Law in August 2008. She will also become director of a new center on international law and national security, to be jointly sponsored by the College of Law and the School for Global Studies in the College of Liberal Arts and Sciences.

- **Aaron Brown**, the former lead anchor for CNN, was appointed the inaugural Walter Cronkite Professor of Journalism in the Cronkite School of Journalism and Mass Communications.

Brown covered stories from the Sept. 11, 2001, attacks to the 2004 presidential elections and the Iraq War. Brown won the coveted Edward R. Murrow Award for his Sept. 11 coverage, broadcasting from a rooftop in lower Manhattan. He is the 12<sup>th</sup> new professor to join the Cronkite School in the past two years.

- ASU's College of Human Services selected **Bonnie E. Carlson** as the new chair of the Department of Social Work. Carlson comes to ASU from the University at Albany, State University of New York's School of Social Welfare, where she had been teaching since 1979. Her research focuses on all types of family violence and substance abuse.

- **Kyle Squires** was named chair of the Department of Mechanical and Aerospace Engineering in ASU's Ira A. Fulton School of Engineering. Squires joined the engineering faculty at ASU as an associate professor in 1997 and was appointed to full professor in 2003. He served as the department's vice chair of graduate programs, and has been interim department chair since August 2006.

- **Mark von Hagen**, a historian specializing in the Russian empire, Ukraine and the borderlands of eastern Europe, was selected as chair of the Department of History in the College of Liberal Arts and Sciences. Von Hagen came to Arizona after spending more than 22 years at Columbia University where he was chair of the history department and director of the Harriman Institute, the oldest and largest teaching and research center devoted to the successor states of the Soviet empire. At ASU, von Hagen is focusing on the current strengths of the department as well as developing the fields of comparative and global history.



# A new name and we never looked back

ASU had four colleges when it became a university in 1958. Today, that total stands at 22. During fiscal year 2008, we added six new schools, centers and consortiums to accommodate continued growth and the evolution of intellectual pursuit:

- The International Institute for Species Exploration will accelerate human knowledge and understanding of the planet's living diversity and lead the creation of "cybertaxonomy," a fusion of taxonomy with computer science and engineering. The institute is housed in the College of Liberal Arts and Sciences, with strong linkages to the Ira A. Fulton School of Engineering.

- The Center for the Study of Institutional Diversity, located within the School of Human Evolution and Social Change, focuses on empirical and theoretical analyses of institutions. The center will meld laboratory research, field work, archival activities, and mathematical and agent-based modeling in ways that are meant to guide policy-making and decision-making toward sustainable development.

- The College of Nursing and Healthcare Innovation established the Southwest Consortium of seven colleges to deal with health disparities among Native Americans and Hispanic populations in Arizona and the southwest. The consortium is led by director Colleen Keller, who was also named the first ASU Foundation professor in Women's Health.

- The School of Letters and Sciences, headed by Fred Corey, offers a core of liberal arts classes and a bachelor's degree in interdisciplinary studies. The school provides instruction in humanities, social sciences and natural sciences for Downtown Phoenix campus students. With the school's location in the center of the city, opportunities are unparalleled for community partnerships that enhance student engagement.

# — only forward.

- The study of other languages and cultures has an ever-increasing importance in today's changing world and is the focal point of ASU's new School of International Letters and Cultures in the College of Liberal Arts and Sciences. Built on the strengths of the former Department of Languages and Literatures, the new school has a distinct global perspective; it reaches across traditional academic boundaries to create innovative alliances with other departments, schools and centers.

- The Hartford Center of Geriatric Nursing Excellence housed within the College of Nursing and Healthcare Innovation focuses on training nurse scientists and clinicians to ensure the best geriatric practices are produced and used by educational programs that prepare geriatric nurse clinicians, practicing clinicians and clinical agencies, policy-makers, and lay public to enhance self-care and caregiving skills.



ASU students continue to amaze with their enthusiasm, knowledge and desire to achieve. Almost 30% of our incoming freshmen were from the top 10% of their high school class, which equates to close to 2,500 freshmen—more than Harvard, Yale, Princeton or Stanford. To ensure that those who are pursuing excellence can achieve it, ASU awarded \$420 million in financial aid to 45,000 students, paving the way to prosperity for a new generation.

Their record of achievement grows every year. At least 21 ASU students and recent graduates will be studying and teaching abroad next year, having won prestigious Fulbright and National Security Education Program (NSEP) awards. Their destinations include 17 different countries. Their projects range from studying the elections



# Providing excellence,

process in Russia to analyzing Arabic media in Egypt. One student will examine the development of nanotechnology in Mexico, while another plans to explore the creative and technical aspects of Samoan operas in New Zealand.

# attracts excellence

ASU students who apply for Fulbright awards to study overseas are among the most successful, with 40 percent of students who applied being chosen to receive the grants. This year, ASU had another record—16 recipients—fourth among public universities.



Megan McGinnity, a senior in the College of Liberal Arts and Sciences and Barrett, the Honors College, received multiple awards including a 2007 Marshall Scholarship, an award worth \$60,000, and *USA Today's* All-USA College Academic First Team for exceptional intellectual achievement and leadership. McGinnity also was awarded the William E. Simon Fellowship for Noble Purpose for her work on human trafficking. She is the first ASU student to ever win the award.

Devin Mauney, a junior in economics, won a Truman Scholarship, one of only 65 in the nation. The \$30,000 award is presented to college juniors who show outstanding leadership potential and intend to pursue careers in public service.

Three ASU juniors won Goldwater Scholarships, the nation's premier awards for undergraduates studying science, math and engineering. The winners, Charlene Bashmore, a biochemistry major; Lara Cardy, majoring in biochemistry with a

minor in speech and hearing; and Bryan Rolfe, a math and chemical engineering double major; are currently conducting sophisticated research that will have global impact.

Christa Lee, a sophomore in nursing, and Garth Baughman, a junior in economics and math, have been awarded Morris K. Udall Scholarships.

David Young, a master of fine arts student in the Herberger College School of Art, received the International Sculpture Center's (ISC) 2007 Outstanding Student Achievement in Contemporary Sculpture Award.

Elizabeth Stolle, a doctoral graduate of the Mary Lou Fulton College of Education received the 2007 National Reading Conference's Outstanding Student Research Award for her study of how teachers can use technology to enhance literacy in their students.

Cindy Louie is one of only eleven design students in the United



States to receive The Angelo Donghia Foundation of New York award. The Donghia Foundation Senior Scholarship Program provides a \$30,000 scholarship to each winner.

Our students are making an impact in academic contests as well.

- The College of Liberal Arts and Sciences won the Academic Bowl Trophy at ASU and the regional championships, then went on to place seventh at the College Bowl National Championship.
- The ASU forensics team finished sixth out of 88 U.S. schools at the National Forensics Association Championships Tournament.
- The Walter Cronkite School of Journalism and Mass Communication team finished first, winning more awards than any other school, in the latest Broadcast Education Association annual news reporting and interactive media contests.

- A team of five accountancy students from the W.P. Carey School won the PricewaterhouseCoopers xTax Challenge National Championship in a competition against other top-ranked universities. Additionally, a team of undergraduate accountancy students won the national KPMG/Association of Latino Professionals in Finance and Accounting case competition in 2007, competing against 27 university teams from across the country.

ASU is committed to every student's success, and this includes seeing them choose a major that fits their interests and aptitudes. A new tool became available this year to help students find their way through the maze of majors. Called eAdvisor, the online advising and tracking program complements personal academic advisers by helping students understand the courses that are required for a specific major. eAdvisor helps students explore majors in a systematic fashion.



The complex, interrelated challenges of global sustainability require expertise and action from many disciplines. Universities are uniquely qualified to provide this service. They can muster diverse and technical knowledge resources, identify critical questions to be answered, develop innovative pathways to solutions, and educate the next generation of problem-solvers who will inspire and implement the multitude of changes needed to create a more sustainable world.

# Sustaining life on Earth:

ASU has risen to the urgency of those tasks. During 2008, the university's Global Institute of Sustainability (GIOS), provided leadership and coordination for a university-wide commitment to sustainability. GIOS

# a singular, clear mission

worked with faculty, staff, and students on all four ASU campuses to teach principles of sustainability, conduct research on the most pressing sustainability issues, partner with other institutions to develop solutions to global sustainability challenges, and help ASU lead by example in the sustainable conduct of its own operations.





**Highlights of ASU's achievements in sustainability this year include:**

- Admission of the first classes of graduate students to ASU's School of Sustainability; six students in January 2007 and 26 students in August 2007, and development of a complete curriculum for an undergraduate major in sustainability to be offered in August 2008.
- Development of a new bachelor of arts degree program in business and sustainability by the School of Sustainability and the WP Carey School of Business to be offered in August 2008.
- Renovation of the former College of Nursing building on the Tempe Campus to become a new headquarters for GIOS as well as a "living experiment" that demonstrates operation of wind turbines and solar power arrays on the roof to generate renewable energy, use of sustainable materials on floors

and walls, and real-time monitoring of the building's "metabolism" through a public display on the ground floor that tracks production and use of electricity, water, and waste.

- Launch of the ASU Sustainability Research Federation, coordinated by GIOS, to actively involve academic units across all four campuses in interdisciplinary scholarship and outreach that address challenges of sustainability in areas such as energy, water, and urban livability.
- Organization of a university-wide task force to create a plan to run all four campuses and their business operations more sustainably and minimize ASU's environmental footprint.
- Dr. Jay Golden, assistant professor in the School of Sustainability and director of The National Center of Excellence on SMART Innovations for Urban Climate & Energy has been actively

researching issues related to human health, environmental and economic impacts resulting from urban heat islands, heat waves and electricity disturbances. In collaboration with researchers at the US Environmental Protection Agency, US Centers for Disease Control, the National Weather Service and various local governments, he has led the creation of a Cyber-Enabled Virtual Organization ([www.Heat-Waves.org](http://www.Heat-Waves.org)), conducting collaborative engineering and science research as well as development of adaptation and mitigation strategies for governments around the world.

- Collaboration with prestigious research institutions including the National Center for

Atmospheric Research, Chinese Academy of Sciences and the Potsdam Institute for Climate Impact Research in meetings hosted at ASU.

ASU's primary objective in all of these endeavors has been to create pathways toward global, regional, and local sustainability. With this in mind, the GIOS Board of Trustees in its final meeting of the 2008 academic year determined that GIOS should focus its efforts and resources on solving five "grand challenges" of sustainability: rapid urbanization, water supply, energy resources and systems, adaptation to climate disruptions and sustainable business practices.





A historic collaboration came to fruition this year as the first class of 24 students at the University of Arizona College of Medicine–Phoenix in partnership with Arizona State University began classes in downtown Phoenix. The medical-education curriculum at the college features an interactive teaching approach and

an emphasis on biomedical informatics—computer technology skills that support information gathering, diagnosis and the creation of tailored medical treatments or personalized medicine. Mentored scholarly research projects that each student undertakes on an individual basis form the core of a shared, broad-based

The only building in the state where the ASU logo and the University of Arizona logo reside in harmony opened this past year in downtown Phoenix. The Arizona Biomedical Collaborative 1 (ABC1) opened in August to house the Department of Biomedical Informatics in ASU’s School of Computing and Informatics, a part

# Changing the landscape

learning experience over four years. Classes also focus on the integration of clinical and basic-science training. Twenty-four faculty members from ASU and UA instructed the Class of 2011.

David A. Young, Kathleen S. Matt and Sethuraman “Panch” Panchanathan represented ASU on an academic task force charged with designing the curriculum for the Phoenix program. Students attended classes in the historic Phoenix Union High School, at the corner of Seventh and Van Buren streets on the Phoenix Biomedical Campus. The building underwent nearly two years of renovation to provide state-of-the-art educational facilities that seamlessly meld the old and new with a variety of innovative technologies to enhance instruction.

of the Ira A. Fulton School of Engineering on the first two floors. The top two floors are occupied by the University of Arizona Department of Basic Medical Studies. The \$26.9 million facility and the innovative program moves ASU into the vanguard of an emerging discipline that melds computer science and engineering, biology, information technology, cognition and decision-making research, mathematics, and health and social sciences—all aimed at improving the quality of health care. The 85,000 square-foot ABC 1 is part of the Phoenix Biomedical Campus that houses TGEN and The UA College of Medicine–Phoenix in partnership with ASU.

Across town, the Polytechnic campus opened three new academic complexes totaling 245,000 square feet, nearly doubling the classroom, instructional lab space and offices on the campus. Facilities include engineering, applied biological sciences, and computing and applied psychology lab spaces; a 500-seat auditorium; lecture

hall; dance studio; and a black box theater capable of supporting multi-purpose art programs. The new facilities have completely transformed the campus preparing it to meet the needs of the future.

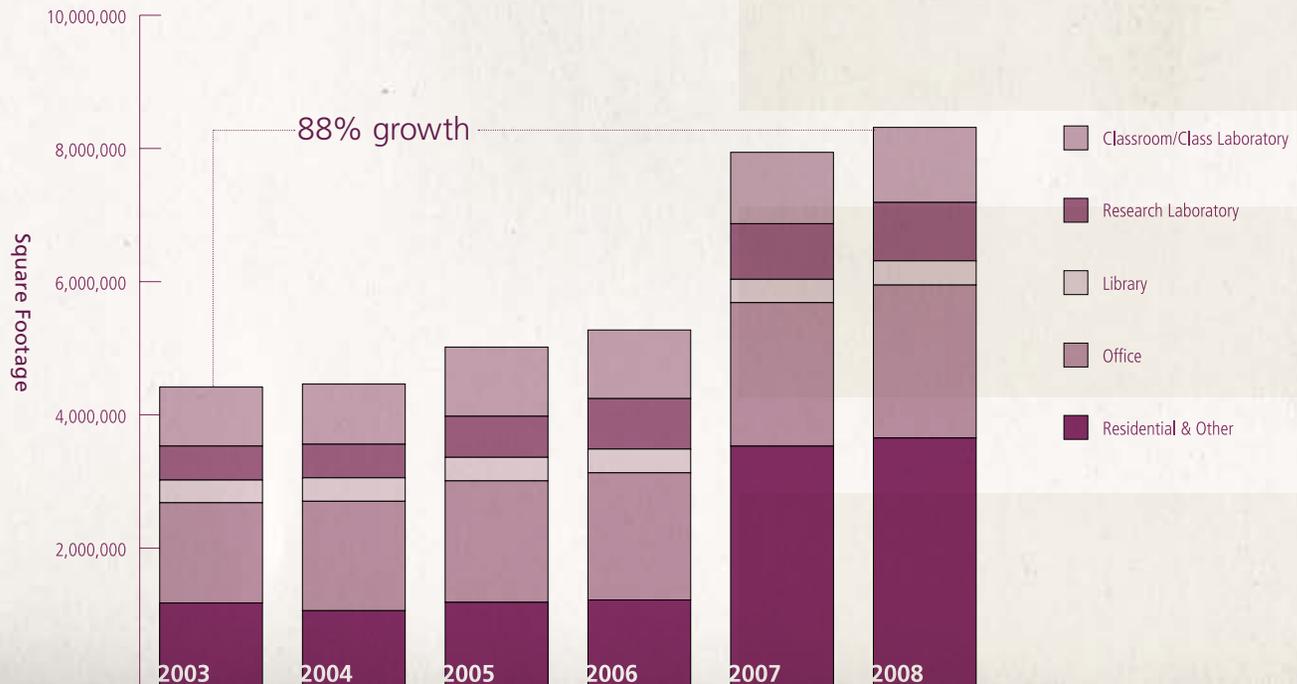
The new Arizona State University/ Mesa Airlines hangar, which is a joint project among ASU's

Department of Aeronautical Management Technology, Mesa Airlines, Williams Gateway Airport Authority and the Arizona Department of Transportation (ADOT), will be used for conducting general aircraft maintenance, for sheltering many of the 17 aircraft, and for preparing future pilots before they actually take

to the skies. The 21,000-square-foot facility sits on three acres of airport land. The construction of the facility, which was started in August 2006, was funded by ADOT with a \$3 million loan through the Williams Gateway Airport Authority.

# of higher education

**Space Inventory**  
Total university square footage by category by year.



ASU's Office of the Vice President for Global Engagement is less than two years old and already has gained recognition for providing strategic focus and direction to a broad network of international activities that span the university and reach across the globe. The office is engaging key international partners, building and fostering new relationships, providing access to resources, and offering opportunities to faculty, researchers, students, and constituent communities here and abroad.

# All the world as a stage



The office strengthened international and community outreach and welcomed numerous international delegations, guests, and senior U.S. government officials to ASU. The Distinguished International Lecture Series kicked off with a lecture by Paula Dobriansky, under secretary of state for global affairs.

Coordinated through the Policy and Strategic Partnerships unit, ASU's links with global strategic partners increased significantly. Efforts focused on issues ranging

from sustainable technologies in developing countries to building a cohort of creative writing teachers in China.

Existing and new opportunities for ASU engagement and partnerships flourished in Ireland, Singapore, Australia, Israel, Vietnam, the United Arab Emirates, and Turkey. ASU and Tecnológico de Monterrey in Mexico created a robust platform for joint activities in the areas of online education, binational research and regional innovation.



The partnership with Sichuan University in China saw the launch of the Confucius Institute and the formalization of the new, joint University Design Institute, as well as extended programs at ASU for English teachers and Sichuan University deans and senior administrators.

The ASU community responded with speed and generosity to the devastation caused by the Sichuan earthquake, and ASU is working closely with Sichuan University on post-earthquake rebuilding research and initiatives.

As a mechanism to recognize the creativity and global mindset of ASU scholarship, the office awarded seed grants to 14 faculty members from a pool of 97 proposals, which were reviewed

by the Faculty International Committee. Grants provide support for developing and implementing academic programs, projects, and collaborations designed to engage international students, faculty, and institutions for purposes of education, research, student mobility, and community development.

Within the new Center for Global Education Service, the Study Abroad Office reported a 5.8 percent increase in student participation—220 study abroad and exchange programs in 50 countries, and 68 short-term programs in 40 countries. New institutional resources were targeted for scholarships to assist study abroad participants. In addition, there were 19 new international agreements for student mobility, new School of Global Management and Leadership programs in Brazil and Canada, a new program in aviation management at the

European Business School, a new W.P. Carey School of Business exchange program at Bocconi University in Italy, and the renewal of programs in Israel at Hebrew University, Tel Aviv University, University of Haifa, and Ben Gurion University.

As ASU's global engagement efforts continued to expand, the International Faculty and Scholars Office assisted more international scholars, faculty, researchers, and exchange students than ever before. The ASU Passport Acceptance Office, which provides passport services to ASU and the general community, served 16 percent more customers than the previous year.

All of these efforts are instrumental to ensuring that ASU secures and maintains its position in the vanguard of globally engaged universities.

**ЕХЪГОВЕ**

The image shows a low-angle shot of a modern building's facade, characterized by a grid of rectangular windows. The name 'ЕХЪГОВЕ' is prominently displayed in large, bold, black Cyrillic letters across the upper portion of the building. The entire image is overlaid with a warm, golden-yellow color gradient and a diagonal split effect, with the top-left and bottom-right corners appearing lighter and the bottom-left and top-right corners appearing darker.

inspiring  
**DISCOVERY**

## A Remarkable Trajectory of Growth in Research

Even before Arizona State College became Arizona State University in **1958**, a modest amount of basic and applied research was underway.

As early as **1959**, an electrical engineering lab opened with the support of industry partners, General Electric and Allis-Chalmers.



By 1961, the Ninninger Meteorite Laboratory was established, with Professor Carleton Moore at the helm. Today, that lab

In 1973, Hayden Library was admitted to the Association of Research Libraries.



The world's smallest transistor (480 angstroms) was developed at ASU in 1985 by Professor David Ferry and graduate student Gary Bernstein.

The following year, the electrical and computer engineering department faculty received \$1.2 million in grants from the U.S. Department of Defense.

1950 1960 1970 1980



has become the Center for Meteorite Studies, the largest university-based meteorite collection in the world.

Also in 1961, Professor Herbert Stahnke received a National Science Foundation grant to tour Europe investigating the taxonomy of scorpions. George Boyd was director of research at that time. He published the first catalog of ASU research, citing 280 projects.

By 1975, research awards at the university had reached \$7.08 million.

Professor John Cowley was named to the Royal Society of London in 1979 for his work in high-resolution electron microscopy of crystals.

The first supercomputers in Arizona, the Cray X-MP and the IM 3090, were acquired by ASU in 1988.

In 1994, the Carnegie Foundation for the Advancement of Teaching designated ASU with its coveted Research 1 status. The designation was based on the quality and quantity of research being conducted at the university.



ASU's Art Museum was represented in the 1994 Venice Biennale with the work of media artist, Bill Viola.

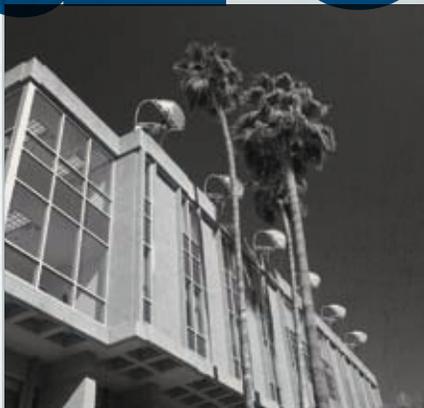
The Institute of Human Origins relocated to ASU in 1997.

A Guggenheim Fellowship was awarded to History Professor Peter Iverson in 1999.

The Center for the Study of Religion and Conflict was established in 2002.

Arizona Technology Enterprises was founded in 2003 to document and market ASU inventions.

The Arizona Biodesign Institute opened its first building in 2004, the same year economist Edward Prescott was awarded the Nobel Prize.



Julie Ann Wrigley made a \$15 million gift to create the Global Institute of Sustainability.

In 2005, Professor Roy Curtiss received a \$14.8 million grant from the Grand Challenges in Global Health Initiative supported by the Bill and Melinda Gates Foundation to develop a new pneumonia vaccine for infants. Biodesign researchers received almost \$9 million in grants to develop a preventative vaccine against cancer.

In 2008, researchers at Arizona State University submitted, on average, 10 proposals each day.



The Virginia G. Piper Trust and the Flinn Foundation contributed \$45 million to found the Partnership for Personalized Medicine in 2007. ASU also created the North American Center for Transborder Studies in partnership with universities in Canada and Mexico in 2007.

ASU exceeded \$237 million in research expenditures for the first time in the university's history. Biodesign research funding reached \$63.1 million, with 50 invention disclosures and 14 patent findings. Researchers achieved 117 percent growth in the past fiscal year with awards from international foundations, government agencies and businesses. ASU research is poised to deploy systems to attain a \$250 million research threshold and move the university to a steady growth rate of 12 percent each year.

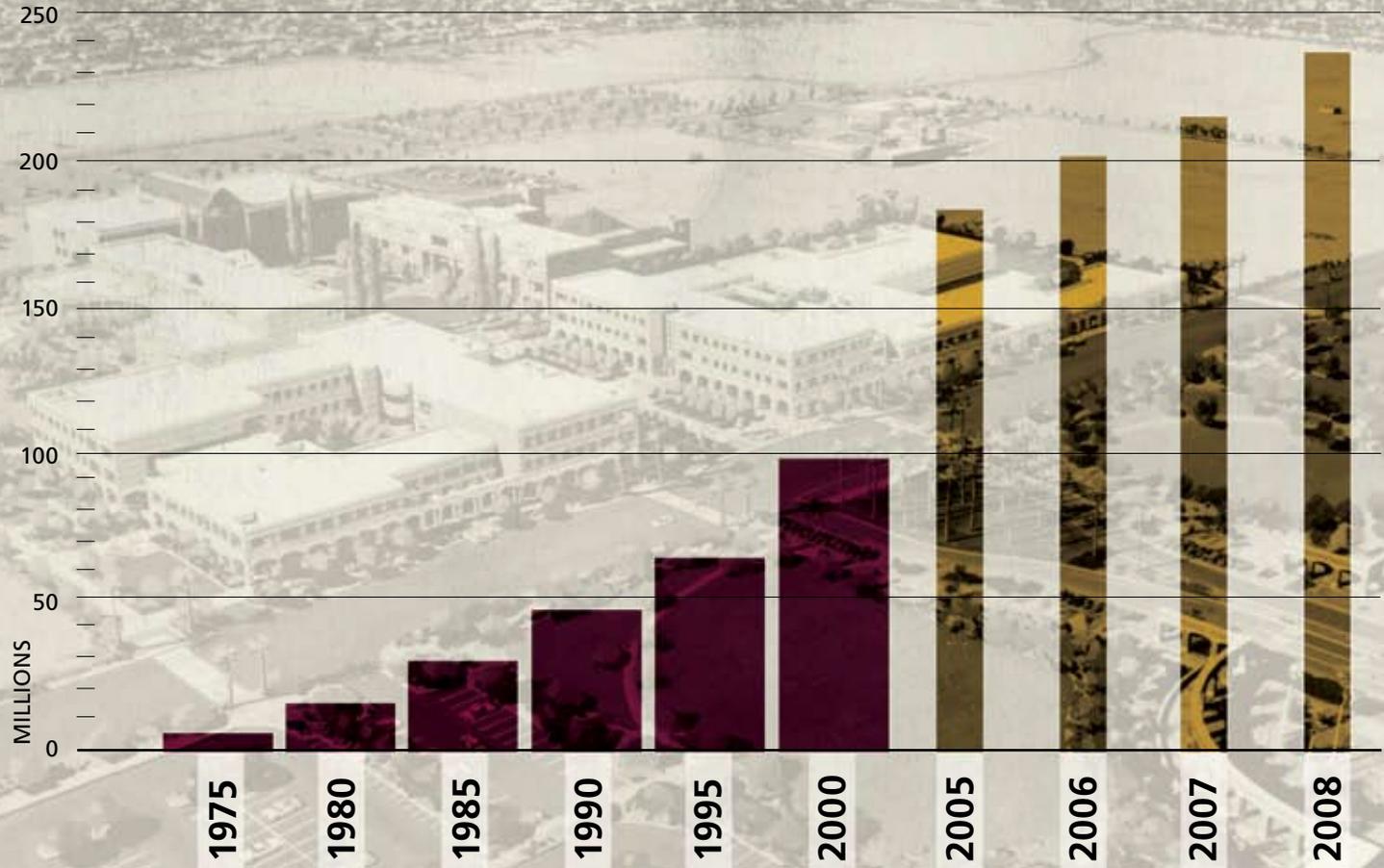
# 1990 2000

**From its modest beginnings to its emergence as one of the nation's fastest growing research institutions, Arizona State University has pioneered a new breed of research—one that's interdisciplinary, entrepreneurial and focused on application. ASU's faculty and students are taking on society's toughest challenges, ranging from improving our environment for future generations to discovering ways of conquering disease.**

Since achieving Research 1 status, the quantity and quality of work at ASU has continued to blossom and grow quickly. Research conducted at ASU now transcends disciplines and reaches into the community, throughout the nation, and the world.

# RESEARCH EXPENDITURE HISTORY

RESEARCH EXPENDITURE HISTORY



RESEARCH EXPENDITURES by Colleges and Administrative Units

COLLEGES

Liberal Arts and Sciences, College of	\$92,907,932
Engineering, Ira A. Fulton School of	53,334,393
Education, Mary Lou Fulton College of	6,539,189
Public Programs, College of	5,704,955
Technology and Innovation, College of	4,868,686
Human Services, College of	3,718,924
Applied Arts and Sciences, School of	3,690,924
Materials, School of	3,380,143
Nursing and Healthcare Innovation, College of	3,206,817
Teacher Education and Leadership, College of	2,718,186
Graduate College	2,143,399
Sustainability, School of	1,965,210*
Business, W.P. Carey School of	1,520,151
University College	1,129,460
Design, College of	873,887
Management and Agribusiness, Morrison School of	814,095
Arts, Katherine K. Herberger College of the	615,852
Law, Sandra Day O'Connor	341,198
Interdisciplinary Arts and Sciences, New College of	280,153
Educational Innovation and Teacher Preparation, School of	184,863
Journalism and Mass Communication, Walter Cronkite School of	55,441
Honors College, Barrett	42,956
Global Management and Leadership, School of	1,819

Total \$190,038,633

ADMINISTRATIVE UNITS

President, Office of the	\$20,072,844
Research and Economic Affairs	12,564,885
Public Affairs	3,826,323
Business & Finance	3,677,464
University Technology Office	3,052,874
University Student Initiatives	2,128,178
Provost, Office of the	1,177,271
Education Partnerships	750,113
University Administration and Legal Affairs	183,497
ASU Libraries	56,611

Total \$47,490,061

Grand Total \$237,528,694

\*Total research expenditures of \$7,003,512 represent multi-college sustainability projects administered by the Global Institute of Sustainability.

## RESEARCH EXPENDITURES by Sponsor Type

FEDERAL	Health & Human Services - National Institutes of Health	\$40,541,728
	National Science Foundation	39,241,841
	National Aeronautics and Space Administration	15,861,611
	Department of Defense - Army	14,519,446
	Department of Education	14,174,618
	Health & Human Services - Other	7,302,349
	Department of Defense - Air Force	5,289,929
	Department of Energy	4,724,931
	Department of Defense - Other	3,618,350
	Department of Defense - Navy	3,113,652
	Environmental Protection Agency	1,768,668
	Department of the Interior	1,379,031
	Department of Agriculture	1,130,069
	Department of Transportation	492,964
	National Endowment for the Humanities	266,507
National Endowment for the Arts	68,874	
Other	2,047,315	
STATE	Technology & Research Initiative Fund (TRIF)	\$28,149,589
	Arizona State Government	6,198,536
	State Appropriations	68,187
PRIVATE	Foundation (Private)	\$13,914,495
	Industry	11,162,159
	Organization (NGOs)	7,939,395
	Non-Arizona University	1,471,667
	Foundation (Corporate)	206,350
	Non-Arizona State/Local Agency	163,476
	Various Consortium Members	42,159
Individual	27,346	
FOREIGN	Industry	\$2,696,736
	Other	847,037
	Foundation (Private)	99,818
	Government	52,986
	Foundation (Corporate)	0
LOCAL	ASU FOUNDATION	\$6,411,061
	Arizona Municipal Government	\$1,093,004
	Arizona School District	450,571
PROGRAM INCOME	Indian Tribal Governmental Units	143,693
	Sales	\$422,283
	Endowment Income	336,897
	Investment Income	89,366
<b>Grand Total</b>		<b>\$237,528,694</b>



**George Poste** helped spearhead the launch of the \$45 million Arizona-based Partnership for Personalized Medicine, a global effort to improve patient outcomes and reduce health care costs. A total of \$10 million of this major award will be used to appoint two endowed chairs at ASU. Recently, the Partnership secured its first major international collaboration with the government of Luxembourg to explore the development of novel diagnostics for lung cancer.

**The Center for Applied Behavioral Health Policy (CABHP), directed by Michael Shafer** in ASU's College of Human Services, was awarded a \$2.5 million research grant from the National Institutes of Health's National Institute on Drug Abuse (NIDA). The *Arizona Network for the Study of Implementation Effectiveness* joins an existing array of research centers from across the country that comprise the Criminal Justice and Substance Abuse Treatment Studies

(CJ-DATS) collaborative. **Stephen Albert Johnston** is the director of the Center for Innovations in Medicine. He will focus his research on breast cancer. Johnston is one of two researchers in the nation to receive a five-year \$7.5 million grant from the Department of Defense's Innovator Award, funded through the Breast Cancer Research Program.

**Associate Professor of Geology Ariel Anbar** and his group discovered evidence of a surprisingly early "whiff" of oxygen in 2.5 billion year old sediments. This finding supports the idea of early evolution of oxygen-evolving photosynthesis. His work was supported by NASA and NSF and published in two papers in *Science*.



Working under a 10-year cooperative agreement with the U.S. Army Research Laboratory, the **Flexible Display Center at ASU** is developing the technology to make innovative flexible electronic text and image displays for small computers, mobile phones, geographic positioning instruments, and other electronic information devices.

**Ananias Escalante** was awarded a \$3.5 million grant from the NIH for malarial genetics research. His work focuses on molecular evolutionary biology of human and primate malaria parasites.

# MAJOR

# GRANTS

**Professor Kip Hodges** (School of Earth and Space Exploration) and **Assistant Professor Winslow Burleson** (Arts, Media, and Engineering) received NASA funding to collaborate with Jet Propulsion Laboratory and MIT researchers. The group will work on the design of collaborative human-robotic exploration protocols for geologic research on planetary surfaces.



**ASU's biohydrogen project** aims to harness the energy in sunlight using microbial photosynthesis to produce hydrogen. A second part of the project will convert waste materials from the initial process to produce even more hydrogen. The project is one of the first to be funded by the ASU President's Intellectual Fusion fund. This endowed fund is supported by two recent gifts totaling \$22 million. The fund will be used to make seed investments in research areas that push the boundaries of traditional academic disciplines.

Faculty members **Ann Kinzig, Sheila O'Connor** and **Thomas McShane** are leading an interdisciplinary research team studying the trade-offs between development and conservation in three developing countries. The goal is to learn how conservation practices are affected by culture, practice, and social attitudes and how they can be improved. The five-year project, called *Advancing Conservation in a Social Context*, is supported by a \$4.3 million grant to the Global Institute of Sustainability from the John D. and Catherine T. MacArthur Foundation.

**Gro Amdam** is an associate professor in the School of Life Sciences. She was awarded a \$3.2 million grant from the Norwegian Research Council. She will be using the advanced honeybee as a model system to study the origins of social life-histories.

Arizona State University was awarded three grants for solar energy development by the U.S. Department of Energy's Solar America Initiative (SAI). ASU is a leading university in this solar energy development program with six SAI grants.

One of the grants is for \$1.3 million. It went to a team headed by **John Kouvetakis**, a professor in chemistry and biochemistry, and **Jose Menendez**, a professor in physics. The project will explore the photovoltaic potential of new materials that were originally developed for laser applications.

The second SAI grant was for \$1.14 million. It went to a team headed by **Mark van Schilfgaarde**, a professor in the School of Materials. That project is focusing on developing "tandem cell" solar cells where two-material combinations are brought together to most efficiently utilize solar energy.

**The Photovoltaic Testing Laboratory** at ASU Polytechnic was awarded the third grant for \$800,000. In this project, ASU researchers will conduct reliability tests of concentrator photovoltaic (PV) modules developed by commercial companies at the PTL. The PTL is one of just a few such facilities worldwide capable of performing these types of tests and is the only accredited PV qualification testing laboratory in the nation.

It is not only our faculty and research that are winning awards, but our method of instruction. In January 2007, Science Foundation Arizona (SFAz) awarded \$1.85 million in Graduate Fellowships to ASU students. The Fellowships program is geared toward challenging Arizona research institutions to set quality standards for key graduate programs and to recruit and retain bright and creative minds to assist Arizona in creating a knowledge driven economy. The award funded 37 graduate students for up to \$50,000 each. The Graduate Research Fellowship grants were the first from SFAz, with the goal of building world-class science, engineering and medical infrastructure in Arizona by fostering innovative research programs.





# DISCOVERY

Arizona State University is into **nanotechnology** in a big way. According to *Small Times* magazine, ASU ranked sixth overall and scored in the top 10 of three categories in a survey-based scorecard of micro- and nanotech research and commercialization. ASU led the pack in commercialization, due in part to its number of microtechnology and microelectromechanical systems (MEMS) patent filings, and to the commercialization of those technologies by Arizona Technology Enterprises (AzTE). ASU also made the top three in the facilities category and is ninth in education. ASU's research specialties include nanofabrication, nanocharacterization, nanoelectronics, molecular electronics, thin film transistors and organic light-emitting diodes, and silicon nanostructures.

The Global Institute of Sustainability partnered with the Ira A. Fulton School of Engineering to establish the **ASU Solar Power Laboratory**. This new lab is expected to boost economic development in Arizona and become the pre-eminent academic solar energy research, development and training program in the United States. Three widely recognized experts in solar energy research and technology commercialization—Christiana Honsberg, Stuart Bowden, and George Maracas—were recruited to lead the venture. Under the institute's leadership, the lab will unify solar energy-related research efforts throughout the university, bringing together researchers across many disciplines, and develop industry collaborations.

Cheryl Nickerson performed the first study of its kind to investigate **the effect of space flight on the virulence of specific bacteria**, demonstrating that bacteria become more infectious in space, posing a greater risk to flight crews.

Roy Curtiss' team has developed **a new vaccine** that can sneak into the body and self-destruct. The vaccine turns a "foe into a friend" by using salmonella as a versatile vaccine delivery system against a variety of pathogens.

Hao Yan developed the world's first gene detection platform that is made up entirely from self-assembled DNA nanostructures. It is **able to detect genes in a single cell**.

Life sciences faculty member Quentin Wheeler, vice president and dean of the ASU College of Liberal Arts and Sciences, also launched a new institute, the **International Institute of Species Exploration**. Support for the Institute will come from life sciences faculty and staff, including Andrew Hamilton, Tony Gill and Malte Ebach. IISE is pioneering cybertaxonomy and attention to biodiversity and has generated significant national press attention and public interest through high profile publications as diverse as *National Geographic*, *NY Times*, and *Rolling Stone* magazine.



# WORLDWIDE

ASU researchers are part of a team led by UOP, a Honeywell company, that is looking at **alternative sources of oil** that could be used to produce Jet Propellant 8 (JP-8) or military jet fuel. The goal of the project is to develop and commercialize a process to produce JP-8, which is used by U.S. and NATO militaries. The ASU team in the School of Applied Arts and Sciences will lead an effort to demonstrate the technical and economic feasibility of using algae as an alternative feedstock resource. ASU's researchers Qiang Hu and Milton Sommerfeld will screen for oil-rich algal strains, evaluate their potential as oil producers, and develop an algal feedstock production system that will yield competitively priced oil that can be converted into jet fuel. The benefits of oil produced from algae are endless, according to the ASU researchers.

The Biodesign Institute, through funding by partners BP, one of the world's largest energy companies, and Science Foundation Arizona, is leading an ASU initiative to develop a **renewable source of biofuel**. The research effort focuses on using a specially optimized photosynthetic bacterium to produce biodiesel, a sustainable high-energy fuel that can be used in conventional engines. The biofuel is expected to have a much higher yield than alternative biomass substrates and avoids the complex policy issues associated with land usage and diversion of food to fuel.

## These public/private partnerships continue to be an important part of ASU's future research efforts.

The breadth and depth of these relationships are enhanced by the appointment of Todd Hardy as the associate vice president for corporate engagement in the Office of Research and Economic Affairs. In this role, Hardy aligns connections with leading corporations to areas of ASU research and expertise. He also continues to develop programmatic relationships with commercial partners in state, regional, domestic and international markets. Implementing strategic collaborations with SkySong, ASU Foundation, Arizona Technology Enterprises, Greater Phoenix Leadership and Science Foundation Arizona are an integral part of his mission. In addition to corporate initiatives and alliances, Hardy will collaborate with local governments regarding their economic development plans and strategies.



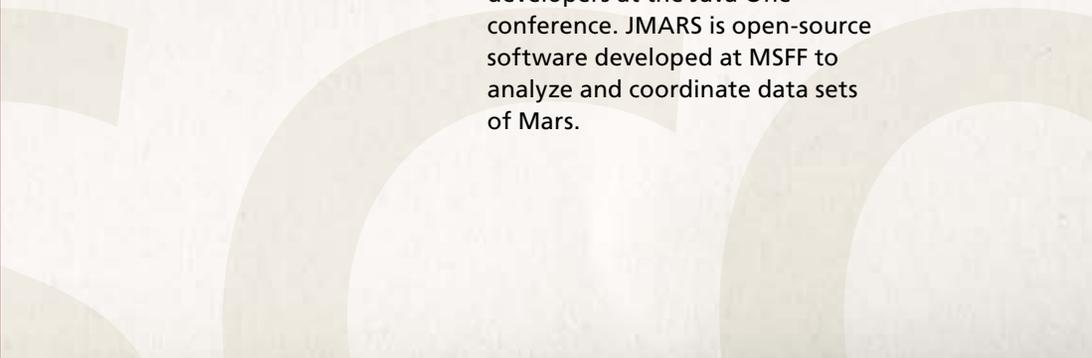
A team of researchers at ASU's Center for Applied Nanoionics (CANi) has a **new take on old memory**, one that promises to boost the performance, capacity and battery life of consumer electronics from digital cameras to laptops. Researchers have been approaching the memory problem from two directions, either trying to leapfrog to the next generation of memory technology, or refining current memory. CANi took both approaches, amping up performance via special materials while also switching from charge-based storage to resistance-based storage.

The Department of Biomedical Informatics is among ASU's newest—and most ambitious—academic and research endeavors. The department enrolled its first class of students during the 2007 fall semester. **"Biomedical informatics"** describes the integration of computer and information sciences with basic biological and medical research, clinical practice, medical imaging and public health disciplines. Part of ASU's School of Computing and Informatics in the Ira A. Fulton School of Engineering, the department is educating students and pursuing research in specialties considered critical to fulfilling the promise of "personalized" or "customized" medicine in which medical care is tailored to specific health profiles of individual patients.

Phil Christensen (School of Earth and Space Exploration) and Jennie Si (Ira A. Fulton School of Engineering) and the Mars Education Program hosted the **China Youth Space Academy**. They brought 15 Chinese high school students to ASU for a space exploration education experience with seven high school students from Nogales, Arizona.

Phil Christensen, Joshua Bandfield and Alice Baldrige used the **Mars-orbiting-camera with JMARS software**, designed and operated at ASU's Mars Space Flight Facility, to find the first evidence for deposits of chloride minerals—salts—in numerous places on Mars. These deposits, say the scientists, show where water once was. Their report shows up in the March 31, 2008, issue of the journal *Science*.

Phil Christensen gave a demonstration of the JMARS software to an audience of 10,000 software developers at the Java One conference. JMARS is open-source software developed at MSFF to analyze and coordinate data sets of Mars.





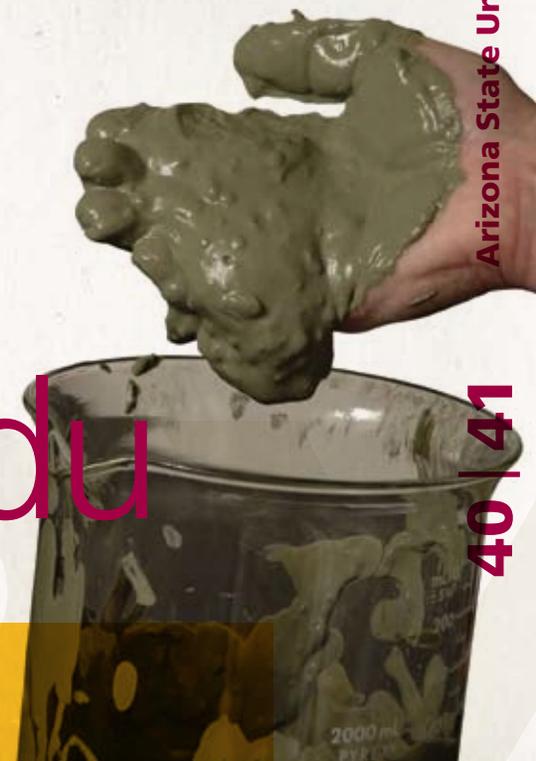
These awards and discoveries represent only a glimpse of ASU's research and creative activities during the past 12 months.

Please visit our Web site to follow ASU's achievements and impact in the months to come.

[asuresearch.asu.edu](http://asuresearch.asu.edu)

Geochemist Lynda Williams and microbiologist Shelley Haydel from Biodesign report that **minerals from clay could provide inexpensive, highly-effective antimicrobials** to fight MRSA infections. In their latest study, funded by the National Institutes of Health, they collected clay samples from around the world to investigate their antibacterial activities and identified at least two clays from the United States that kill or significantly reduce the growth of these bacteria. The antibacterial effect of the French clay was documented this year in the *Journal of Antimicrobial Chemotherapy*.

*ASU Research Magazine*, in its 23<sup>rd</sup> year of publication, won the gold medal as the **best university research magazine** in the United States. The award was presented as part of the 2008 Circle of Excellence program sponsored by the Council for Advancement and Support of Education (CASE) based in Washington, D.C. The staff members at Research Publications have won 28 awards for their work in 2007–2008 alone. The honors come from six different regional, national and international professional communication organizations. The magazine features articles on the research and creative activity of faculty and students at ASU.





ASU  
CARES  
AN ASU COMMUNITY SERVICE PROJECT

expanding

**COMMUNITY**

**TIES**



**ASU is a university born of its community.**

From its earliest incarnation as the Tempe Normal School—training teachers for local classrooms—to the dramatic movement through which it became a university in 1958, ASU has always been an institution built to serve the population of Arizona. Now, as a major research university of more than 60,000 students, the ways in which ASU is committed to Arizona have become manifold.

ASU has built mutually beneficial partnerships with local governments, businesses, public institutions, foundations, and non-profit organizations. These partnerships range from large to small, short-term to long-term, and local to national to international.

Partnerships with the community strengthen the university by helping ASU to be solution-focused, relevant, and a rich part of the social fabric of Arizona. Partnerships with ASU strengthen Arizona by stimulating the regional economy, bolstering individual advancement, binding communities together, guiding local development, and bringing national and international collaborators to the state.



**ASU is not simply rethinking higher education in America; it is also working to improve the entire continuum of education in Arizona, from pre-kindergarten through college. ASU does this by partnering with schools and school districts, building professional development programs for teachers, and collaborating with national non-profit organizations.**

# EDUCATIONAL INNOVATION

A major accomplishment this year was the forging of a multifaceted partnership between ASU and **Teach For America**. The partnership will bolster recruitment into the Teach For America program from ASU students; augment teacher support and development within Arizona; retain and attract Teach For America alumni to take leadership roles in Arizona; and offer Teach For America alumni exciting opportunities at ASU through fellowships in business and law.

Among many other projects, the ASU Office of the Vice President for Education Partnerships successfully launched a Professional Development Initiative for teachers of English Language Learning (ELL) students in the ALPHA school districts. Through the implementation of **“Project ACCESS”** (Academic Content Combined with English for Secondary School Teachers), over 100 teachers will receive their ELL endorsements. And over the last three years 357 student teachers (a 574 percent increase) were placed in ALPHA high needs school districts.



The ASU Biodesign Institute's **MedMyst** program provides middle school teachers with professional development around the theme of Medical Mysteries. The program recruited volunteers for the Arizona Science and Engineering Fair, which took place in March 2008, and made awards for students totaling \$5,000. Biodesign also co-hosted the first Arizona Bioscience Education Pipeline Summit in April and sponsored a show beginning in May 2008 at the Arizona Science Center entitled "Microcosm: The Adventure Within" with a projected student and public attendance of 35,000 people per year.

The **University Public Schools Initiative** bolsters ASU's research capacity and ASU's connection to the Arizona public school system. The first of four schools, named the Polytechnic Center of Education, opened in August 2008. It has enrolled 230 students and hired 15 teachers along with related staff.

During 2007 the ASU **College of Teacher Education and Leadership** continued to develop its relationships with partner schools where ASU students have made a difference in K-12 achievement. Twenty Navajo students graduated from the professional development site in Chinle and plan to remain as teachers in that community. This year the college instituted the High School Leader program in partnership with six districts to train highschool leaders as principals or teacher leaders.

A major change in certification requirements looms for Arizona's kindergarten teachers in 2009. In preparation, the education colleges at ASU's Polytechnic, Tempe and West campuses collaborated this year to design an online program that enables working teachers to add an early childhood endorsement to their elementary education or special education teaching certificate while earning a master's degree.



ASU's partnerships with nonprofit organizations take place across the state, and range from single faculty members collaborating on grants with small organizations to large-scale efforts intricately coordinated among large groups of people.

In 2007–2008 the ASU College of Public Programs strengthened initiatives such as Public Allies Arizona, which is entering its third year. Housed by the ASU Lodestar Center for Philanthropy and Nonprofit Innovation, Public Allies Arizona focuses on building the capacity of those who lead, manage and support nonprofit organizations. It does this by strengthening the skills, networks and experience of diverse young leaders. These talented young people commit to a rigorous and rewarding ten-month program of full-time, paid apprenticeships in community organizations, team service projects and bi-weekly leadership training.

Medical Center Banner Good Samaritan Medical Center and Maricopa Integrated Health System.

The ASU Lodestar Center for Philanthropy and Nonprofit Innovation hosted its annual conference on nonprofit sustainability strategies in downtown Phoenix in November. This event, entitled "Mission and Messaging: Cutting Through the Noise," attracted more than 300 nonprofit sector leaders from all over the state. The conference featured national speakers and local experts who provided knowledge and tools to help nonprofits be more effective.

of Life Sciences graduate students to do collaborative experiments. And Youth Re:Action Corps, another student-startup, just merged to become New Global Citizens with offices in San Francisco and Phoenix, and continuing partnerships with ASU.

The ASU College of Human Services' Partnership for Community Development currently runs 15 large and diverse projects, including a youth leadership program in the town of Buckeye's Verrado community; a project to more effectively leverage and coordinate existing fire department, union, and city resources; and the Arizona Department of

# COMMUNITY DEVELOPMENT

The Office of Clinical Partnerships in the Office of Research and Economic Affairs serves as a link between Arizona State University and its clinical partners in the community. It was created to help ASU researchers strengthen and expand connections to biomedical institutions in Arizona through seed grant funding, joint faculty appointments, shared educational programs and collaborative research. Partners include Mayo Clinic Hospital, Barrow Neurological Institute, Carl T. Hayden VA

Meanwhile student groups are starting up social entrepreneurship ventures and expanding upon existing projects. COAR, Community Outreach & Advocacy for Refugees, was started by a group of ASU students, received a big boost from the Edson Student Entrepreneur Initiative, and has now set up independent offices and is about to turn six. GPSE, Graduate Partners in Science Education provides curricular augmentation for valley seventh- and eighth-graders by grouping them with ASU School

Economic Security Breakthrough Series Collaborative, which works to create new forms of best practices in delivering social services to Arizona individuals, families, and children.

Richard Knopf, director of the Partnership for Community Development, calls the partnership “an incubator within the community so that partners can come together to create energy. In this way, we can combine resources to solve challenges that one entity couldn’t do on its own.”



ASU believes that a public university has a responsibility to serve all citizens. The university can be a resource to citizens, in a plethora of ways.

For example, ASU's Emeritus College engaged in a variety of programs and partnerships designed to bring people together and create an extended ASU community. Emeritus faculty offered 14 five week courses at the Tempe Library on a wide range of topics ranging from "The Brain" to "Paradise Lost As Divine Comedy" to "Relationship Matters." Monthly colloquia and an annual symposium were offered to the public and ASU affiliates. This year the college also published the first two issues of its literary journal this year entitled, Emeritus Voices.

ACCESS  
TO ASU



While the Emeritus College reached out to older citizens, ASU also undertook numerous efforts to reach out to Arizona's youth. In connection with ASU for Arizona, Club ASU engaged 2,200 new young people this year statewide through its various programs. One of these, Inspiring Voices, is a program to help native young people see themselves as college bound. In association with this project, the Club ASU AmeriCorps Vista Volunteer, Paula Stone, won the Governor's Award for Service, National Volunteer Category 2008. Club ASU worked with students and families in Bapchule; Buckeye; Gila River Tribe; Hopi Nation; Laveen; Salt River Tribe; Miami; Pascua Yaqui Tribe, Tucson; Pascua Yazui Tribe, Guadalupe; Payson; Phoenix; and Scottsdale.

ASU sustained and strengthened a number of additional collaborations to support Arizona's K-12 students as they prepare for college.

### In its 24<sup>th</sup> year, ASU's Hispanic Mother-Daughter Program served over 1,000 mothers and daughters in 8<sup>th</sup>-12<sup>th</sup> grade.

Participants attended college preparation workshops on campus and received visits at their respective high schools. The Early Outreach and FOCUS Programs brought over 1,750 8<sup>th</sup>-12<sup>th</sup> grade students to visit ASU campuses, where students learned about preparing for college and ASU's programs. Utilizing their own personal experiences as college students, ASU admissions-based SPARKS student outreach volunteers

reached over 4,000 students in 4<sup>th</sup>-12<sup>th</sup> grades, encouraging them to finish high school, prepare for college, and attend ASU. In its 3<sup>rd</sup> year, the Barrett Summer Scholars program served 141 7<sup>th</sup>-9<sup>th</sup> grade gifted students from across Arizona. Students took academic courses coupled with presentations and field trips to learn about ASU resources and preparing for college. In 2007-2008, 477 freshmen and 220 continuing students participated in ASU Advantage, a financial aid program for Arizona students from low-income families.

Targeted Access ASU efforts with partnering school districts have yielded increased enrollment, as well as collaborative projects between ASU and local schools. These projects include

the development of Advanced Placement and International Baccalaureate curriculums, increased campus visits and the Collegiate Scholars program. Since 1995 the Cesar Chavez Leadership Institute (CCLI) has provided high school students from across the state of Arizona with leadership development skills in a week-long residence-hall-based summer program. More than 500 sophomore and junior high school students have participated in the last 13 years.



# KNOWLEDGE

The ASU **College of Nursing and Healthcare Innovation** has a long history of community partnerships. The Scottsdale Community Health Services Clinic marks its 30<sup>th</sup> anniversary as the first academic nurse-managed health center at a major university in the United States. The Breaking The Cycle health clinic near downtown Phoenix continues to be the only U.S. health center based in a church that provides primary care and family planning counseling. The college has also designed a mobile community health van and two new online programs for child-teen mental health and obesity.

The ASU **Stardust Center** continues its work with community development corporations, tribes, public agencies and developers in creating residential developments that are affordable and sustainable. Currently eight residential developments—with over 800 units total—are either under construction or in the pipeline for development. Chicanos por la Causa and the ASU Stardust Center are collaborating on a 47-unit subdivision currently under construction. This project will be the first Green Communities project in Arizona.

The ASU **Center for Community Development & Civil Rights** focuses on bridging gaps between the university and the community. Over 6,000 community members interact with the center annually via events like the biannual Civil Rights Forum, and topical movie screenings. The center also operates the American Dream Academy, an initiative that teaches parents how to support and advocate for their children in the American K–12 system, in an effort to help bring them into the university fold. By the end of the year the American Dream Academy had graduated over 3,500 parents from the 9-week course; maintained successful relationships with 10 Valley area school districts and non profits; and provided on-site services at over 40 schools.

The ASU **Morrison Institute for Public Policy** collaborates with a number of community groups to produce conversations and reports on issues important to Arizonans. The institute designed its 411 Policy Talk series to bring together community and business leaders with Arizona's great public policy minds. In the most recent event, Arizona Supreme Court Chief Justice Ruth V. McGregor was interviewed in an intimate, "behind the scenes" look at the Arizona judicial system and its impact on public policy.

The ASU College of Design has struck up a number of different partnerships that challenge the way students and the greater community envision and incorporate design. The Phoenix Urban Research Lab's Summer Design Workshop introduces high school students to design, architecture and urban planning while also providing them—many of whom will be the first in their families to attend college—with an entry point to the university.

The ASU School of Life Sciences has also expanded services and connections in the community. This year the school launched two science education podcast programs, Ask A Biologist for K–12 students, teachers, and parents, and Science Studio for adults. Both have been picked by the National Science Foundation to be included in their new online science education website: Science360, joining audiocast luminaries such as NPR's Science Friday on their list.

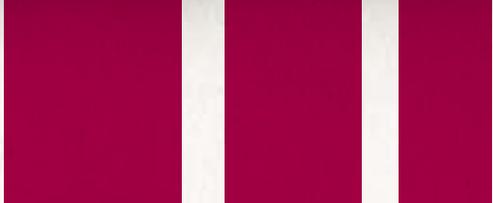
ASU for Arizona is establishing working partnerships with communities across Arizona. This year ASU partnered with the Greater Phoenix Urban League to create "The State of Black Arizona," with the goal of strengthening Arizona's African American leadership.

Now entering its third year, the ASU American Indian Newly Elected Officials orientation program has served over 50 tribal leaders from Arizona with national speakers from Indian country across the U.S. The AINEO serves as a forum for tribal leaders to exchange ideas and experiences and to expand contacts for the future. AINEO collaborates with the Intertribal Council of Arizona (ITCA), the ASU American Indian Policy Institute and ASU American Indian Law Clinic to provide tribal leaders with information regarding tribal governance, policy development and other issues.

# SHARING

**In the classroom, ASU is community-oriented, problem-focused and experience-based. Entire schools are built and organized around knowledge generation that has an immediate impact in the world outside the academy.**





ASU's partnerships with the business community are an integral component of the way ASU remains integrated with Arizona's economy. They also help to support ASU's efforts to make the education it provides immediately relevant to the modern corporate landscape. These partnerships significantly expanded this year with the launch of SkySong—the ASU Scottsdale Innovation Center. SkySong serves as an international business portal for Arizona, housing officespace for over 25 companies from 11 countries. Within weeks of opening, space targeted to partner companies was oversubscribed.

SkySong is ASU's physical headquarters for entrepreneurship, helping to grow businesses and facilitate connections for entrepreneurs. From SkySong, ASU launched the Sun Devil Entrepreneurship Network. It connects ASU students to start-ups, entrepreneurs, and fast-growth enterprises via internships.

Students took advantage of the wide spectrum of entrepreneurial opportunities that ASU offers by building their own businesses and organizations that connect with the larger Arizona community. This year 13 new and three returning ventures were funded by the Edson Student Entrepreneur Initiative, and 24 smaller projects were funded by the Entrepreneur Advantage Project.

The ASU Technopolis program assists more advanced entrepreneurs as they leap hurdles such as licensing, fundraising, and sustainable practice. This year, ASU Technopolis saw its teams achieve stunning milestones, such as a \$22 million investment in one venture; buyouts of Technopolis companies; term sheet negotiations; and a major U.S. Department of Defense grant. Technopolis trained 120 entrepreneurs, representing 50 companies, and investment raised was \$35 million.

Large corporate sponsors have been invited into the classroom in specific settings so as to maximize student growth and achievement. Intel, Herman Miller and Vestar, among others, have collaborated with courses like InnovationSpace in the ASU College of Design to sponsor and then use the work of collaborative, interdisciplinary design teams.

Finally, ASU for Arizona has created a strong ASU connection in rural areas, leading work with the Nogales business community and building new relationships in the business community in Bisbee, Douglas, and Cochise County.

# ECONOMIC ADVANCEMENT

# ENTREPRENEURSHIP

## Entrepreneurship at ASU is growing in every direction.

The creativity and rapid accomplishments behind ASU's ground-breaking, university-wide entrepreneurship model make it a national stand out when it comes to the teaching of venture creation. While many universities offer entrepreneurship courses within the Business School or out of a singular entrepreneurship program, at ASU, high level entrepreneurship activity comes from every corner of the university, embedded within every major, across 22 colleges and four campuses. Interdisciplinary collaboration has placed ASU in a category all its own by fueling some of the most innovative and effective entrepreneurship coursework and applied learning available today.

ASU recognizes the creative enterprise embodied by each of our 65,000 students, as well as everyone connected to Arizona State University. Opportunities for venture training and funding resources are being channeled through one of the most comprehensive entrepreneurship programs in the country. Arizona State University students, faculty, staff and entrepreneurs from the Phoenix metropolitan community prepare to bring innovative products and services to the marketplace and spur the economic, social and cultural development of the 5<sup>th</sup> largest U.S. City.

### UNIVERSITY-WIDE ENTREPRENEURSHIP ENROLLMENT

Introduction Course 9313 (First Time Freshmen)

Additional Enrollment 1,576 (116 Different Majors)

TOTAL STUDENTS TRAINED IN ENTREPRENEURSHIP

10,889

ASU Entrepreneurship offers learning opportunities aligned with individual student majors/ fields of interest

4 Campuses

22 Colleges

116 Different Majors

112 Entrepreneurship Courses Offered

### ENTREPRENEURIAL VENTURE FUNDING APPLICATIONS

	Students	Faculty	Total
Applications	225	23	248
Grants Awarded	\$256,000	\$278,348	\$534,348
New Entrepreneurial Ventures	37 (3 returning)	8	45

# #1

On the strength of three national championships and eight total top-10 national finishes, *Sports Illustrated* named Arizona State University the number one college athletic program in the United States. The Sun Devils also earned fourth-place in the 2007-08 U.S. Sports Academy Director's Cup standings, awarded by the National Association of Collegiate Directors of Athletics.

***Sports Illustrated***  
**names ASU athletics**  
**number 1 in the nation**



## ASU finished the year with three national titles:

The softball team captured its first NCAA-sanctioned national championship, finishing the season with a record of 66-5 and going unbeaten through the entire postseason. It marked their third straight 50-win season, all of which have ended with a berth in the College World Series.

The men's and women's track and field squads both won the NCAA Indoor Championships in March 2008. Each team also posted strong finishes at the NCAA Outdoor Championships, with the women placing second and the men sixth. The women's track and field team was also named the 2008 USTFCCA Women's All-Academic Team of the Year.

For the 2007–08 year, ASU teams posted eight NCAA top 10 finishes or rankings and 14 NCAA. Notable achievements include:

- Baseball won its second consecutive Pac-10 championship and reached the NCAA Tournament for the ninth straight year in 2008.
- Under first-year head coach Dennis Erickson, the football team shared the Pac-10 title with the University of Southern California, made a bowl game for the fourth straight year, and had its first double-digit victory season in 11 years.
- The women's cross country team has earned trophy finishes in two of the last three seasons, placing fourth in the nation in 2005 and 2007.
- Women's basketball has advanced to the NCAA Tournament in each of the past four years, including the Elite Eight in 2006–07.
- Men's golf has made the NCAA Championships six straight years, and they won their eighth Pac-10 title in 16 years in 2008.
- The women's tennis team has advanced to NCAA Tournament play in the past 21 seasons.
- Men's basketball had its first 20-win season in five years and advanced to the third round of the NIT in 2008.
- Junior Azahara Munoz of the women's golf team won the NCAA individual championship in 2008, becoming the ninth

woman in school history to capture the individual title and helping the team to a fifth-place national finish.

Sun Devils also excelled off the playing field. ASU ranked #2 in the Pac-10 Conference and in the top 10 in Division I Athletics for highest number of Academic All-Americans since 2000. Six Sun Devil student-athletes were named Academic All-Americans by *ESPN Magazine*.

Sixty percent of all student-athletes are Maroon and Gold Scholar Athletes, earning a 3.00 GPA or above in the fall or spring semester. Forty-five percent of all student-athletes have a cumulative GPA of 3.00 or above, and 12 have a cumulative GPA of 4.00.

All of ASU's women's athletic teams completed the 2007–08 year with a team GPA over 3.00. Soccer led the way with a 3.61 team GPA with women's golf, softball, and women's tennis all over 3.25. Fifteen of ASU's 22 sports have cumulative team GPAs of 3.00 and above.

Student-athletes also served the community. Four-hundred-fifty student-athletes (85% of the total) performed 2800 hours of community service, working with more than 105,000 youth and adults.

# 50

years of

# Sun Devil Stadium

In 1958, ASU Intercollegiate Athletics was budgeted for football, basketball, track, baseball, tennis, golf, rifle, gymnastics, wrestling and rodeo. These were solely men's sports and were part of the Border Conference. ASU's football team christened Sun Devil stadium by defeating West Texas State 16-13 on Oct. 4, 1958. ASU clinched two Rose Bowl berths in the stadium, and the Sun Devils also pulled off one of the biggest shockers in college football history there on Sept. 21, 1996, beating two-time defending national champion and top-ranked Nebraska 19-0 to end the Cornhuskers' 26-game winning streak. Overall, ASU is 242-84-3, a .740 winning percentage, in the 50 years since moving into the stadium.

The stadium has seen more than just ASU football. It has hosted four college football national championship games—Notre Dame vs. West Virginia in 1988, Nebraska vs. Florida in 1996, Tennessee vs. Florida State in 1999 and Ohio State vs. Miami in 2003—and it was the site of Super Bowl XXX in January 1996, when the Dallas Cowboys defeated the Pittsburgh Steelers to capture the NFL championship. The stadium was also home to the NFL's Arizona Cardinals for 18 seasons from 1988–2005, and it hosted the Tostitos Fiesta Bowl for 35 years until 2006, when it became the new home of the Insight Bowl.

Sun Devil Stadium's reach goes beyond football as well. On April 4, 1976, the New York Cosmos, with Brazilian superstar Pele, met the Los Angeles Aztecs in an exhibition soccer game in front of 15,000 fans in the stadium, and in 1987, the stadium was filled beyond capacity as one of the sites to host Pope John Paul II's tour of the United States.



1958



2008





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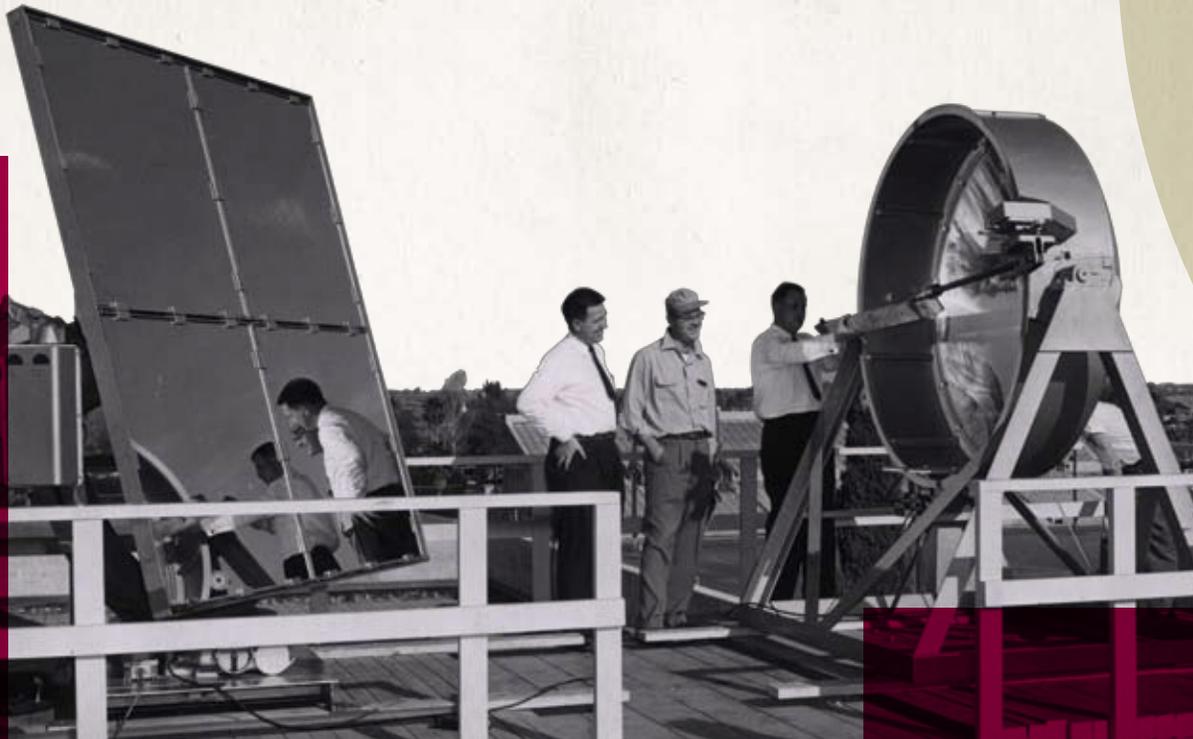
PLEY

propelling

**INVESTMENT**

# PHS

A solar furnace, purchased in 1955 with help from the college's young foundation, created new research opportunities.





The foundation bought adjacent land in east Tempe to help Arizona State College carve out space for its new football stadium.

In 1955, President Grady Gammage worked with a small group of local leaders to incorporate the Arizona State College at Tempe Foundation.



# Now is the time”

In January 1958, President Grady Gammage announced a strategic new direction for the Arizona State College (ASC) at Tempe Foundation — one that could help address the needs of the institution that would soon become a “university” in name as well as in aspiration.

“Now is the time for us to decide whether we shall build here a university merely out of tax funds or shall we build a university greater than tax funds alone can build ... a university to match the community,” Gammage said.

The Arizona State College at Tempe Foundation, today known as the ASU Foundation, was incorporated in 1955. Its original mission focused on “holding title to property, operating said property ... and collecting income therefrom.” A small board worked in close partnership with the Gammage administration and the ASC at Tempe Agricultural Council to help the college acquire the facilities it needed to grow.

Although one of the foundation’s first orders of business was to approve the purchase of a \$15,000 “solar furnace,” with the understanding that ASC would repay this amount from research contracts using the device, real estate transactions usually topped the foundation’s early agendas.

In 1956, it agreed to buy 320 acres of farmland, known as the Jones Ranch, for \$350,000 over three years. Next, the foundation approved a request to buy a tract of land in East Tempe for \$115,000 to further plans for a new stadium on the campus.

These land deals enabled the college to move forward with expansion plans and receive lease revenues while the Arizona legislature crafted the necessary appropriations to buy the land for ASC.

Within months of President Gammage’s 1958 announcement, the foundation board expanded its purpose to include direct fundraising for scholarships, fellowships, programs, buildings, books and art. It signed on to ASU’s \$150,000 Merit and Need Scholarship Campaign and accepted the gift of a patent from a local company that would help support the chemistry department.

The foundation also produced its first fundraising brochure and identified a variety of campus needs that could be privately funded, including a university television station. And the directors voted to change the foundation’s name just as soon as Arizona Governor Ernest McFarland signed the mandate of Proposition 200 into law.

By 1960, the Arizona State University Foundation had raised nearly \$132,000 in donations and membership dues and another \$124,000 in pledges. It calculated that its land purchases on behalf of ASU had saved “the taxpayers of Arizona” about \$178,000.



# RISING TO THE CHALLENGE

Fifty years later, the Arizona State University Foundation is once again helping ASU through a major transformation into a New American University dedicated to meeting the challenges of the 21<sup>st</sup> century: an increasingly competitive, global environment that demands a highly educated and diverse workforce, and a world facing major environmental, political and cultural challenges.

The ASU Foundation projects the ambitious spirit of its early years onto a complex, multi-faceted public university whose mission, operations and achievements have evolved into a national model of commitment to meaningful change.

In 2007–2008, the foundation helped build a culture of philanthropy for ASU, a culture in which gifts are donor investments in ASU’s vast array of intellectual capital, research infrastructure, students and faculty.

The individuals, corporations and organizations who invest in ASU each year see the positive impact of their commitment. They become partners in an exciting movement in American higher education — one that points forward to continued global competitiveness for Arizona and for America.

The ASU Foundation, its trustees and board of directors actively support the vision and innovation of a New American University at ASU. The Foundation works to align the aspirations of private investors with ASU’s reinvention of teaching, learning and discovery in order to advance the public good and promote positive, enduring change.



A photograph of a modern building with a glass facade. The ASU Foundation logo is mounted on the building. The logo features a stylized sunburst icon to the left of the text 'ASU Foundation'. The building is reflected in the glass panels. The sky is a clear, bright blue.

# EXTENDING ASU'S REACH

In addition to fundraising, the ASU Foundation oversees several entities that further the university's mission and provide strategic revenue. This year, these operations made tremendous strides.

SkySong, the ASU Scottsdale Innovation Center, continued on its trajectory to become a premiere location for entrepreneurial, technology-related enterprises. Arizona Technology Enterprises and ASU entrepreneurial programs now occupy space in the first building, which is quickly becoming a resource for the community as well as ASU. The second building is partially leased, continuing SkySong's impressive track record in attracting tenants from across the globe even in a weakened real estate market.



Arizona Technology Enterprises (AzTE) came under new leadership this year when Augie Cheng became the organization's chief executive officer. A new leadership team has been put in place and is quickly advancing AzTE's strategic realignment. With a new team, a strong board, and ASU and ASU Foundation support, AzTE continues to bring ASU discoveries to the global marketplace.



ASU welcomes innovation and initiatives that transcend boundaries. Donors in 2007–2008 invested generously in that vision by supporting the university's leaders. An increasing number of supporters contributed to college and school discretionary funds that give deans and directors the flexibility to seize and promote the most exciting and ambitious opportunities.

# PROMOTING **BOLD IDEAS**

The fiscal year also saw major gift investment in an intellectual fusion fund as well as more than \$39.5 million for cutting-edge research in the natural and social sciences and the humanities—sponsoring knowledge and discovery on a scale needed by Arizona, our nation and the world.

## Transformational Investments

- Susan and Bill Ahearn gave a legacy gift of \$3.5 million to ASU Gammage. Half will be endowed to fund the Cultural Participation Program and the remaining half will go toward a non-endowed fund for capital improvements to ASU Gammage Auditorium.
- Gary and Diane Tooker invested \$4 million in ASU's efforts to enhance K-12 math and science education. The gift will support ASU's ongoing partnerships with educational leaders, workshops for teachers, new curricula and industry/school district partnerships.
- The Virginia G. Piper Charitable Trust granted \$10 million to the Biodesign Institute as part of a larger collaboration with the Flinn Foundation to support the Partnership for Personalized Medicine. The funds will provide resources to fund a global personalized medicine initiative in partnership with TGen.

## McCords, Swettes make \$22 million combined investment in transdisciplinary research

Robert and Sharon McCord and Brian and Kelly Swette made separate commitments this year to establish endowments of \$12 million and \$10 million, respectively. The endowments formed the Intellectual Fusion Investment Fund for ASU for seed investments in research areas that push the boundaries of traditional academic disciplines.

"Gone are the days of one-track learning," says ASU President Michael Crow. "We require, in addition to a new kind of brain power, one that calls for such previously distinct subjects as engineering, the arts, economics, social sciences and biology to blend together."

I wish to commend Bob and Sharon McCord and Brian and Kelly Swette for their foresight in understanding how problems will be solved in the future."

*Immediately, these efforts were served by the Intellectual Fusion Fund:*

- **\$2.5 million**, spanning five years, to drive the development of alternative fuel that uses sunlight and advanced bacteria to create bio-hydrogen.
- **\$1 million**, spanning five years, to the School of Social and Family Dynamics to propel child-development research to better understand how children are affected by common life challenges.
- **\$2.5 million**, spanning five years, to ASU's School of Human Evolution and Social Change to investigate the emergence and evolution of human traits and phenomena over long periods of time.

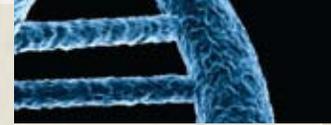
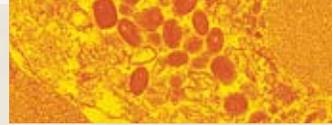
## CORE Construction helps 'build' construction school, other programs

CORE Construction, a longtime friend to ASU, boosted their support this year with a second \$1 million gift. A portion of the gift, \$600,000, supports the Del E. Webb School of Construction's capital campaign, which is generating support to augment its heavy-construction curriculum and build a new academic facility.

The balance of the gift is slated for scholarships and for use at the Polytechnic and West campuses of ASU, as well as the College of Design and ASU Athletics. In addition to their outright gifts in the past few years, CORE made a generous gift-in-kind in 2007, valued at more than \$1 million, to restore the historical landscaping in front of Old Main, ASU's oldest building on campus.

CORE Construction is deeply committed to education and is the No. 1 builder of K-12 schools in Arizona. CORE has also constructed facilities for colleges and universities around the country, including ASU's Hassayampa Academic Village, which opened in fall 2006.

The spirit of CORE's latest gift is a way to recognize the value of ASU to the state's economy and their appreciation of the Del E. Webb School of Construction's contributions to the construction industry.



# PUSHING



# THE BOUNDARIES

ASU faculty and students are excited by the major challenges of our age. They are confident that their research and learning can produce important change.

The donors of 2007–2008 underwrote the creative spirit and optimistic vision of the ASU community through \$16.4 million for academic scholarships and \$4.3 million for faculty chairs and professorships. This support helps the university recruit and keep the best professors and bring to campus brilliant students from every economic and social background.

## Transformational Investments

- The Lodestar Foundation gave \$5 million to the Center for Nonprofit Leadership and Management. The investment is targeted at increasing the understanding of philanthropy's role in society and leading the way to innovation among nonprofits.
- The Carnegie Corporation of New York and the John S. and James L. Knight Foundation granted \$7.5 million to the Walter Cronkite School of Journalism and Mass Communication. The school will use the funds to direct a bold, experimental digital media program at 12 leading U.S. universities.

### ASU alumna increases giving steadily, thoughtfully

Marilyn Kurns has been busy since graduating from the ASU School of Social Work in May 2007 at age 55. She is a full-time crisis clinician at Southern Arizona Mental Health Corporation in Tucson, Ariz. But she hasn't forgotten her ties to ASU, or the indelible impression the university made on her. In the short time she's been away, she's given more than \$25,000 to the school of social work for scholarships, and she hopes to do more.

Kurns is the mother of five children, including twins adopted at birth. In her early 50s, she decided to pursue her passion in social work. Kurns credits ASU for giving her the opportunity to choose and thrive on a new life path.

"My education at ASU was remarkable," she says. "My professors were mentors and the wisdom they imparted to me has helped me achieve success in my new career. I am so pleased to give back. My wish is to make a significant contribution to ASU over the years."



### Law alumnus honors late professor with memorial scholarship

Because the world could use more people like Daniel Strouse, who lost a brief battle against lung cancer in August 2007, law alumnus Dr. John Shufeldt and his wife, Dr. Rene Beckham, made a lead gift of \$75,000 this year to establish a memorial scholarship in Strouse's name. Strouse was a beloved faculty member at the ASU Sandra Day O'Connor College of Law whose wisdom, wit and warmth enhanced the education of hundreds of law students during his 17-year career there.

Shufeldt, a 2005 graduate of the law college and a close friend of Strouse, was moved to create the Daniel Strouse Scholars and Prize to help further the education of law students who embody the fine qualities Strouse exhibited. "He was a Renaissance man, a devoted family man, gracious friend, remarkable teacher, superb musician and approachable mentor," says Shufeldt. "The qualities he possessed were great qualities for law professors as well as lawyers."

Every year, three students associated with the college's



Center for the Study of Law, Science & Technology, which Strouse directed from 1990 to 2001, will each be awarded \$5,000 and the honor of being Strouse Scholars. A \$10,000 award, to be called the Strouse Prize, will be made each year to a deserving law school graduate.

### Professor emerita and late husband contribute faculty chair in peace studies

Arizona State University professor emerita Annabelle (Ann) Hardt and her late husband, Anthony (Tony) Nickachos, have created a named faculty chair at ASU's Center for the Study of Religion and Conflict.

The holder of the Hardt-Nickachos Chair in Peace Studies will lead research and teaching on the ideas, resources and practices that contribute to a sustainable peace. He or she will regularly teach courses in peace studies, provide ongoing leadership and direction in advancing peace studies, and collaborate with other concerned faculty.

"It has been a privilege to work with Ann Hardt on initiatives related to religion, conflict and peace studies over the past few

years," said CSRC director Linell Cady. "It is wonderful to see a former faculty member make so generous an investment in future teaching excellence. We are gratified by her gift as it enables us to focus on an important aspect of our mission."

Spreading an understanding of peace was Ann Hardt's passion as a professor in the College of Education, and it continues to be her passion since her retirement in 1990. During her years at ASU, Hardt taught multicultural education, peace and conflict studies, cooperative learning, elementary education, and school and society. She also directed conferences at ASU on "Alternatives to Violence" and "The Meaning and Control of Conflict."

"For many years, I wanted ASU to have courses in peace," Hardt said. "Several times I taught 'Peace Studies in Education,' which was modeled after an introductory course for peace majors elsewhere. As a society we have studied war and violence, but have had very little study of peace and non-violence. It's time to study peace at ASU."



ASU is on a growth trajectory that will lead to a student population of about 90,000 by 2015 — and a proportional increase in faculty.

At ASU, growth leads to opportunities to increase community engagement with the university and its many programs. From the arts, K-12 partnerships, and public lectures to volunteerism, community outreach, or business and economic forecasts, ASU is a committed partner in the progress of our region and state. Strengthening bonds between the university and its stakeholders is the goal of the foundation's engagement programs and activities.

# STRENGTH IN NUMBERS

## **Business and civic leaders align with President Crow in support of ASU**

ASU President's Club members are among the most ardent supporters of ASU. Contributing to an important source of discretionary funding available to the president, their combined gifts in 2007–2008 provided more than \$1.1 million to support important programs, innovative research and ground-breaking initiatives, as well as to respond to urgent needs. President's Club members, which include nearly 350 of Arizona's most influential business and civic leaders, are closely aligned and interact regularly with the ASU president, providing ideas, critique, analysis and connections that enable the president and ASU to move forward and build vital relationships. Members learn about key ASU activities and strategic initiatives through events designed to inform and inspire. Events last year ranged from the arts, with a behind-the-scenes tour of ASU Gammage, to the latest in cancer research and an update on technology at ASU. Started 24 years ago as a booster club, the ASU President's Club has emerged as a dynamic force within the university environment.

[www.asufoundation.org/presidentsclub](http://www.asufoundation.org/presidentsclub)





### **Women who influence the future through collective philanthropy**

Women & Philanthropy combines the investment power, passion and intellect of more than 200 of the Valley's most influential women. Each year, investors impact the future by pooling their resources and participating in the selection of grant recipients that support the educational, research and public-outreach missions of ASU. This collaborative process allows investors the opportunity to examine the art of philanthropy, explore philanthropic passions and experience firsthand the impact of collective philanthropy. Women & Philanthropy grew more than 25 percent in membership during 2007–2008 and raised more than \$280,000, bringing their total giving over the past five years to more than \$1 million. In addition to philanthropy, members learn how ASU is advancing the quality of life in the community through programs featuring ASU's most renowned scholars. Eight events were coordinated in 2007–2008 on topics that included current research in sustainability, personalized medicine, music and engineering in today's world.

[www.asufoundation.org/womenandphilanthropy](http://www.asufoundation.org/womenandphilanthropy)

### **Programs bring ASU's leading scholars to Valley communities**

Celebrating its 10th anniversary, the President's Community Enrichment Programs (PCEP) are premier educational-outreach programs connecting the Greater Phoenix community to leading scholars and ideas at ASU. PCEP engages the public in issues that affect our world, while highlighting the ways ASU contributes to addressing these major challenges.

Adventures in Learning are multi-week courses that provide an in-depth learning opportunity on topics such as Putin's Russia, Shakespeare Today and Red Hot Economic Issues.

Journeys of the Mind are single-evening presentations designed to give an inspiring glimpse at some of ASU's most intriguing research, which included Children of the Big Bang, 400 Years of Immigration, Bioengineering, and Moral and Legal Issues at Life's Milestones.

In 2007–2008, 17 programs engaged more than 800 attendees at locations throughout the Valley, providing an opportunity for the public to witness why ASU is a world-class university for the 21<sup>st</sup> century.

[www.asufoundation.org/pcep](http://www.asufoundation.org/pcep)

### **Parents become force for ASU student support and opportunity**

The ASU Parents Association was started in 1984 as a small group of local parents hoping to stay connected to their student as they headed to college. Today, every parent of an ASU student is a member. There were 1,500 new contributing members this year who support endowment and discretionary funds for ASU.

The Parents Association currently grants more than \$300,000 a year to a variety of initiatives, including \$170,000 in scholarships. They also sustain a professorship endowment that has become a prestigious award program — Professor of the Year — for the past 12 years and endowments for the Student Services Building and Hayden Library — both hubs of student life.

Additional support goes to safety and emergency initiatives, free tutoring and mentoring, and bridge programs to help freshmen adjust to college life. The power of one parent is significant to a student; their collective power has the ability to create change and opportunity and increase every student's chance for success.

[www.asu.edu/parents](http://www.asu.edu/parents)

# Donor Generosity in 2007–2008

\$120.5 million { }

For the third consecutive year in its history, gifts to ASU have topped the \$100 million mark, a ringing endorsement by donors of ASU's vision for a New American University. Individuals, businesses and private foundations gave more than \$120.5 million.

## Types of Donors (Dollars in millions)



## Purpose of Gifts

(Dollars in millions)

Academic Units  
\$53.8

Strategic Units  
\$20.9

Intercollegiate  
Athletics  
\$21.4

KAET  
\$8.1

Named Institutes  
\$16.3

A large amount of gifts in 2007–2008, totaling more than \$26 million, created new endowments or added to existing endowed funds. These resources provide ASU with reliable, long-term income to support distinguished faculty positions, student financial aid and vital academic programs. The value of the endowment supporting ASU reached \$493 million on June 30, 2008, and the average annual compound return on the investment of these funds for the past three years was 11.2 percent, outperforming both the benchmark and the S&P 500 Index in an exceptionally difficult investment climate.

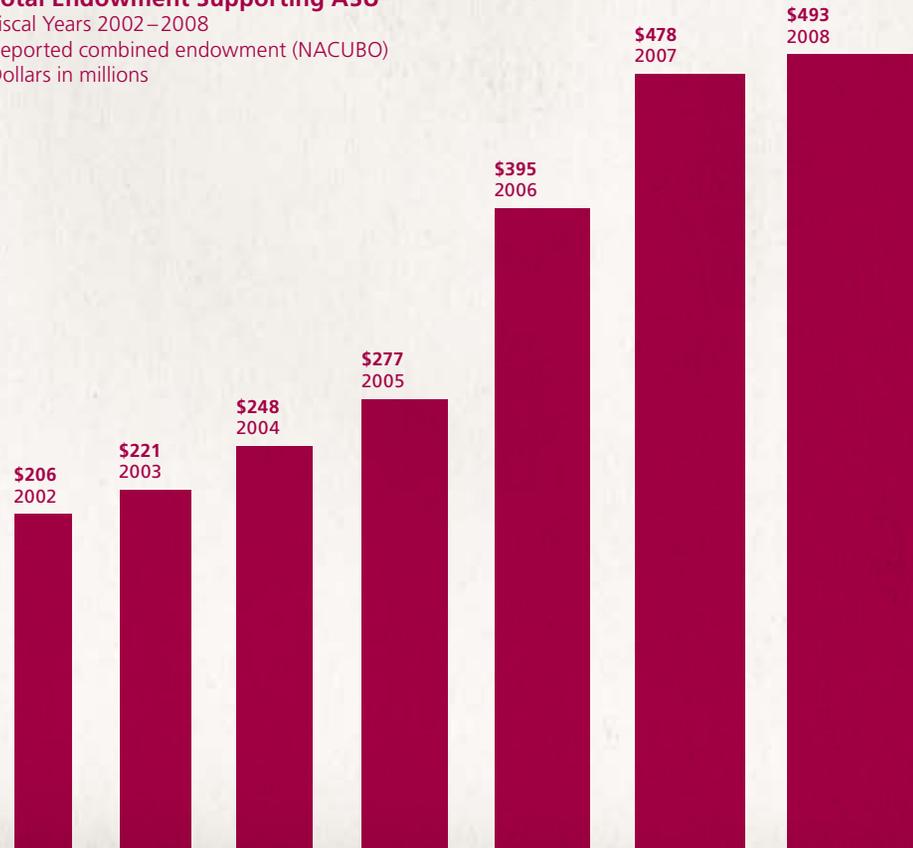
The total assets of the ASU Foundation also grew substantially during 2007–2008, increasing by \$39 million since June 2007. This caps a six-year increase in total assets of \$548 million. For the same period, the foundation's net assets have grown 177 percent—from \$215 million in fiscal year 2002 to \$595 million by June 30, 2008.

### Total Endowment Supporting ASU

Fiscal Years 2002–2008

Reported combined endowment (NACUBO)

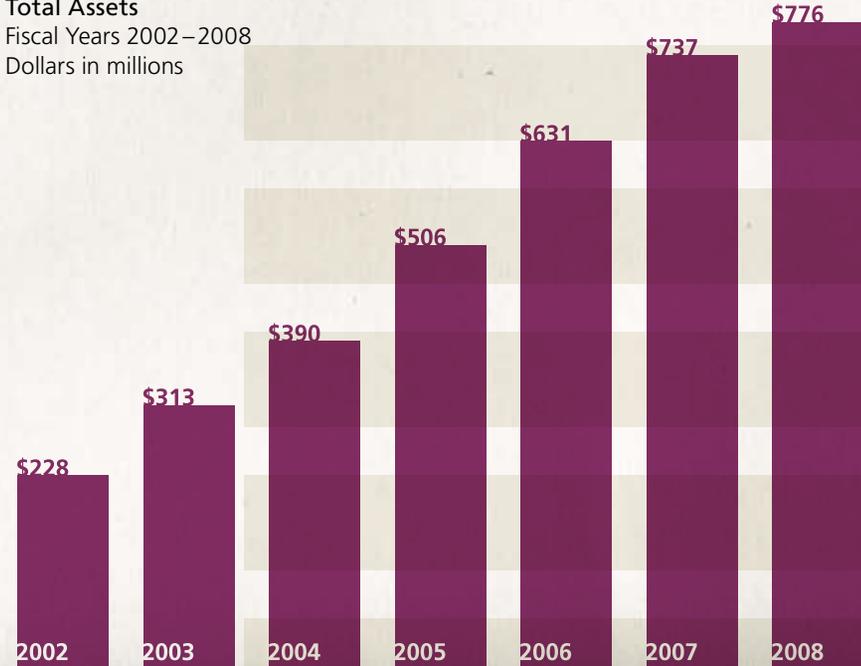
Dollars in millions



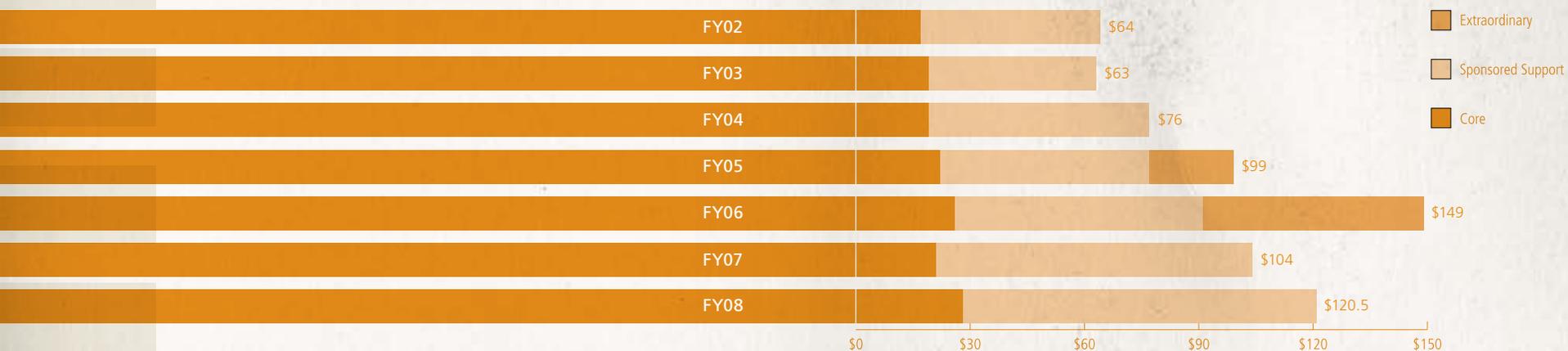
Annual Investment Returns for the Endowment  
Fiscal Years 2002–2008



Total Assets  
Fiscal Years 2002–2008  
Dollars in millions

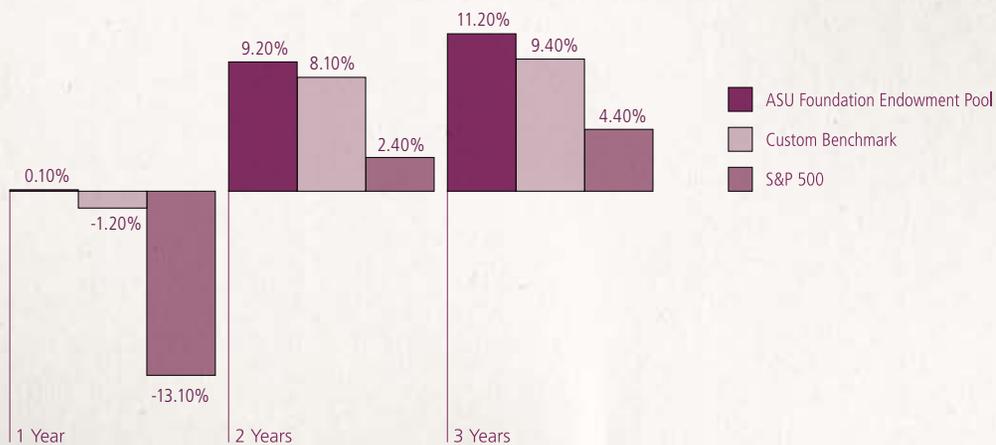


**Gift Revenues for the Benefit of ASU\***  
 Fiscal Years 2002–2008  
 Dollars in millions



\*Gift revenues reported based on standards of the Council for Aid to Education

**Average Annual Compound Investment Returns**  
 As of June 30, 2008



# ASU Foundation

## 2007-2008 Board of Trustees

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From its earliest days as an 'official' university, ASU and the ASU Foundation have together encouraged and enabled private citizens to partner in the progress of a truly amazing public institution. We are once again engaged in a great transformation at ASU, one that will elevate this university's teaching, research and social impact into the foremost ranks of American higher education. Everyone at the foundation is proud to help today's donors register their whole-hearted support for ASU."

Craig E. Weatherup, chairman of the board  
Johnnie D. Ray, president and CEO

## Foundation Leadership

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## Mission

The Arizona State University Foundation works to mobilize the Sun Devil community as an engine for positive change that, through philanthropic investment, will measurably affect society's pressing and challenging issues using ASU's vast constellation of intellectual capital, research infrastructure, students, alumni and friends.

\*Also a member of the ASU Foundation Board of Directors

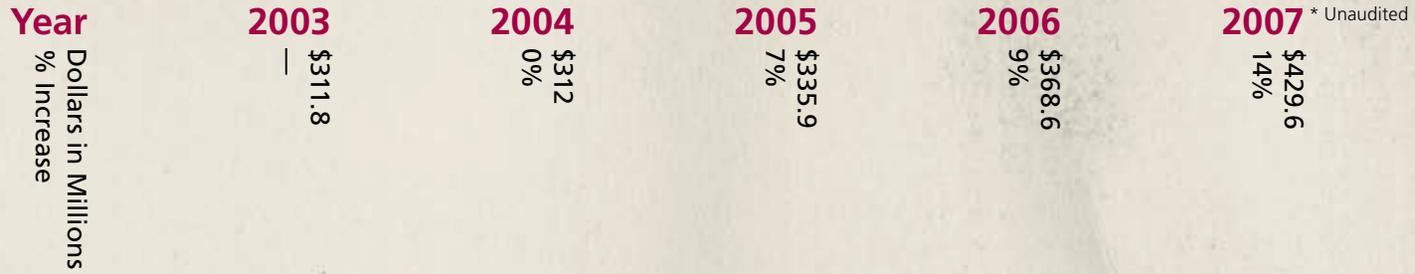
In 1958, ASU enrolled 9,708 students. Fifty years later, ASU enrolled 64,394 students. This growth took vision, determination and substantial investment. Just as the students of 50 years ago were the leaders of their generation, the students of today represent the visionaries and workforce for the next era. Preparing them for this task requires investment —an investment that impacts the state’s economy and social environment. The State of Arizona has increased its investment in ASU by 27% since 2003. This funding comprises an average of one third of ASU’s funding sources.

# State and Student Investment



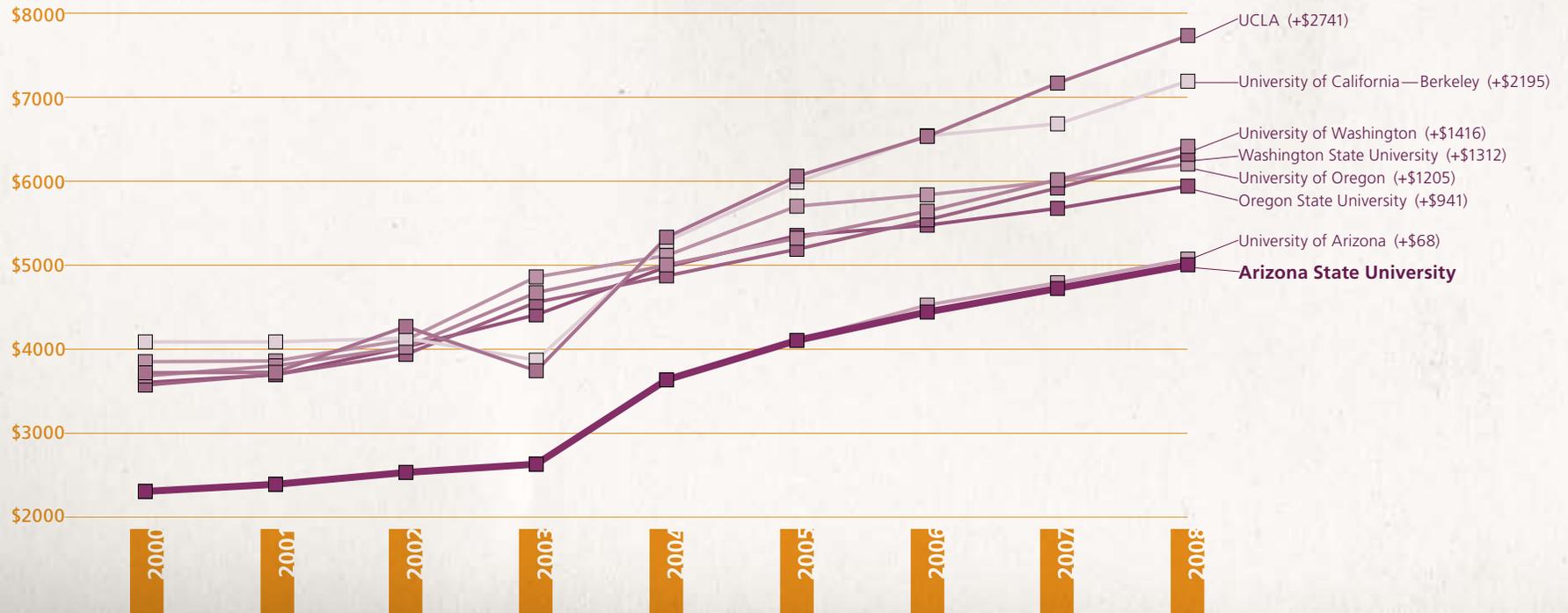
### Investment in ASU by the State of Arizona

ASU invests all sources of revenue wisely to ensure they are spent efficiently, effectively and with impact



### Public PAC 10 Tuition Comparison

Tuition is our second largest source of funding. When compared to our PAC-10 public peer universities, ASU's tuition is the lowest of all other PAC-10 institutions, yet our rankings and performance continue to rise, making an ASU education a tremendous value.



Produced by Arizona State University

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