

## INSIDE INSIGHT

### Air quality

American Indian Policy Institute joins project **2**

### 'Journey to Wholeness'

Actress Jane Fonda to give lecture Oct. 17 **3**

### Arboretum additions

ASU to participate in Campus Tree Tour **5**

### Cultural phenomenon

Book examines legend of Cisco Kid **8**

## Flu shots

Flu shots will be offered at the Tempe campus from 10 a.m. to 2 p.m., Oct. 6-10 and Oct. 20-24, outside the Memorial Union, at the northwest corner. They are free for ASU employees insured through the state of Arizona, and \$21 for other employees.

Shots will be offered at the Downtown Phoenix campus Oct. 14, from 8 a.m. to 10 a.m. at the NHI Building, Health Center, and 11 a.m. to 1 p.m. at University Center, room 822A; at West campus from 10 a.m. to 2 p.m., Oct. 29, in UCB 266; and at the Polytechnic campus from 8 a.m. until 3 p.m., Oct. 27 and 28, in the Union Ballroom.

To receive the shot at no charge, employees must show a valid Arizona-issued employee insurance card and a valid ASU Sun Card, with no exceptions. Benefits-eligible ASU employees who have chosen not to take insurance coverage provided by the state of Arizona and non-benefits-eligible employees may receive a flu shot for \$21. Family members and retirees are not eligible to receive a shot through this program.

Employees newly enrolled with United Healthcare who have not yet received an insurance card should go to [www.myuhc.com](http://www.myuhc.com) and print out a temporary card before requesting a shot. Shots will be given on a first-come, first-served basis for as long as the supply lasts.

## Presidential panel

This year's presidential race has turned out to be a roller-coaster ride of "firsts" and surprises.

So what does it all mean? Where will we be headed after Nov. 4? And how will religion factor into the election?

ASU's Center for the Study of Religion and Conflict will sponsor a free panel discussion on the topic of "Run for the White House: Religion, Race, Gender and the Media," at 7:30 p.m., Oct. 16, at the Tempe Center for the Arts, located at 700 W. Rio Salado Parkway.

"Religion is a dynamic force in American politics," says Linell Cady, director of the center and the panel's moderator. "This election has revealed so many different aspects of the role religion plays in our public life, at the level of symbolism as well as personal identity."

Panelists will be scholar-writers Diane Winston and Eddie Glaude.

Winston holds the Knight Chair in Media and Religion at the Annenberg School for Communication at the University of Southern California.

Glaude, the William S. Tod Professor of Religion and African-American Studies at Princeton University, is nationally recognized for his work on African-American religion and its place in American public life.

The program is free, but reservations are suggested due to limited seating. To R.S.V.P., go online to [csrc.asu.edu](http://csrc.asu.edu), or call (480) 727-6736. For more information, contact Carolyn Forbes at (480) 965-1096 or [carolyn.forbes@asu.edu](mailto:carolyn.forbes@asu.edu).



John Anderies



Bertan Bakkaloglu



Jennifer Fewell



Danwen Jiang



Jason Robert



Hao Yan

## Exemplars represent best, brightest at ASU

6 outstanding faculty hailed as 'rising stars'

By Sarah Auffret

Six faculty members who are "rising stars" in the ASU firmament have been named exemplars by President Michael Crow. These teacher-scholars are pioneers, some still early in their careers, producing such high-quality teaching and research that they set an example for others to follow.

They include a world-class violin-

ist, an electrical engineer who came to ASU from private industry, and four scientists whose work crosses boldly over disciplinary boundaries.

Three are assistant professors who have earned tenure with promotion to associate professor status. They are John "Marty" Anderies in the School of Human Evolution and Social Change and Jason Robert in the School of Life Sciences, both in the College of Liberal Arts and Sciences; and Danwen Jiang in the School of Music, Herberger College

of the Arts.

Bertan Bakkaloglu, an associate professor of electrical engineering in the Ira A. Fulton School of Engineering, received tenure. Jennifer Fewell received promotion to professor in the School of Life Sciences, College of Liberal Arts and Sciences.

Hao Yan is such a prolific and talented scholar that he was promoted from assistant professor to full professor with tenure in the Department of Chemistry and Bio-

chemistry, College of Liberal Arts and Sciences.

Anderies is a pioneering researcher on the resilience of social-ecological systems, using a range of analytical techniques to study how individual decision-making processes influence social and environmental outcomes. He has developed new ways of helping science students understand and work with mathematical methods.

"Marty is one of the very rare breed of young scientists who is as

(See EXEMPLARS on page 6)



Supporters of Proposition 200, which passed in November 1958, pose for the camera.

## Waiting on 'U': In 1958, Sun Devils' biggest wish came true via Prop. 200

**Editor's note:** As ASU gears up for its 50th Homecoming, this first article in a series of stories takes a look at one of the milestones along the university's path over the past five decades.

By Judith Smith

In 1958, gasoline was 25 cents a gallon. The average American income was about \$5,000 per year, and drivers could buy a new car for less than \$2,500.

And at ASU, which at the time was known as Arizona State College, the students, staff and faculty were fired up.

They had just come off of a huge push to build an expanded Memorial Union – the Arizona Legislature had authorized \$400,000 for the building, but the esti-



mated cost was \$1.5 million – and the ASU community, undaunted, went to work raising the remaining funds by having talent shows, carnivals, shoe-shine booths, a toad race and more.

(See WAITING on page 7)

## ASU's research expenditures shoot up 8.7% in fiscal year '08

By Skip Derra

ASU's research expenditures in fiscal year 2008 grew to nearly \$238 million, up \$19 million (or 8.7 percent) compared to fiscal year 2007. This growth happened during a time when university funding for research by the federal government failed to match inflation.

"Our growth shows how varied and significant our research is at Arizona State University," says R.F. "Rick" Shangraw Jr., ASU vice president for research and economic affairs. "This bodes well for our future, because we have a strong, diverse research portfolio that crosses and integrates many disciplines and is vital to our country."

"Our expenditures grew in what generally was a flat year for university research because of our interdisciplinary research expertise," adds Stephen Goodnick, ASU associate vice president of research. "The areas we grew the most – biosciences, alternative energy and flexible displays – all are interdisciplinary research areas."

ASU's \$237.5 million total research dollars for fiscal year 2008 comes from a variety of sources. ASU spent \$190.5 million in funds received from the federal govern-

(See RESEARCH on page 7)

## Ditto takes reins as ASU's bioengineering leader

By Joe Kullman

An accomplished researcher, scholar, administrator and entrepreneur is the new chair of the Harrington Department of Bioengineering in ASU's Ira A. Fulton School of Engineering.

William Ditto comes to ASU from the University of Florida, where he is the founding chair of the J. Crayton Pruitt Family Department of Biomedical Engineering, and holds the position of J. Crayton Pruitt Family Eminent Scholar Endowed Chair.

Ditto worked in research for the Navy, and in prominent science and engineering departments at Georgia Tech and Emory University before joining the University of Florida



William Ditto

in 2002.

He has founded three com-

panies based on technological advances developed through his research.

The entrepreneurial spirit that is a focus of ASU's model for the "New American University" is a significant factor in his decision to take a new job.

"A cornerstone of ASU's philosophy is the encouragement of rapid movement from creativity and discovery to invention, to putting new technology out there into the market and the community," he says. "I want to become a part of that trajectory

of aggressive innovation that ASU is leading."

Deirdre Meldrum, dean of the engineering school, says Ditto was selected for his potential to play a key role in plans to expand the school and cement its place among the leading engineering schools in the nation.

"His creativity, experience and tenacity to implement ideas will enable ASU to build stronger partnerships with the medical community in the Valley, to grow our bioengineering

(See NEW on page 7)

## ASU's American Indian Policy Institute joins air quality project

By Adriana Elektra Sanchez

ASU's American Indian Policy Institute is working with American Indian tribal governments, the state of Arizona and the U.S. Environmental Protection Agency to research and assess air quality in central Arizona.

The Joint Air Toxics Assessment Project (JATAP) is a multi-jurisdictional effort to assess the distribution, sources and potential health risks associated with air toxins in the Valley. It was initiated by the Salt River Pima-Maricopa Indian Community, which was interested in learning more about the possible transport of air toxins from nearby urban areas and from a major transportation route through its community.

The Arizona Department of Environmental Quality and the Gila River Indian Community joined the project, along with the US Environmental Protection Agency, to better understand the sources and distribution of air toxins throughout the Valley with the ultimate goal of reducing health and environmental risks posed by pollution.

A key element of the project was the understanding that air pollution does not stop at jurisdictional boundaries.

The JATAP partners selected seven monitoring sites in the study area. The sites, which sampled air toxins from 2005 to 2006, were located in the Salt River Pima-Maricopa Indian Community; central, west and south Phoenix areas; Queen Valley; and the Gila River Indian Community.

The monitors found and measured 16 pollutants, 10 of them identified as potential carcinogens.

Analysis of the data indicates that the highest concentrations of air toxins are emitted primarily from vehicles. Decreasing concentrations were found at monitors whose locations were farther from major transportation routes. The lowest levels of air toxins were seen at the Queen Valley remote site, followed by the Gila River and Salt River monitoring sites.

"It is important to measure the presence of these substances, because long-term and uncontrolled exposure to them can have adverse consequences for human health, as well as the environment," says Dennis Pagano, environmental health scientist for the EPA. "The understanding of these potential exposures can help communities develop strategies to reduce those exposures and protect the health of their residents."

Pagano, who is on a detail from EPA, has been working in the ASU American Indian Policy Institute for the past 10 months coordinating project activities and assisting in the development and implementation of a risk assessment using the JATAP monitoring data.

Patricia Mariella, director of the American Indian Policy Institute, says the project was groundbreaking because of the excellent collaboration among tribes, the state and counties in an effort to better understand air pollution. In addition, the tribes and the Arizona Department of Environmental Quality gathered high-quality micro- and neighborhood-scale monitoring data that had not been available before the project work.

"The excellent quality of the field data, as well as the sophisticated levels of laboratory analysis, are critical to conducting

meaningful risk assessments to understand the health effects of air toxins," Mariella says.

She is coordinating the JATAP efforts to develop communication and outreach plans, and researching air toxin mitigation strategies from across the United States.

The research included analysis of the unintended consequences (such as school overcrowding) of California ban on the expansion or construction of schools near freeways to reduce risks from air pollution.

The American Indian Policy Institute's research on risk reduction also identified a range of strategies for existing sensitive land uses near high-traffic roadways, including use of electrostatic filters in buildings, roadway design and materials, limitations on diesel-using truck traffic and use of toxin-filtering plants as part of roadway landscaping.

These mitigation findings are of particular importance to the Salt River Pima-Maricopa Indian Community, which has Highway 101 running through it, to the Gila River Indian Community, which has been approached as a possible location for the proposed South Mountain Freeway, and to communities throughout the state with high-traffic roadways.

The project succeeded in developing a lasting relationship among the various partner agencies, obtaining a metropolitanwide understanding of exposures and risks, and developing a dynamic model that could have a practical application in other communities.

*Sanchez, with Media Relations, can be reached at (480) 965-9579 or aesanchez@asu.edu.*

### Career Fest links students with job opportunities

By Steve Des Georges

For more than 10 years, ASU's Career Fest has been connecting West campus students with recruiters and industry professionals from across the country in an effort to give graduates a head start in their post-education career search.

The next Career Fest scheduled on the West campus takes place from 11 a.m. to 2 p.m., Oct. 9, in the University Center Building (UCB), La Sala.

"Career Fest gives ASU students, alumni and community members the chance to connect with organizations offering internship and career-related opportunities," says Sarah McDermott, employer relations specialist in career services at the West campus.

This year, participants completing an event evaluation will have the chance to win a free Kaplan Test Prep course valued at up to \$1,800.

The annual Career Fest has become the West campus' largest recruiting event, and students are encouraged to dress professionally and bring their résumés.

Career Fest is co-sponsored by Career Services at the West campus and Alpha Kappa Psi. A list of participating companies and job postings is available online at [www.west.asu.edu/career](http://www.west.asu.edu/career) and by clicking on "Sun Devil CareerLink."

*Des Georges, with Public Affairs at the West campus, can be reached at (602) 543-5220 or [stephen.desgeorges@asu.edu](mailto:stephen.desgeorges@asu.edu).*

## Shortliffe to lead national biomedical organization

By Joe Kullman

The leading professional biomedical and health informatics organization has chosen an Ira A. Fulton School of Engineering professor to become its next president and chief executive officer.

Edward Shortliffe will take the helm of the American Medical Informatics Association (AMIA) in July. He is a professor in the Department of Biomedical Informatics, a part of the School of Computing and Informatics in ASU's engineering school.

Shortliffe, who also is a professor of medicine and basic medical sciences at the University of Arizona, was the founding dean of the Phoenix campus of the University of Arizona College of Medicine in partnership with ASU.

The 4,000-member AMIA works to foster development and application of informatics in support of patient care, public health, teaching, research, administration and related policy. Its members advance the use of health information and communications technology in clinical care and clinical research, personal health management, public health and population, and translational science, with the goal of improving health. (More information about AMIA is available online at [www.amia.org](http://www.amia.org).)

Shortliffe wants to see AMIA "become a major force in the evolution and improvement of our health system and the quality of care in the United States."

With increasing recognition of the need for major change in the health care systems, AMIA is already becoming a significant source of advice for state and local governments, organizations and corporations, he says.

With the expertise of its members, AMIA can help address such issues as increasing health care access, improving administrative efficiency, and reducing errors throughout the health care system, he says.

The choice of Shortliffe to lead the AMIA "reflects the high caliber of our biomedical informatics program, and it is going to boost our prominence at a national level," says Sethuraman Panchanathan, director of the School of Computing and Informatics. "It's an honor to have someone of his experience and stature in the field in the department."

ASU already has established a reputation for introducing an impressive new academic program in biomedical informatics under department chair Robert Greenes, Shortliffe says.

"A closer relationship with AMIA will draw more recognition for our educational and research programs. That will help us recruit new faculty and graduate students of the highest quality," he says.

Shortliffe came to Arizona in 2007 from a position as chair of the Department of Biomedical Informatics at Columbia College of Physicians and Surgeons in New York. Previously, he was a professor of medicine and computer science at Stanford University for more than two decades.

At Stanford, he led the establishment of the graduate degree program in biomedical informatics in the early 1980s. He divided his time there between internal medicine practice and biomedical informatics research.

At Columbia University, where he also was deputy vice president for Strategic Information Resources, he directed the Medical Informatics Services for NewYork-Presbyterian Hospital.

He continues to be closely involved with biomedical informatics graduate training at ASU and his research interests include a broad range of issues related to integrated decision-support systems and their effective implementation, and the role of the Internet in health care.

Shortliffe is a founding member of AMIA and one of the five AMIA fellows who created the American College of Medical Informatics. He also is an elected member of the Institute of Medicine of the National Academy of Sciences, the American Society for Clinical Investigation, the Association of American Physicians, and the American Clinical and Climatological Association.

He also has been elected a master of the American College of Physicians and is a fellow of the American Association for Artificial Intelligence, and he has written more than 300 articles and books on medical computing and artificial intelligence.

Shortliffe is to be AMIA president and chief executive for at least three years. In addition to his duties with the organization, he will continue to be director of graduate training in ASU's biomedical informatics department.

For more information about the biomedical informatics program, visit the Web site <http://bmi.asu.edu/index.php>.

*Kullman, with the Ira A. Fulton School of Engineering, can be reached at (480) 965-8122 or [joe.kullman@asu.edu](mailto:joe.kullman@asu.edu).*

## 5 businesses earn Spirit of Enterprise honors

By Debbie Freeman

Despite rough economic times, many Arizona businesses are leaving positive marks on the local and state economies. Five businesses recently were named Spirit of Enterprise Award winners for boosting the economies in the Valley and across Arizona, and for giving back to the community.

The awards are given out by ASU's W. P. Carey School of Business to recognize Arizona companies that demonstrate ethics, energy and excellence in entrepreneurship. This year's 10 finalists generated more than \$1 billion in annual revenue last year.

The 12th annual award winners, and the awards, are:

- American Traffic Solutions Inc. (ATS) – Emerging Entrepreneur Award sponsored by Edward Jones. ATS is an industry leader in the deployment of red-light and speed-camera enforcement programs in more than 120 communities nationwide.

- ATS Electric Inc. – Special Achievement in Entrepreneurship Award sponsored by Rich Dad. This commercial electric contracting company has shown remarkable growth over the past few years, even starting an employee stock ownership plan. The company almost closed in 2004 because of slow business but now expects to top \$16 million in revenue this year.

- Community Tire and Automotive Service Specialists – Overcoming Adversity Award sponsored by the Arizona Lottery. This car repair and tire replacement company almost went out of business after discovering in 2003 that its then-executives had embezzled more than \$1.2 million, but a financial backer jumped in and helped turn things around without laying off a single employee.

- Sundt Construction Inc. – Entrepreneurial Leadership Award. Officials

with this 100 percent employee-owned construction company say they emphasize teamwork, training and education, plus giving back to the community through its nonprofit Sundt Foundation. Sundt Construction plans to top \$1 billion in revenue this fiscal year.

- Televerde – Innovation in Entrepreneurship Award. This high-tech marketing company brings training and opportunities to women housed in the Arizona Department of Corrections' Perryville facility. More than half of the company's corporate employees graduated from its knowledge centers within the Perryville facility, where its educational programs taught them skills and helped them build confidence to become contributing business professionals.

The other Spirit of Enterprise finalists this year are CRS Temporary Housing, Global Water, NextCare Urgent Care, Sleep America and TASER International Inc.

Shirley G. Schmitz, who recently wrote a book about entrepreneurship called "Guts, Imagination, Vision; Conversations with Innovators-Change-makers," was recognized with the Visionary Entrepreneur Award. Schmitz, a founder, charter funder and longtime benefactor of the Spirit of Enterprise Center, is trying to teach others about the tools for success.

These awards are just one focus of the Spirit of Enterprise Center, which helps hundreds of businesses each year. The center offers companies the chance to recruit students while also allowing students to get hands-on business experience. For more information about the center, visit the Web site [www.spiritofenterprise.org](http://www.spiritofenterprise.org).

*Freeman, with the W. P. Carey School of Business, can be reached at (480) 965-9271 or [debbie.freeman@asu.edu](mailto:debbie.freeman@asu.edu).*

## ASU Insight

ASU Insight is published by Media Relations, a department within the Office of Public Affairs. ASU Insight is published on Fridays, except during university holidays and other times as deemed necessary by the Insight editorial board. Submit items typed, double-spaced. The editor reserves the right to edit for style and space. Bring items to the Administration Building, room B353, send e-mail to [asu.insight@asu.edu](mailto:asu.insight@asu.edu), fax (480) 965-2159 or send campus mail to 1803 – ASU Insight. Telephone (480) 965-9689.

**Deadlines:** Submit all articles, notices and calendar items as early as possible. **Deadline is Friday before noon for the following Friday's paper.**

Assistant Vice President: **Terri Shafer**  
Communications Manager:

**Gary Campbell**

Editor/Publisher: **John Jarvis**

Associate Editors: **Lisa Campbell,**

**Britt Engle**

Photographer: **Tom Story**

**Printed on paper from Sustainable Forestry Initiative (SFI) certified mills and forests.**

## Fonda to speak about 'Journey to Wholeness'

By Carol Hughes

Jane Fonda's official biography describes her as "an avid reader, hiker, fly fisherwoman and yoga enthusiast." American audiences know her as an award-winning actress and producer.

Faculty and students at Emory University School of Medicine in Atlanta view her as the benefactor behind the Jane Fonda Center for Adolescent Reproductive Health. Many others around the world describe her as an activist, advocating on environmental issues, human rights, and the empowerment of women and girls.

Fonda, 70, also is an author. Her 2005 memoir "My Life So Far" made its debut as No. 1 on the *New York Times*' best-seller list.

Fonda will be at ASU Oct. 17 to give this year's Feldt/Barbanell Women of the World Lecture, offering her insights on "Sex, Gender and the Journey to Wholeness." This annual lecture is presented by ASU's Women and Gender Studies program in the College of Liberal Arts and Sciences. It is free and open to the public.

"We believe knowledge about women and gender leads to action," says professor Mary Margaret Fonow, director of the Women and Gender Studies program. "Our graduates have found successful careers in law, education, business, government and in the nonprofit sector serving the needs of their communities. Similarly, Jane Fonda has found success in several areas – from the theatrical stage to the world stage – now focusing much of her time on activism and social change."

Among her projects, Fonda chairs the Georgia Campaign for Adolescent Pregnancy Prevention, a statewide effort she founded in 1995. The program's goal is to reduce the high rates of adolescent pregnancy in Georgia through community, youth and family development training of professionals who work with adolescents.

Previously, Fonda traveled to Nigeria and produced a documentary about adolescent girls titled "Generation 2000: Changing Girls' Realities," a collaborative project with the International Women's Health Coalition.

"Fonda has made the rights of women an important part of the international human rights agenda – and just like last year's speaker, Gloria Steinem, her message continues to inspire new generations of young women," Fonow says. "We are pleased to be able to bring her to ASU as part of the Feldt/Barbanell Women of the World Lecture Series."

Fonda was born in New York, the daughter of movie star Henry Fonda and Frances Seymour Fonda. She now lives in Atlanta, along with her daughter Vanessa Vadim and two grandchildren. Her son, Troy Garity, an actor, lives in Los Angeles.

Fonda attended the Emma Willard School in Troy, N.Y., and Vassar College. In her late teens, she studied with renowned acting coach Lee Strasberg and became a member of Actors Studio in New York.

Her stage and screen work earned numerous nominations and awards,



Jane Fonda

including an Oscar for best actress in 1971 for "Kluge" and in 1978 for "Coming Home," and an Emmy for her performance in "The Dollmaker." She starred in dozens of highly acclaimed productions and went on to become a film and television producer.

Her film and television credits including "Coming Home," "The China Syndrome," "Nine to Five," "Rollover," "On Golden Pond," "The Morning After" and "The Dollmaker." In 2005, the year her memoir ranked No. 1 on the *New York Times*' best-seller list, "Monster-in-Law," her first film in 15 years, also became the No. 1 box office hit, making Fonda the first person to simultaneously have a No. 1 book and No. 1 movie. Her most recent film, "Georgia Rule," opened in spring 2007.

Fonda also is credited with revolutionizing the fitness industry with the 1982 release of "Jane Fonda's Workout." She followed with the production of 23 home exercise videos, 13 audio recordings and five books – selling 16 million copies all together.

On the international front, Fonda was named Goodwill Ambassador for the United Nations Population Fund in 1994. She is a member of the Women and Foreign Policy Advisory Committee of the Council on Foreign Relations. She also sits on the board of V-Day: Until the Violence Stops, a global effort to stop violence against women that began in 1998 by Eve Ensler, author of "The Vagina Monologues."

In 2004, Fonda co-founded, along with Steinem and Robin Morgan, the Women's Media Center, a nonpartisan, nonprofit progressive women's media organization based in New York whose mission is to ensure that women and women's experiences are reflected in the media just as women are present everywhere in the real world.

During her visit to Arizona, Fonda will read from her memoir "My Life So Far" at a fundraiser for the Women's Media Center. Serving on the board of the center is Gloria Feldt, who along with Alex Barbanell are the benefactors of the Feldt/Barbanell Women of the World Lecture, which was established in 2002 to bring to ASU prominent individuals to address issues of a global nature and their effects on women.

Feldt is an author, speaker and women's rights advocate who is the past president and chief executive officer of Planned Parenthood Federation of America. Barbanell, a retired insurance executive, is an ASU history department alumnus and one of the founding members of the Dean's Council in the College of Liberal Arts and Sciences.

This is the fifth year for the Feldt/Barbanell Women of the World Lecture. Previous speakers, in addition to Steinem, include Nafis Sadik, Kathleen Turner and Eve Ensler. Fonda's lecture will be at 7 p.m. in Neeb Hall on ASU's Tempe campus. Seating is available on a first-come, first-served basis and is limited. Doors open at 6 p.m.

More information is available by phone at (480) 965-2358 or online at [wgs.asu.edu](http://wgs.asu.edu).

Hughes, with the College of Liberal Arts and Sciences, can be reached at (480) 965-6375 or [carol.hughes@asu.edu](mailto:carol.hughes@asu.edu).

## Study measures relationship between music, mood

**Editor's note:** Because this project is still ongoing, the students' names have been altered to conceal their identities.

By Judith Smith

Oxytocin is a hormone that, according to recent research, is one of the central players in "modulating certain social behaviors in the mammalian brain."

So why is a music professor at ASU studying oxytocin?

Gary Hill, director of bands, has long been interested in the connection between mood and music, and he is taking a step toward finding more answers about how music affects our moods – and ability to learn – with a seed grant from the Institute for Humanities Research titled "Oxytocin: Fueling Music's Power in Human Emotions, Memory and Restoration."

"Few people would argue against the claim that music is good for you," Hill wrote in his project narrative. "Yet, despite music's omnipresence – its pervasiveness further amplified in 'wired' societies – our understanding of its core relationship to human evolution remains sketchy."

"The primary goal of this project is to address, through transdisciplinary protocols, specific questions concerning music's primacy to humans, thereby reframing its meaning as an essential element of humanness."

The grant includes a pilot study involving ASU music students and a conference Oct. 10. For the research project, 10 students were asked to volunteer to have blood drawn six times: before and after they participated in a large musical ensemble, before and after playing in a small ensemble, and finally, before and after practicing their instruments alone, to see how the various musical situations affected their oxytocin levels.

Before giving blood the first time, the students filled out questionnaires asking them to describe their musical experiences as they were growing up; their relationship with other musicians, music and their instrument; and the styles of music they most enjoy playing.

Then, before and after each blood draw, they

were asked to complete a visual analog scale rating their feelings – if they were feeling sad or joyful, anxious or calm, tense or relaxed, and so on.

"Jim," a trombonist, says he loves playing his instrument but feels stress when he makes a mistake in a large ensemble.

"If I play poorly or miss a note in a large ensemble, I don't think, 'Well, there are a lot of people to cover up my mistake,'" he says. "Either way, I messed up – and I'm going to beat myself up for it."

He adds: "I've always had a love-hate relationship with the trombone. I've always loved playing it when I can perform the music very well. But I have some physical handicaps – specifically my tonguing ability – that has prevented me from performing at the level I wish to be at, regardless of how much I practice."

"Mary," who plays the clarinet, says she enjoys playing in large and small ensembles – and by herself, too.

"After playing in a large ensemble, I feel more relaxed and secure," she says. "Making music in a large group gives me a sense of belonging in a community. Everyone is working together toward the same goal, and we are usually trying to evoke some kind of emotion through our music. In a really focused rehearsal, I can easily be distracted from my everyday stressors and become consumed with the emotion of the music."

Though the data from the bloodwork has not yet been analyzed, the psychosocial data shows that "in general, it seems that making music does have an overall positive effect on mood," says Lisa Ehlers, a faculty associate in the Herberger School of Music who is one of the research partners. "It seems to affect joyfulness most positively, and does relatively less toward alleviating worry. Energy is also affected more positively."

Three other faculty members are participating in the study. Dana Rosdahl, an associate professor in the College of Nursing and Healthcare Innovation, is researching the bio-behavioral influence of interventions and the oxytocin

study will add to her understanding of heart-rate variability.

Kay Norton, an associate professor who teaches music history, has done research on the ways that music has been seen to positively affect the human condition, both historically and in modern culture. Her research mission with the oxytocin project is to "supplement our anecdotal knowledge that 'music is good for you' with current scientific findings."

The final faculty partner is Robin Rio, an associate professor of music therapy.

The Oct. 10 conference, which will take place in the Computing Commons, is titled "Oxytocin and Music." It will include presentations by five scholars. The speakers and their topics are:

- Claudius Conrad, a research fellow at the Harvard Stem Cell Institute and Massachusetts General Hospital Cancer Center who also is a concert pianist, "Hormonal Changes Secondary to Music in Very Ill Intensive Care Patients."

- Walter Freeman, director of the Freeman Laboratory for Nonlinear Neurodynamics and professor emeritus of neurobiology at the University of California-Berkeley, "The Putative Role of the Intermittent Release of Oxytocin for Unlearning in Alteration With Learning in Social Contexts."

- Joanne V. Loewy, director of the Louis Armstrong Center for Music and Medicine at Beth Israel Medical Center in New York, title to be announced.

- Steven Mithen, dean and professor of archaeology at the School of Human and Environmental Sciences, University of Reading, UK, "Learning to Sing: Evolutionary and developmental Perspectives."

- Tores Theorell, professor emeritus of psychosocial environmental medicine, Karolinska Institutet, Stockholm, "Examining and Comparing Parasympathetic System Activity in Pianists, Flute Players and Singers."

For more information about the conference or research, contact Hill at (480) 965-4392 or [gary.hill@asu.edu](mailto:gary.hill@asu.edu).

Smith, with Media Relations, can be reached at (480) 965-4821 or [jps@asu.edu](mailto:jps@asu.edu).

## In THE NEWS

ASU experts frequently are called upon by the local and national news media to provide insight and opinion on current events and issues of public interest. Following are excerpts of recent news articles featuring ASU representatives.

A proposed \$700 billion federal bank and mortgage bailout, which recently failed a vote in the U.S. House of Representatives, would include foreign banks with U.S. assets as well regional and smaller banks, according to the U.S. Treasury. ASU economist **Anthony Sanders** says financial markets already have collapsed and expects more bank failures. "There is little capital available for lending, and defaults and foreclosures are increasing," he says. "So there will be numerous bank failures before this is over. This will take years to work out." *Phoenix Business Journal*, Sept. 22.

Tijuana's newest cultural center, called the "House of the Tunnel," sits atop a former drug trafficking tunnel that ran from this Mexican border city to a California parking lot. ASU art history professor **Amelia Malgamba** says she is impressed that the center turned "a drug-trafficking place into a place that traffics in art and ideas." *San Diego Union-Tribune*, Sept. 26.

At law schools nationwide, interest in Indian law is growing as the economic clout and political influence of the nation's 562 federally recognized tribes have expanded. ASU's Indian Legal Program allows students who are pursuing their law school degrees to simultaneously earn certificates in Indian law. They study the differences between the legal systems of tribes and that of the U.S. government. "More big law firms are looking for people who are knowledgeable about Indian law," says **Kathlene M. Rosier**, director of ASU's program. *Chronicle of Higher Education*, Sept. 26.

Experts say Maricopa County sheriff Joe Arpaio has a huge advantage for re-election, in part because of his ability to use the media – and his incumbency – to political advantage. He long ago mastered the art of using local and national media to get his message and face before the public, says **Kelly McDonald**, an assistant professor of communication at ASU. McDonald said some of the sheriff's news conferences in recent months have had the air of political ads. "It's hard to think of them not as political, but he has the *prima facie* defense that 'I'm just enforcing the laws on the books,'" McDonald says. "There's very little evidence of him actually campaigning." *Arizona Republic*, Sept. 27.

**James Svava**, a public affairs professor at ASU, recently commented on political ethics, saying that "small towns are first-person politics – and, if people are close, it's hard to separate one's own personal interest and one's own personal property from the work of the city. I think in a small town there is a greater likelihood that people will accept that you will pay careful attention to friends and neighbors." He adds that there may be some local gossip about it, but not a lot of public scrutiny. "At the national level, there will be far more people watching, there will be far more pressures to come forward to try to influence the outcome." *Associated Press*, Sept. 28.



Events are free, unless otherwise noted. Items in the "Exhibitions" section run at exhibit opening and on the first of each month only. Building abbreviations are listed according to the official ASU phone directory. Send information to Judith Smith at [jps@asu.edu](mailto:jps@asu.edu) or fax (480) 965-2159. For information about ASU events, visit the Web at <http://events.asu.edu>.

## Meetings

### Monday, Oct. 6

**University Senate**, 3-5 p.m., Education Lecture Hall room 117. Information: (480) 965-2002.

## Lectures

### Friday, Oct. 3

**"A Talk in Two Parts,"** 10:30 a.m., Durham Language and Literature Building (LL) room 316. Maureen Daly Goggin, editor or co-editor of five scholarly collections, speaks on "A Stitch in Time: Janie Terrero's 1912 Suffrage Signature Handkerchief" and "Ins and Outs of Editing Scholarly Collections." Sponsored by The Rhetoric Society of America at ASU. Information: (480) 965-7611.

**"The Importance of Molecular Structure in Aerosol Formation from the Oxidation of Hydrocarbons,"** noon, Bateman Physical Sciences Center (PS) H-151. Speaker: Paul Ziemann, Department of Chemistry, University of California-Riverside. Sponsored by Department of Chemistry and Biochemistry. Information: (480) 965-2093.

**"How Does Your Garden Grow? Mechanical Sensing and the Regulation of Growth in Arabidopsis,"** 2-3 p.m., Life Sciences Center (LS) E-104. Speaker: Simon Gilroy, Botany Department, University of Wisconsin-Madison. Sponsored by School of Life Sciences. Information: (480) 965-2705.

**"Ferroelectric Materials: Applications, Characterization, and Modeling,"** 2-3 p.m., PS H-153. Speaker: Chris Lynch, University of California Los Angeles. Sponsored by Mechanical and Aerospace Engineering Department. Information: (480) 727-0476.

**"Brute Force: On the Strategic Origins of Meaning and Speech Acts,"** 3 p.m., Coor Hall room 120. Speaker: Mitch Green, Cavaliers' Distinguished Teaching Associate Professor of Philosophy, University of Virginia. Sponsored by Department of Philosophy. Information: (480) 965-3394.

**"Spatial Analytic Methods in Health Utilization and Outcomes Research,"** 3:30 p.m., Coor Hall room 5536. Speaker: Lee Mobley, RTI International. Sponsored by School of Geographical Sciences. Information: (814) 591-6421 or [bpompeii@asu.edu](mailto:bpompeii@asu.edu).

### Monday, Oct. 6

**"A Brilliant Idea for a Test Aid – the Yunfu qunyu of the Yuan Dynasty (1279-1368),"** 3-4:30 p.m., LL room 165. Speaker: Young Oh, assistant professor of Chinese. Part of the Work-in-Progress Lecture Series. Information: [silc@asu.edu](mailto:silc@asu.edu) or (480) 965-6281.

### Tuesday, Oct. 7

**"Arizona Work Force: Latinos, Youth and the Future,"** 7:30 a.m., Ritz Carlton Phoenix, 2401 E. Camelback Road, Phoenix. Roberto Suro delivers the inaugural César E. Chávez Leadership Lecture. Suro is founder of the Pew Hispanic Research Center and professor at the University of Southern California's Annenberg School of Journalism. Sponsored by ASU Office of Public Affairs in partnership with the Helios Education Foundation. R.S.V.P.: (480) 965-1592. Proceeds benefit ASU César E. Chávez Leadership programs.

**Transdisciplinary Humanities Book Award**, 3:30-5 p.m., Social Sciences building, room 109. Marita Sturken, recipient of the Institute for Humanities Research's first Transdisciplinary Humanities Book Award. Lecture, presentation of award and book signing.

### Wednesday, Oct. 8

**"Protein Folding by Zipping and Assembly Method,"** 3:40 p.m., Barry M. Goldwater Center (GWC) room 487. Speaker: Banu Ozkan, ASU. Refreshments at 3:30 p.m. Sponsored by Center for Biological Physics. Information: (480) 965-4073.

**"The Power of Women in Overcoming Obstacles and Challenges,"** 5:30-7:30 p.m., Old Main Carson Ballroom. Speaker: Kemba Smith, a graduate of Virginia Union University who spent more than six years in federal prison after being convicted of distributing crack cocaine. Prosecutors acknowledged that she never sold or used drugs. She was granted clemency by President Bill Clinton. Presented by Black Graduate Student Association. Information: [bgsa@asu.edu](mailto:bgsa@asu.edu).

**"New Approaches in the Archaeology of South Pueblo, Mexico: Sites, Politics and Saltworks,"** 3:30-4:30 p.m., School of Human Evolution and Social Change (SHESC) room 340. Speaker: Blas Castellon. Sponsored by the School of Human Evolution & Social Change. Information: <http://shesc.asu.edu/colloquia>.

### Thursday, Oct. 9

**Physics Colloquium**, 4 p.m., PS F-123. Speaker: David Haase, North Carolina State University-Raleigh. Sponsored by Department of Physics. Information: (480) 965-9075.

### Friday, Oct. 10

**"The Combined Application Of 2D NMR Techniques and Fourier Transform Ion Cyclotron Mass Spectrometry for Unraveling the Chemical Composition of Natural Organic Matter: A New Analytical Approach,"** noon, PS F-151. Speaker: Patrick Hatcher, Department of Chemistry & Biochemistry, Old Dominion University. Sponsored by Department of Chemistry and Biochemistry. Information: (480) 965-2093.

**"Creating a Scientific Discipline: Konrad Lorenz, Niko Tinbergen, and the Founding of Ethology,"** 2-3 p.m., LS E-104. Speaker: Richard Burkhardt, professor of history emeritus, University of Illinois. Sponsored by School of Life Sciences. Information: (480) 965-2705.

**"Zero-Power Locomotion Models,"** 2-3 p.m., PS H-153. Speaker: Mario Gomes, ASU. Sponsored by Mechanical and Aerospace Engineering Department. Information: (480) 727-0476.

**"Eco-Policies and Generative Programs for Sustainable Cities (part of the Late Lessons in Early History initiative),"** 3:30 p.m., College of Design North room 60. Speaker: Besim S. Hakim, FAICP, AIA, a consultant in urban design, an independent scholar and a former professor of architecture and urban planning who has been researching and writing about traditional cities from the Mediterranean region since 1975. Sponsored by School of Geographical Sciences and School of Human Evolution & Social Change. Information: [bpompeii@asu.edu](mailto:bpompeii@asu.edu) or (814) 591-6421. [http://geography.asu.edu/colloquium08\\_hakim](http://geography.asu.edu/colloquium08_hakim).

### Wednesday, Oct. 15

**"Wind Down, Sleep Well,"** 12:15-12:45 p.m., University Center Building, 2nd Floor, 411 N. Central Ave., Phoenix. Speaker: Ken Wysocki MS, FNP-C, professor, ASU College of Nursing and Healthcare Innovation. R.S.V.P.: (602) 496-0600 or [ASUlectures@asu.edu](mailto:ASUlectures@asu.edu).

**"Energy Policy: The European Perspective,"** 3 p.m., Global Institute of Sustainability (GIOS) room 481. Speaker: Barbara Buchner, energy and environment analyst with the International Energy Agency. Sponsored by Arizona Public Service, GIOS and the W. P. Carey School of Business. Information: [rod.groff@asu.edu](mailto:rod.groff@asu.edu).

**"Molecular Dynamics at Biological Cell Surfaces,"** 3:40 p.m., GWC room 487. Speaker: Nancy Thompson, University of North Carolina-Chapel Hill. Refreshments at 3:30 p.m. Sponsored by Center for Biological Physics. Information: (480) 965-4073.

**"Does 'Getting Tough' on Crime by Increasing Adult Prosecution of Juvenile Offenders Create Criminals and Discriminate Against Minority Youth?"** 4:30-6 p.m., University Club South Room. Speaker: John Foreman, attorney in the Arizona attorney general's office, former Maricopa County superior court and juvenile court judge. Part of the "Seeking Justice in Arizona" lecture series sponsored by the School of Justice and Social Inquiry. Information: (480) 965-7682.

### Thursday, Oct. 16

**Physics Colloquium**, 4 p.m., PS F-123. Speaker: Dmitry Matyushov, ASU. Sponsored by Department of Physics. Information: (480) 965-9075.

**"Notes From the Field: Cyprus,"** 6 p.m., LS A-191. Speakers: Steve Falconer, SHESC, and Nancy Serwint, School of Art. Sponsored by the Archaeological Institute of America, Central Arizona Chapter. Information: (602) 738-5784 or [almira.poudrier@asu.edu](mailto:almira.poudrier@asu.edu).

**Flinn Foundation Centennial Lecture**, 7:30 p.m., Paul C. Galvin Playhouse. Speaker: Leonard Downie Jr., executive editor of the *Washington Post*. Sponsored by Barrett, the Honors College. Information: (480) 965-0161.

**"Presidential Politics 2008: Religion, Race, and the Media,"** 7:30 p.m., Tempe Center for the Arts, 700 W. Rio Salado Parkway, Tempe. Participants are Linell Cady, Diane Winston and Eddie Glaude. Part of the "Religion and Conflict: Alternative Visions" lecture series sponsored by the Center for the Study of Religion and Conflict. Information: (480) 727-6736 or [csrc.asu.edu](http://csrc.asu.edu).

### Friday, Oct. 17

**Life Sciences Lecture**, 2-3 p.m., LS E-104. Speaker: Nancy Fossett, University of Maryland, School of Medicine, Center for Vascular and Inflammatory Diseases Department of Pathology. Sponsored by School of Life Sciences. Information: (480) 965-2705.

**"Sex, Gender & The Journey to Wholeness,"** 7 p.m., Neeb Hall. Speaker: Actress Jane Fonda. Sponsored by the Women and Gender Studies Program. Information: (480) 965-2358.

## Miscellaneous

### Friday, Oct. 3

**"Hybrid Course Development: Part I: Getting Started,"** 2-4 p.m., Coor Hall L1-80. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

### Monday, Oct. 6

**"Making Career Decisions: What Is it You Really Want?"** 3:30-5 p.m., Student Services building (SSV) room 329. Sponsored by Career Services. Information: (480) 965-2350 or [www.asu.edu/career](http://www.asu.edu/career).

**"Classroom Assessment Techniques: The Empty Outline & Memory Matrix,"** 12:15-1:30pm, Discovery Hall room 212. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

### Wednesday, Oct. 8

**"Faculty Book Club: Part 1,"** 1-3 p.m., Discovery Hall room 212. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

### Thursday, Oct. 9

**"Selling Your Skills: Résumés and Cover Letters That Get Results,"** 3:30-4:30 p.m., SSV room 329. Sponsored by Career Services. Information: (480) 965-2350 or [www.asu.edu/career](http://www.asu.edu/career).

**"STAR in the Employment Interview,"** 4:30-6 p.m., SSV room 329. Sponsored by Career Services. Information: (480) 965-2350 or [www.asu.edu/career](http://www.asu.edu/career).

**"Critical Thinking: Analytical Summary,"** 12:15-1:30 p.m., Discovery Hall room 212. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

### Friday, Oct. 10

**Ollie's Storybook Adventures**, 10-11 a.m., Deer Valley Rock Art Center, 3711 W. Deer Valley Road, Phoenix. "Desert Sounds" is the theme. Admission: \$2.50 per child; \$2 older siblings; \$2 additional adults; and no charge for accompanying adults. Reservations required: (623) 582-8007.

**"Hybrid Course Development: Part 2: Building Online Community,"** 2-4 p.m., Coor L1-80. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

### Saturday, Oct. 11

**Helping Hands for Hunger**, 9 a.m.-2 p.m., St. Vincent de Paul, Phoenix. Volunteers will work at St. Vincent DePaul from 10 a.m. to noon, then attend the Oxfam Hunger Banquet. Sponsored by Downtown Student Engagement and ASU Community Service Program. Information or request for special accommodations: (480) 965-0305 or [volunteer@asu.edu](mailto:volunteer@asu.edu). Registration: [www.asu.edu/mu/community](http://www.asu.edu/mu/community).

### Monday, Oct. 13

**"Classroom Assessment Techniques: One Minute Paper, Muddiest Point,"** 12:15-1:30 p.m., Discovery Hall room 212. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

**"Selling Your Skills: Résumés and Cover Letters That Get Results,"** 3-4:30 p.m., SSV room 329. Sponsored by Career Services. Information: (480) 965-2350 or [www.asu.edu/career](http://www.asu.edu/career).

**"STAR in the Employment Interview,"** 5-6:30 p.m., SSV room 329. Sponsored by Career Services. Information: (480) 965-2350 or [www.asu.edu/career](http://www.asu.edu/career).

**Superstition Review reading**, 7:30 p.m., Student Union Cooley Ballroom B, Polytechnic campus. The *Superstition Review* is a national literary magazine published by undergraduate students at the Polytechnic campus. Information: (480) 727-1537.

### Tuesday, Oct. 14

**"Time Management,"** 12:15-1:30 p.m., Discovery Hall room 212. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

### Wednesday, Oct. 15

**"Using Rubrics to Encourage Self-Assessment,"** 12:15-1:30 p.m., Discovery Hall room 212. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

**"Rick Steves Smart Travel II,"** 7 p.m., Orpheum Theater, 200 W. Washington St., Phoenix. A travel seminar sponsored by Eight/KAET-TV. Admission: (480) 965-2877. [www.azpbs.org/eightboxoffice](http://www.azpbs.org/eightboxoffice).

### Thursday, Oct. 16

**"Selling Your Skills: Résumés and Cover Letters That Get Results,"** 10:30-11:30 a.m., SSV room 329. Sponsored by Career Services. Information: (480) 965-2350 or [www.asu.edu/career](http://www.asu.edu/career).

### Friday, Oct. 17

**"Hybrid Course Development: Part 3: The Learning Cycle,"** 2-4 p.m., Coor L1-80. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

**Decision Theater tour,** 3-4 p.m., Decision Theater, 21 E. Sixth St., suite 126A, Tempe. Information: Michele.nobles@asu.edu.

**Science Café,** 5:30-6:30 p.m., Arizona Science Center, 600 E. Washington St., Phoenix. The topic: "Will Genetic Discrimination Replace Racial Discrimination?" Sponsored by the Center for Nanotechnology in Society at ASU. (602) 716-2000.

**Reading by playwright Luis Valdez,** 7:30 p.m., Paul V. Galvin Playhouse. Sponsored by Virginia G. Piper Center for Creative Writing. Information: (480) 965-6018.

## Events and Performances

\*Indicates tickets are available at Herberger College of Fine Arts Box Office, Nelson Fine Arts Center, (480) 965-6447.

\*\*Indicates tickets are available at ASU Gammage, Mill Avenue and Apache Boulevard, (480) 965-3434; ASU Kerr Cultural Center, 6110 N. Scottsdale Road, Scottsdale, (480) 596-2660.

### Friday, Oct. 3

**Friday Conversations in the Gallery,** noon-1 p.m., ASU Art Museum. Meet local artist Steve Yazzie. Information: (480) 965-2787.

**"We Won't Pay! We Won't Pay!"** 7:30 p.m., Lyceum Theatre. A rollicking comedy of stolen groceries, hysterical pregnancies, political awakenings and hilarious comeuppances by Nobel Prize winner Dario Fo. Continues at 7:30 p.m., Oct. 4; 2 p.m., Oct. 5.\*

**"Nonsense II: The Second Coming,"** 7:30 p.m., Evelyn Smith Music Theatre. The sisters work their comic magic around the set dressing of "The Mikado." Also at 7:30 p.m., Oct. 4 and Oct. 10-11; 2 p.m., Oct. 5, 12.\*

### Saturday, Oct. 4

**"The Last Word,"** noon-2 p.m., Harkins Valley Art Theatre, 505 S. Mill Ave., Tempe. A 90-minute documentary about Johnny Frank, Garrett, a 17-year-old retarded boy who was arrested, convicted and executed for the Halloween night rape, mutilation and murder of Sister Tadea Benz. Part of the Scottsdale International Film Festival. Film director Jesse Quackenbush will host a discussion immediately after the screening. Sponsored by the ASU Justice Project, at the Sandra Day O'Connor College of Law. Free, but tickets required: [scott.seymann@asu.edu](mailto:scott.seymann@asu.edu).

### Sunday, Oct. 5

**Pianist Bob Ravenscroft,** 3 p.m., ASU Kerr Cultural Center, Scottsdale. Ravenscroft celebrates the music of Bill Evans.\*\*

### Monday, Oct. 6

**"East Meets West,"** 7:30 p.m., ASU Gammage. The ASU Sinfonietta performs music by Glinka, Balakirev, Sibelius, Geršwin and Copland.

### Friday, Oct. 10

**Coffee at Kerr,** 10:30 a.m., ASU Kerr Cultural Center, Scottsdale. David Friesen and Uwe Kropinski preview their Oct. 11 performance. Free, but R.S.V.P. required: (480) 596-2660. Bring a can of food or sealed personal item for Vista del Camino food bank.

**Arizona Contemporary Music Ensemble,** 7:30 p.m. in Katzin Concert Hall.

### Saturday, Oct. 11

**"Cloudless,"** 7 p.m., ASU Gammage. Artistic director and modern-dance choreographer Susan Marshall celebrates the 20th anniversary of Susan Marshall & Co. through the humorous and moving work "Cloudless."\*\*

**David Friesen and Uwe Kropinski,** 8 p.m., ASU Kerr Cultural Center, Scottsdale. Friesen plays Shakuhachi flute and bass, and Kropinski plays percussion and guitar – sometimes at the same time.\*\*

### Sunday, Oct. 12

**"La Toccata Italiana,"** 2:30 p.m., Organ Hall. Italian organist Francesco Cera, traces the history of the organ toccata with works by Frescobaldi, Rossi, Muffat and J.S. Bach.\*

**"Face to Face in a Frenzy,"** 3 p.m., ASU Kerr Cultural Center, Scottsdale. A one-man play by artist and mask-maker Zarco Guerrero.\*\*

### Tuesday, Oct. 14

**Tuesday Morning Music Concert,** 10:30 a.m., ASU Kerr Cultural Center, Scottsdale. Enjoy a performance by ASU Wind Ensembles. Free, but R.S.V.P. required: (480) 596-2660. Bring a can of food or sealed personal item for Vista del

## ASU selected for Campus Tree Tour

By Judith Smith

Thanks to the eagle eyes of Laura Johnson, an office specialist with the Office for Research and Sponsored Projects Administration, and the hard work of Deborah Thirkhill, program coordinator for the Arboretum at ASU, the Tempe campus will have 100 new trees as of Nov. 7.

The best part of all is that they are a gift from the National Arbor Day Foundation and Toyota.

ASU was selected to be one of nine colleges and universities to receive trees – and to be the site of a Campus Tree Tour 2008 tree-planting event.

Also selected for the Campus Tree Tour were Oregon State University, the University of Texas-Austin, the University of Nebraska, Virginia Tech, Northern Kentucky University, Jackson State University, the University of Michigan and the University of California-San Diego.

The Campus Tree Tour is designed to "demonstrate the numerous educational and environmental benefits that trees provide to college campuses as well as our environment," says Jennifer Boettcher, program manager for the National Arbor Day Foundation.

Boettcher said the Nebraska-based foundation selected ASU to be part of the Campus Tree Tour because of its "outstanding application and desire to plant trees."

Johnson learned about the Campus Tree Tour program last May, when she was scrolling through e-mail in the ORSPA general-announcements mailbox. As a tree lover, Johnson was fascinated when she came across the Campus Tree Tour solicitation announcement from the National Arbor Day Foundation.

Her boss, Deborah Shaver, suggested she contact the Arboretum, so she sent a note to Mitzi Steinmann in Facilities Management, who in turn passed along the information to Thirkhill.

Thirkhill immediately started drafting the application, and she received the good news of ASU's selection in July.



TOM STORY PHOTO

**ASU's Tempe campus will have 100 new trees this fall as part of the Campus Tree Tour 2008 tree-planting event.**

Deciding which trees to order for the campus was like being in a candy store with \$100 to spend – or, in Thirkhill's case, wandering through a nursery with Santa Claus in tow.

"Everyone on staff at Grounds Services/Arboretum provided input for what trees they would like to see on campus," Thirkhill says.

"Ellen Newell, associate director of Grounds Services, Mike Schantel, assistant director of Grounds Services, and Fernando Reyna, manager of Grounds Services, will decide the final list.

"Half of the new trees will be for our Campus Harvest program, and will include fruit and nut trees that we can harvest for use in ASU campus kitchens, such as the new Engrained Café and the University Club. The other 50 trees will consist of rare and medicinal trees to round out our Arboretum collection and replace trees that we had lost, before the recent violent storm, like our old ginkgo and moonah trees.

"The rare and medicinal trees will fill in spots along the Maroon and Gold Arboretum trails on campus. (Go to [www.asu.edu/fm/arboretum.htm](http://www.asu.edu/fm/arboretum.htm) for a map). We would like a large grove planting of the fruit and nut trees. We're currently looking at the northeast side of the pedestrian bridge across University Drive and working on identifying

other sites hit by the storm."

The fruit and nut trees will include peach, nectarine, apricot, pineapple guava, avocado, lychee, loquat, pear, mango, fig, macadamia, almond, pistachio, pecan and black walnut.

Possibilities for the rare and medicinal trees include neem, American chestnut, paulownia, baobab, Japanese tree lilac, bristlecone pine, tea tree, yellow and pink shower trees, allspice, kola, quassia, sassafras, Mexican elderberry and kidneywood.

"Most of the trees will be bought locally from several different nurseries and the more rare ones will probably be on special order from out of state nurseries," Thirkhill says.

For the Nov. 7 event, ASU is required to recruit 30 students or other volunteers to assist with the planting, provide logistics such as tools and equipment, and provide after-care, water and mulch to the newly planted trees for a year.

Thirkhill says Arboretum officials also are applying for the Arbor Day Foundation's Tree Campus USA program.

"The Tree Campus USA program recognizes college and university campuses that effectively manage their campus trees, develop connectivity with the community beyond campus borders to foster healthy, urban forests, strive to engage their student population using service-learning opportunities centered on campus, and community forestry efforts," Thirkhill says. "We are in the process of inviting members of our faculty, staff, students and local community to participate in a Tree Campus informal committee. This group will meet quarterly to provide the Arboretum with valuable campus input as well as provide a forum for education and the development of connectivity to the community."

Smith, with Media Relations, can be reached at (480) 965-4821 or [jps@asu.edu](mailto:jps@asu.edu).

Camino food bank.

**"The Rat Pack – Live at the Sands,"** 7:30 p.m., ASU Gammage. The musical recreates a legendary evening at the Sands Hotel with the most famous performers of our time: Frank Sinatra, Sammy Davis Jr. and Dean Martin. Also at 7:30 p.m., Oct. 15-17; 2 and 7:30 p.m., Oct. 18; 2 and 7 p.m., Oct. 19.\*\*

### Wednesday, Oct. 15

**ASU Jazz Combos,** 7:30 p.m., Recital Hall.

### Thursday, Oct. 16

**"Big Band Blast Off!"** 7:30 p.m., Evelyn Smith Music Theatre. Performing: drummer Dom Moio, and the ASU Concert Jazz Band.\*

## Exhibitions

**Gallery 100**—1-5 p.m., Monday-Thursday; 1-3 p.m., Friday. Tempe Center, Suite 199. Information: (480) 965-2380.

Opens Oct. 6, Third Annual Intercollegiate Metals Exhibition. Opening reception: Oct. 6, 7-9 p.m.

**Harry Wood Gallery**—9 a.m.-5 p.m., Monday-Thursday; 9 a.m.-3 p.m., Friday, Art Building, first floor. Information: (480) 965-3468.

Through Oct. 3, MFA thesis exhibition in fibers by Nick DeFord.

Opens Oct. 6, MFA thesis exhibition in fibers by Sally Gilmore. Opening reception: Oct. 6, 7-9 p.m.

Opens Oct. 13, New graduates exhibition. Opening reception: Oct. 13, 7-9 p.m.

**Interdisciplinary Arts and Performance Gallery**—11 a.m.-2 p.m., Monday-Thursday, University Center Building, Room 228, ASU at the West campus. Information: (602) 543-ARTS. Tours: (602) 543-8152.

Through Oct. 17, "Twenty Irish Printmakers Respond to the Schwemberger Photographs." The Schwemberger photographs represent a collection of more than 100 compelling images of American Indian peoples, homes and landscapes dating back to 1902. The images were taken by Brother Simeon Schwemberger while he lived at St. Michaels Mission near Window Rock, Ariz., in the early 1900s.

**Step Gallery**—noon-5 p.m., Monday-Thursday; noon-3 p.m., Friday, Tempe Center, 10th Street and Mill Avenue. Information: (480) 965-3468.

Opens Oct. 6, "Trigger Items: illusions in discount shopping," by Karen Hernandez. Opening reception: Oct. 6, 7-9 p.m.

## Defenses

**Lifeng Hao,** PhD, Mat. Sci. Eng., 10 a.m., Oct. 6, PSB 234.

**Carole Rose McKenna,** Jus. Std., 8 a.m., Oct. 8, WILSN 255.

## Exemplars represent best, brightest across wide spectrum of disciplines

(Continued from page 1)

much at home in mathematics and econometrics as he is in biology and social science," says Sander van der Leeuw, director of the School of Human Evolution and Social Change. "He actively integrates elements of all these in his very original approach to modeling and understanding institutions.

"He is an excellent scientist, and he is committed to early participation of students in research. His students and colleagues enjoy his warm enthusiasm for his work and its challenges."

Robert is a bioethicist whose research interests are diverse, ranging from the philosophical aspects of developmental biology to the philosophy of psychiatry. He is especially interested in the ethical dimensions of individual and population health, and of novel biointerventions.

"Jason Robert has boundless energy, which is reflected in the incredible rate of scholarly productivity and the breadth of the teaching commitments he has taken on," says Robert Page, director of the School of Life Sciences. "In addition to teaching in our undergraduate programs in SoLS, he teaches medical ethics full time for the new medical school located in downtown Phoenix. He is truly an exemplar of energy, enthusiasm and accomplishment."

Jiang has performed as a soloist with symphony and chamber orchestras in Asia, Europe and North America, and has appeared in concert halls such as Carnegie Hall, Kennedy Center for the Performing Arts, La Salle Gaveau in Paris and the Cultural Centre Concert Hall in Hong Kong.

Jiang, a Chinese national violin competition prize winner, came to the United States as a young artist 21 years ago.

She is a devoted and accomplished teacher, having taught at Oberlin College Conservatory of Music, the University of Illinois at Urbana-Champaign and at conservatories throughout the world before joining ASU in 2003. Many of her former students have embarked on prestigious positions in symphony orchestras and have won top prizes. She won the Herberger School's Distinguished Teacher Award in 2005.

"Danwen Jiang is a world-class violinist, as shown by her many prestigious engagements worldwide," says Kimberly Marshall, director of the School of Music. "She is also a dedicated teacher, with abundant student successes testifying to her effectiveness as a pedagogue."

Bakkaloglu joined ASU in 2004 after nine years of advanced integrated circuit development at Texas Instruments Inc. Since then, he has built a cross-disciplinary, use-inspired microelectronic design program that has gained national attention. Two of his projects have been developing devices to track the impact on humans of long-term exposure to exhaust gases, and building very-low-power microphones for hearing aids that can track the direction of the sound source.

His research has been supported by the National Science Foundation, National Institutes of Health and Air Force Research Labs, as well as companies and consortia. The NSF-funded hearing aid project has the potential to help about 28 million Americans who suffer from a hearing impairment.

He currently mentors more than eight doctoral

students, four master's students and several undergraduates, and has developed or re-designed several classes.

"Professor Bakkaloglu has transferred his research successes to the classroom by providing ASU students with real-world problems as well as future applications," says Stephen Phillips, chair of electrical engineering. "He believes that the future of research and development in the area of solid-state circuits and systems depends on educating students with strong backgrounds in a broad spectrum of engineering and application areas. His research is collaborative across these areas."

Fewell's research on the evolution and organization of social behavior, particularly division of labor, also is collaborative. She has been involved in the creation and leadership of the new Center for Social Dynamics and Complexity at ASU. The center fosters interdisciplinary research on fundamental questions of social organization, from insects to humans, and it brings together faculty from many diverse fields.

"Jennifer Fewell is a model citizen, exciting researcher, and a dedicated teacher and mentor," says Page, life sciences director. "She co-directs the new center, runs the MARC program for minority student research, mentors several graduate students and undergraduate students in her lab, and is an excellent teacher, teaching a large enrollment introductory biology course.

"On top of that she has an exciting research program in social biology. Jennifer has been an exemplar of the dedicated faculty member for most of her career. It is fantastic that the time has come for her to get the recognition she deserves."

Since coming to ASU four years ago to join the Biodesign Institute and the chemistry and biochemistry department, Yan has made quite a mark. He was among the first scientists to see the potential of programming DNA to recognize chemical patterns and respond in a way that caused matter to self-organize at the nanometer scale. His work combines chemistry, biology, physics and material science.

"Professor Yan has produced a rapid and constant stream of innovative ideas and patents, an extreme rate of first-rate publications, impressive new approaches to teaching and training, and an astounding rate of winning research funding," says William Petuskey, chair of chemistry and biochemistry. "A large part of his success can be attributed to the rich intellectual and resource environment of the Biodesign Institute.

"The situation with Professor Yan is a wonderful example of the opportune convergence of scientific training, technological savvy, an acute appreciation of the research environment in which he found himself, and an intense drive to take advantage of all. To be sure, his work and example have influenced a significant sector of the ASU technological community."

These exemplary faculty members have received an extra salary increase in addition to the promotion adjustment. Their curriculum vitae and personal statements can be found on the Web at [http://provost.asu.edu/promotion\\_tenure/exemplars](http://provost.asu.edu/promotion_tenure/exemplars).

*Auffret, with Media Relations, can be reached at (480) 965-6991 or [sauffret@asu.edu](mailto:sauffret@asu.edu).*

## In BRIEF

### Wellness seminars set at Polytechnic campus

Speakers from the American Dietetic Association (ADA) and universities are presenting diet and healthy lifestyles information at ASU's Polytechnic campus Oct. 6.

ASU's Nutrition and Exercise and Wellness departments will offer opportunities to learn more about obesity, cultural health differences and translating health research to the real world, starting with Marty Yadrick, president of the ADA, from noon to 1 p.m. in the Student Union Cooley Ballroom C. He will discuss "Diversity and Cultural Proficiency: Front and Center."

Later in the afternoon, from 4 p.m. to 6 p.m., two speakers who are participating in the 2008 Obesity Society Conference in Phoenix will speak. Anne Wolf from the University of Virginia will present "Translational Research: Promoting Healthy Lifestyles in Real World Settings; the ICAN Project," and Paul McAuley from the Winston-Salem State University will present "The Obesity Paradox?" in the Exercise and Wellness Building, room 102.

The presentations are free and open to the public. For information, call Pamela Swan at (480) 727-1934 or Jeffrey Hampl at (480) 727-1718.

### ASU Athletics seeks halftime performers

Sun Devil Athletics is conducting a talent search.

On Oct. 8, ASU Athletics will hold an open audition seeking possible performers for halftime at athletic events, including men's and women's basketball, volleyball and gymnastics. Selected individuals or groups will have an opportunity to perform for three to five minutes, depending on the event.

All varieties of acts from the local and campus communities are welcome to try out, but officials are asking that performances not contain any singing or speaking elements. Past halftime shows have included break dancers, hip-hop dancers and martial arts demonstrations.

Every individual or group should plan on wearing any costumes at the tryouts used in the live performances. If the routine requires music, it should be brought along to the tryout in CD format, as a sound system will be provided. Acts must be family-friendly and should be in good taste; this includes the act itself and the attire worn during the performance.

All performance group members will receive complimentary admission to the event in which they are performing, and discounted tickets may be available for family and friends. All ticket offers are subject to availability.

The auditions will take place from 7 p.m. to 10 p.m., Oct. 8, at Wells Fargo Arena on ASU's Tempe campus.

For more information, or to reserve a time to audition, contact Drew Ossakow at [dossakow@asu.edu](mailto:dossakow@asu.edu) or (480) 727-0623. Reservations will be accepted on a first-come,

first-served basis until all spaces are full, or until noon, Oct. 8. Those who cannot attend the tryout, but still would like an opportunity to perform at an ASU event can contact Ossakow to submit a DVD or video tape of the act.

### ASU, Mayo schedule health discussion

ASU's Campus Health Service and the Mayo School of Continuing Medical Education Arizona will conduct a talk on office spirometry with pulmonary disease and critical care medicine specialist Alpa Shah at 8 a.m., Oct. 9.

The lecture will take place in the Pablo Building, room 105, on the Tempe Campus. To R.S.V.P., and for more information, call (480) 727-7990.

### Chicano/Latino association slates reception

The ASU Chicano/Latino Faculty & Staff Association (CLFSA) welcomes faculty and staff to its annual fall welcome reception at 5 p.m., Oct. 9, in ASU's Memorial Union Alumni Lounge (room 202) on the Tempe campus.

The association meets on the first Wednesday of each month, from noon to 1 p.m. at the MU, unless otherwise noted. These meetings typically feature a speaker(s) on current topics of interest to the membership, updates on special projects and operation of the association, and announcements by peers.

CLFSA membership is open to all faculty and staff at all ASU campuses. Membership dues are \$20 annually; however, a one-year complimentary CLFSA membership is being offered to faculty and staff who are new hires to ASU for the 2008-2009 academic year.

Four staff members have joined the leadership ranks of CLFSA. Presidential Professor of Practice in community development and civil rights Raul Yzaguirre and Mistalene Calleroz White, dean of student affairs for the Tempe campus, have been appointed as advisers. Anita Verdugo Tarango, outreach director in University Student Initiatives, was appointed as student relations liaison and Claudia Mendoza, strategic regional coordinator in undergraduate admissions, has been appointed development chair.

Founded in the fall of 1970, CLFSA's mission is to enhance the welfare of all residents of Arizona and to promote better education in, and advancement of, the Chicano/Latino community.

### Health Awareness Fair takes place Oct. 10

The Hispanic Heritage Committee on ASU's West campus is sponsoring a Health Awareness Fair from 11 a.m. to 6 p.m., Oct. 10, at the multipurpose field and basketball courts adjacent to the Sands Classroom Building.

Participating agencies include United Blood Services, American Cancer Society, Heart Association, the Donor Network of Arizona and the National Marrow Donor Program (bone marrow). The goal is to reach members of the community and students who are less likely to become a donor.

Agencies will be on site to take blood donations and conduct bone marrow donor screenings. Program and agency information will be available.

The Health Awareness Fair also is supported by the Black History Month committee, Native American Events Committee and the MLK Jr. Committee.

For more information, send an e-mail to [westevents@asu.edu](mailto:westevents@asu.edu) or call (602) 543-5306.

### Law alumni association schedules class

The annual DUI XXIII CLE will take place from 9 a.m. to 4 p.m., Oct. 10, in Armstrong Hall at the Sandra Day O'Connor College of Law on ASU's Tempe campus.

This continuing legal education class, sponsored by the College of Law Alumni Association, is held for attorneys and members of the local legal community who wish to keep their credit up to date. College alumni get a discounted rate, and law students are welcome to attend.

Proceeds go to the Alumni Scholarship Fund.

For more information, and to register, contact Amanda Breau at (480) 965-6405 or [amanda.breau@asu.edu](mailto:amanda.breau@asu.edu).

### Law Alumni Association golf tournament set

ASU's Karsten Golf Course, will be the site for the annual Law Alumni Association golf tournament Oct. 11.

Registration begins at 11:30 a.m., with shotgun start at 12:30 p.m. The evening social begins at 5:30 p.m. in the Karsten Golf Course Club House. Non-golfers are encouraged to attend the social event.

For more information, go online to [www.law.asu.edu/files/Administration/Development/Events/ASU-GolfandSpecialOuting.pdf](http://www.law.asu.edu/files/Administration/Development/Events/ASU-GolfandSpecialOuting.pdf), or call Scott Palumbo at (602) 265-5777 or Kelly Singer at (602) 528-4099.

### Presentation addresses Islamic topics

From 9 a.m. to 12:30 p.m., Oct. 12, world-renowned author Jeffery Lang will give a presentation on topics of Islam, atheism versus Islam, and more.

The lecture, titled "Topics in Islamic Thought," will take place in room 105 of Armstrong Hall at the Sandra Day O'Connor College of Law on ASU's Tempe campus.

This free event is sponsored by the Muslim Law Students' Association.

For more information, contact Zarinah Nadir at (480) 965-6340 or [zarinah.nadir@asu.edu](mailto:zarinah.nadir@asu.edu).

## Waiting on 'U': Proposition 200 turned Arizona State College into ASU

(Continued from page 1)

Now they were battling to change the initials of their school from ASC to ASU.

New head football coach Frank Kush crisscrossed the state, twisting arms to get people to vote for the name change once it was on the ballot.

"The fact that we were doing so well in football didn't hurt at all," says Don Dotts, who became editor of the alumni magazine in 1958.

The students fanned out to gather more than 63,000 names on petitions to have the name change – Arizona State College to Arizona State University – put on the ballot via Proposition 200.

Dotts, who graduated from ASU in 1957, recalled in a recent interview about the name-change campaign that the petitions were driven to the Arizona Capitol in an armored car, with guards escorting the vehicle.

ASC students meant business.

The school had an enrollment of 9,708 in fall semester 1958 – and, as Dotts notes, "you knew just about everyone in your class."

The times were different indeed. Elvis Presley was inducted into the Army, and in 1958 there were no tank tops, shorts or flip-flops seen on campus. The women students wore skirts, and blouses or sweaters.

Teased hair hadn't come into fashion yet, nor had spiked hair or tattoos for everyone. Vietnam was an unknown country.

### Exhibits document ASU's dramatic 1958 name change

By Judith Smith

Two exhibits at ASU document the story of how Arizona State College became Arizona State University after voters approved Proposition 200 on the November 1958 ballot.

The exhibits, which will be up through the end of this semester, are titled "ASU Celebrates 50th Anniversary!" – which is in the Hayden Library Rotunda – and "A University in Fact: The Great Name Change Campaign" in Luhrs Gallery on the fourth floor of Hayden Library on ASU's Tempe campus, and in the Hayden Library Rotunda.

The exhibits include newspaper pages with photos of the students delivering the petitions – with 63,956 signatures – to get the name-change proposition on the ballot, and a page from the *Arizona Republic* on Nov. 6, 1958, with a headline screaming that "It's University at Last."

There also are "then and now" photos showing football and basketball uniforms from 1958 and 2008, and golf attire from the two years.

And, there's a photo of a billboard proclaiming, "Vote 200 yes. ASU. Arizona State University. A new name. A true name."

The exhibit also includes a photo of a bold "anti-ASU" statement: "No 200" burned in the center of the field at Sun Devil Stadium.

All of the images, documents, artifacts and ephemera are drawn from the University Archives.

The exhibits are sponsored by the Department of Archives and Special Collections.

For more information, contact Karrie Porter Brace at (480) 965-4925 or karrie.porterbrace@asu.edu.

Smith, with Media Relations, can be reached at (480) 965-4821 or jps@asu.edu.

Grady Gammage celebrated his silver anniversary as president of ASU that year, and his namesake auditorium was still on the drawing boards. People could still drive in front of the Memorial Union, since Orange

Street had not yet been made into a mall.

That year, students attending summer classes feasted on watermelon and studied in Matthews Library.

The cross still was on top of Danforth Cha-

pel, and the course list included "Upholstery" and "Selection and Cullings of Poultry."

The men's basketball team wore short shorts, and ASC boasted a rodeo team.

Alpha Sigma Alpha sorority members made voodoo dolls to sell before the big game – ASC versus that "school down south."

The marching band played at Disneyland, and Sun Devil Stadium was nearly completed.

But the name-change battle overshadowed everything else that was going on in Tempe.

"We were the underdog in higher education in the state," Dotts says. "That sticks with you."

The proposition passed on Nov. 4, 1958. It was a glorious moment in Sun Devil history, a pinnacle that never has been reached again.

"We were so together," Dotts says.

This year is the celebration of the 50th anniversary of ASU. Homecoming will begin Nov. 7 with the royalty coronation, and will end Nov. 15 with the conclusion of the Sun Devils' football game versus Washington State University. During that week, there will be many events planned for students, faculty and community members. All the details can be found online at <http://homecoming.asu.edu>. Take the time to get involved with ASU history by being a part of The Maroon or "Golden" Anniversary.

Smith, with Media Relations, can be reached at (480) 965-4821 or jps@asu.edu.

## New bioengineering leader Ditto set to inject entrepreneurial spirit

(Continued from page 1)

research and to train our students to be the biotechnology leaders," Meldrum says.

Community support of biomedical research, along with the talent at ASU and many of the hospitals and health care institutions in the Phoenix area, excite Ditto about opportunities in Arizona.

"All of this provides a good environment for bioengineering endeavors to accomplish the kind of progress that is going to better the human condition," he says.

There are 16 full-time faculty in the Harrington Department of Bioengineering, and about 110 students in its graduate programs. About 425 undergraduates are majoring in bioengineering.

He plans to structure the department to maximize opportunities for faculty – and students – to become innovators and entrepreneurs, particularly in helping create a "bio-silicon valley" in the Phoenix area.

Ditto said he wants to take "a bold and inventive ap-

proach to educating future leaders in biotechnology," adding: "I hope many of our graduates will be taking their mastery of bioengineering into medicine, law, politics, government and many other endeavors."

Ditto's achievements have drawn recognition in a variety of technological areas.

Aspects of his work on control of chaotic behavior – an irregular but ubiquitous behavior in physical and biological systems ranging from cardiac arrhythmia to brain seizures – have been featured in magazines and newspapers such as *Science News*, *Time*, *Discover*, *Scientific American*, *Nature*, *Science*, the *New York Times* and the *Washington Post*.

His work on control of cardiac and neural chaos has gained international attention and led to several patents for control of cardiac chaos and neural chaos.

He has been a semifinalist in *Discovery* magazine's Awards for Technical Innovation, and he was named one of the top 50 research and development stars of 1995 by the publication *Industry Week*.

Results of his research and development efforts in com-

puter science and engineering earned accolades from *PC Magazine* as one of the "10 coolest technologies," and were featured in the international magazine the *Economist* and the *MIT Technology Review*, among others.

His work also includes the development of therapies and devices for the control of epilepsy and the imaging of cardiac arrhythmia.

Recently, his contributions were recognized when he was named a fellow of the American Physical Society, and the American Institute of Medical and Biological Engineering.

Earlier in his career, he was named Outstanding Young Professional of the Year by the Naval Surface Warfare Center, and he later received an Office of Naval Research Young Investigator Award.

Ditto earned his bachelor's degree in physics from the University of California-Los Angeles and his doctorate in physics from Clemson University.

Kullman, with the Ira A. Fulton School of Engineering, can be reached at (480) 965-8122 or joe.kullman@asu.edu.

## Research expenditures in fiscal year 2008 show continuing growth at ASU

(Continued from page 1)

ment, industry and other private sources; \$34.4 million in state funds (including technology and research initiative funds from state sales tax revenue); \$6.4 million from the ASU Foundation specifically for research projects; \$2.8 million from foreign sources; and nearly \$1.7 million from local governments.

ASU, a Research I university, has targeted several areas for growth in its research enterprise, Goodnick says. These include alternative energy and biosciences research. ASU draws on the interdisciplinary nature of its research teams to tackle challenging

societal problems.

"Our biggest growth was in funds from the National Institutes of Health," Goodnick says. "This is attributable, in part, to our large investment in biosciences over the past five years."

"We've also had continued growth in Department of Defense funding, primarily due to the Flexible Display Center and its groundbreaking work in information delivery. We have had an increase in NASA funding, due in part to Mark Robinson and his work with the lunar reconnaissance mission, and we have experienced growth in alternative energy funding, like the 'tubes in the desert' project funded by the

Science Foundation of Arizona and British Petroleum."

In total, federal agencies that have provided the most to ASU include the NIH with more than \$40.5 million, followed by the National Science Foundation (\$39.2 million), NASA (\$15.8 million), the Army (\$14.5 million) and the Department of Education (\$14.2 million).

ASU projects that brought in the most funds were the Flexible Display Center (\$9.4 million), the Microscale Life Sciences Center (\$7.5 million), the Lunar Reconnaissance Orbiter Camera (\$5.3 million) and a project on alternative energy that focuses on development of cyanobacteria for

generating solar-powered, carbon-neutral biodeisel fuels (\$4.7 million).

While ASU's growth in a down year was good, Goodnick sees the future as being even brighter. He says the number of awards made to ASU during fiscal year 2008 (which generally will be counted as expenditures in fiscal year 2009) are up significantly.

"We have more than \$272 million in awards this year, so we expect expenditures next year will grow accordingly," Goodnick says. "This increase in awards is in line with our growth projections for ASU research."

Derra, with Media Relations, can be reached at (480) 965-4823 or skip.derra@asu.edu.

## EMPLOYMENT

The following positions are available as of Oct. 3 and are subject to change. All positions will be advertised in *Insight* only once. The staff requisition or job order number for each position is indicated by the (#) sign. ASU is an equal opportunity-affirmative action employer.

### ASU POSITIONS

A complete job announcement for classified, administrative and service professional positions at the Downtown Phoenix, Polytechnic, Tempe and West campuses is available on the Human Resources Web page at [www.asu.edu/asujobs](http://www.asu.edu/asujobs), or the Telecommunication Device for the Deaf at (480) 965-3002.

For complete position descriptions and application requirements for academic positions, contact the appropriate department listed below. Faculty, academic professional and graduate assistant positions are also listed on the Human Resources Web sites and details must be obtained from the hiring department. Application deadlines are listed.

Dates listed are application deadlines, and application material is due by 11:59 p.m. on that date. Positions are 100 percent, full-time employment (FTE) unless otherwise noted. Code below is: (O) – position is open to the public.

### STAFF POSITIONS

#### TEMPE CAMPUS

##### Professional

Academic Success Specialist (O) #21139 – The College Liberal Arts and Sciences (Oct. 15).

Accounting Specialist (O) #21130 – W.P. Carey School of Business/MBA Programs (Oct. 8).

Assistant to the Director (O) #21137 – W.P. Carey School of Business (Oct. 8).

Development Officer (O) #20950 – College of Liberal Arts and Sciences – Advancement (Oct. 15; if not filled, then every week thereafter until search is closed).

Development Officer Senior (O) #21067 – College of Liberal Arts and Sciences-Advancement (Oct. 15; if not filled, then every week thereafter until search is closed).

Disability Access Consultant (O) #21180 – VP University Student Initiatives (Oct. 8).

Corporate Liaison-SkySong (O) #21151 – VP-Research and Economic Affairs (Oct. 24).

Crime Analyst (O) #21161 – VP University Administration (Oct. 13).

Physician (O) #21023 – Campus Health Service (Oct. 8).

Program Coordinator (O) #21054 – Office of the Senior Vice President for Academic Affairs (Oct. 8).

Program Coordinator-Marketing (O) #20920 – Undergraduate Admissions-Marketing (Oct. 15).

Technology Support Analyst Associate (O) #21103 – Polytechnic Campus (Oct. 8).

#### Service/field craft/maintenance

General Maintenance Mechanic-Maintenance & Repair Team 2nd Shift (Facilities Management) (O) #21168 – University Services (Oct. 15).

Mechanical Designer (Capital Programs Management Group) (O) #20954 – University Services (Oct. 15).

Stationary Engineer Senior (Central Plant) (O) #20967 – University Services (Oct. 8).

### DOWNTOWN PHOENIX CAMPUS

#### Professional

Academic Success Specialist (O) #21160 – College Public Programs (Oct. 17).

Accountant Senior (O) #21140 – College of Nursing and Healthcare Innovation (Oct. 8).

Coordinator Senior (O) #20954 – University College (Oct. 13).

### ACADEMIC POSITIONS

#### TEMPE CAMPUS

Assistant/Associate Professor #9230 – Liberal Arts and Sciences – Physics (Nov. 11; if not filled, then every two weeks thereafter until search is closed).

### POLYTECHNIC CAMPUS

Assistant Professor #9197 – School of Educational Innovation and Teacher Preparation (Oct. 15; if not filled, then every two weeks thereafter until search is closed).

## Assistant professor Anderson explores 'Clarity of God's Existence'

By Steve Des Georges

Timing is everything.

In his most recent book, "The Clarity of God's Existence: The Ethics of Belief After the Enlightenment," Owen Anderson joins a debate that is gathering momentum and earning much attention.

Authors Richard Dawkins, Sam Harris and Christopher Hitchens are intellectuals who have challenged the validity of belief in God while seeing their books included among this country's best-selling.

In his new release, Anderson, an assistant professor of philosophy of religion in ASU's New College of Interdisciplinary Arts and Sciences, offers an explanation as to why traditional proofs of the existence of God have failed, but also suggests why this issue is so important for religions like Christianity. If humans are guilty for failing to know God, as Christianity maintains, then they must be able to know God. Guilt means that one has no excuse, and yet many people argue that there are rational reasons for not believing in God – there are excuses.

To show that there is no excuse would be to show that it is clear that God exists. To understand these excuses, he lays out the traditional arguments for the existence of God and why they are insufficient: the cosmological argument that the universe must have had a first cause, and this first cause is God; and the teleological argument that the universe displays signs of design, so it must have had a designer – and this designer is God.

Anderson traces the history of challenges to these theistic proofs, including those of such Enlightenment thinkers as David Hume and Immanuel Kant.

"What those who are challenging the validity of belief in God are saying, in essence, is that, in the modern world, belief in God is unethical and tantamount to superstition, and that there is no excuse for continuing to believe in God," says Anderson, who holds five degrees: bachelor's degrees in philosophy and in history, master's degrees in philosophy and in religious studies, and a doctorate in philosophy. "My book looks at why rational support is so important if unbelief is what is inexcusable, and why the traditional arguments for God's existence have not been successful. It considers the objections from thinkers like Hume, who was an arch-skeptic of the Enlightenment who challenged the ability of reason itself to know God, and how his challenges have not been addressed.

"What has been the tendency is to simply repeat the traditional



In his most recent book, "The Clarity of God's Existence: The Ethics of Belief After the Enlightenment," ASU assistant professor Owen Anderson offers an explanation as to why traditional proofs of the existence of God have failed – but he also suggests why this issue is so important for religions like Christianity.

arguments, which is not the same as actually responding to the challenge."

Anderson says there must be clarity in the traditional proofs of God's existence if Christianity is to continue the claim that unbelief is a sin. Anderson introduces the principal of clarity, which says that if the failure to believe something results in maximum responsibility (as in the case of eternal separation from God), then it must be maximally knowable. This would require that all alternatives to belief are rationally impossible, so that there is no excuse for believing them.

In fact, the final chapter is devoted to a surface exploration of what must be done, in Anderson's opinion, to show that it is clear that God exists.

He is no stranger to the debate. His first book, "Benjamin B. Warfield and Right Reason," was reprinted this year as "Reason and Worldviews" and is a study of Princeton theologian Warfield's view of the role of reason in religious belief. The title explores the development of Princeton Theological Seminary, Warfield's debate with Dutch politician and theologian Abraham Kuyper over the need for apologetics, and the way in which Christian

philosopher Cornelius Van Til attempted to adopt the best from both of them.

In "Clarity," Anderson believes the timing is right and the audience widespread.

"The audience for this is anyone who is interested in questions about religious belief in the modern world," says the writer, who has received a grant from the Harvard Pluralism Project to study the religious diversity of the greater Phoenix metropolitan area. "Are writers such as Harris, Dawkins and Hitchens correct in challenging the validity of one's belief in God? Do they successfully show that there is an excuse for unbelief, or even that there is no excuse for belief? My book looks at the many ways the need for clarity has been avoided, and how excuses have built up. I then suggest ways this might be addressed. For this reason, it should be of interest to both the believer and the non-believer."

The foreword to Anderson's book is written by Stephen H. Webb, a professor of religion and philosophy at Wabash College. A theologian and philosopher of religion, Webb says of the book: "This is an exciting book that advances the status of apologetics by analyzing and probing some fundamental issues in contemporary philosophy and theology. It is also a nice combination of historical criticism and contemporary analysis. ... Owen is able to pull this off due to the elegance and simplicity of his focus."

The book, published by Wipf & Stock Publishers ([www.wipfandstock.com](http://www.wipfandstock.com)), is available in paperback.

Anderson is a regular contributor to *Reviews in Religion and Theology*, and has published scholarly articles on the ethics of belief, religious pluralism and contemporary natural law theory. His research areas include the religious belief, world religions and common ground, as well as the problem of evil.

In addition to his work on an upcoming book that further explores the subject of clarity, Anderson is organizing a night of debate and discussion about religious diversity and its challenges. "Religious Diversity and Public Discourse" will feature presentations by scholars from the disciplines of philosophy, history and religious studies. It is scheduled to take place from 6:30 p.m. to 9 p.m., Nov. 13, in La Sala on ASU's West campus. More information is available by contacting Anderson at (602) 543-6027 or [oanderson@asu.edu](mailto:oanderson@asu.edu).

Des Georges, with *Public Affairs at the West campus*, can be reached at (602) 543-5220 or [stephen.desgeorges@asu.edu](mailto:stephen.desgeorges@asu.edu).

## Center merges creative mediums, research to narrate Hispanic culture in United States

By Erica Velasco

For more than 80 years, one Hispanic fictional character has sparked films and television shows, playing an intricate role in influencing mainstream American culture with Hispanic culture.

That character – the Cisco Kid – first appeared in the 1907 short story "The Caballero's Way" by American writer O. Henry.

Originally, the character was not portrayed Mexican, but a murderous Anglo, possibly modeled after Billy the Kid.

In the new book "The Cisco Kid: American Hero, Hispanic Roots," co-authors Gary D. Keller and Francis M. Nevins explore how the Cisco Kid, through American film and television, emerges with a new persona, what Keller refers to as a "noble bandit."

Keller, director of ASU's Hispanic Research Center, says a noble bandit is a robber and outlaw elevated to the status of avenger and champion of social justice.

The book trails the history of the Cisco Kid from his initial creation outside the Hispanic world to his Hollywood interpretation as a Latino persona. Keller and Nevins show how mainstream American culture and the Hispanic community took this character and made it into a cultural phenomenon.

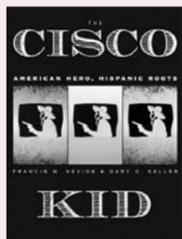
"This notion is continually exemplified through the Cisco Kid films – and, more recently, with the movie 'The Cisco Kid,' made in 1994 by Luis Valdez," Keller says. "It starred Jimmy Smits and Cheech Marin, and made the Cisco Kid into a proto-Chicano."

The first sound film featuring the Cisco Kid in 1929, titled "In Old Arizona," also was the first time "Spanglish" was used in a movie, further cementing the character in Hispanic culture.

"The transformation of the original Cisco Kid character into the hero of movies and television was very radical," writes Nevins, a professor at St. Louis University School of Law, in the book's introduction. "The Cisco Kid showed up in movies and television for more than 80 years, from 1914 to 1994, and was played by either seven or eight actors."

This is one of about 10 books that will be published this year by the Bilingual Press at ASU. As the largest Hispanic-focused publisher and distributor in the country, the Bilingual Press was founded in 1973 at the City College of New York and moved to ASU in 1985. Its strength lies in publishing dynamic art books, poetry and literature by or about Hispanics in the United States.

The press publishes established and emerging writers, with more than 150 titles in its backlist. It publishes books in English, Spanish and bilingual format. With a grant from the National Endowment for the Arts, it distributes more than 1,000 titles by other presses in the United States and is the exclusive distributor of books by Latin-American Literary Review Press.



"We assist in the creation and appreciation of Hispanic art and the economic, cultural and educational development of Hispanic communities across the country," says Keller, who also is publisher of the Bilingual Press.

One of the most ambitious and elaborate works produced by the press is "Triumph of our Communities: Four Decades of Mexican-American Art," a full-color coffee table book that lavishly displays Mexican-American artwork.

The book celebrates the art organizations that have promoted Mexican-American art and have served as art education centers for their communities. The fourth volume in the Bilingual Press's art book series was released in 2005 and showcases 600 powerful and dynamic images by more than 100 established and emerging Mexican-American artists.

"What I love about this book is that it was done by collaborating with art organizations in the United States and Mexico," Keller says. "We have art organizations from the East Coast to California. It was a true collaborative effort."

Keller also directs the Hispanic Research Center, which makes Hispanic scholarly research, student enrichment and interactive online Web sites available to faculty members and the public. The center has been a part of ASU's College of Liberal Arts and Sciences for more than 20 years, and it informs the public about the Hispanic life experience in America.

The Hispanic Research Center's dedication to scholarly research and Hispanic art will be displayed beginning later this fall at the exhibition "Bold Caballeros y Noble Bandidas" at the Autry National Center of the American West in Los Angeles. The exhibition, which runs from Nov. 1 through May 10, will explore Mexican popular culture inspired by the Mexican Revolution of 1910. The exhibition uses art, rare historical footage, feature film and popular culture to experience and understand the cultural changes in the Americas initiated by the Mexican Revolution of 1910.

The exhibition will explore the creation of a U.S. and Mexico borderland, women revolutionaries and their subsequent emancipation, fiction films and their political overtones, and historical footage never seen by the public.

From publishing dynamic art books capturing the spirit of Hispanic culture to evaluating a fictional character's impact on society, the press narrates the Hispanic culture in a majestic way, connecting various mediums to paint a historical picture.

"If you go for something and commit to it for decades, then you can accomplish great things," Keller says. "If you do something for three years, even if it's a great three years, it just vanishes. Our philosophy is not that."

Velasco, with the *College of Liberal Arts and Sciences*, can be reached at (480) 965-1156 or [erica.velasco@asu.edu](mailto:erica.velasco@asu.edu).

## Leadership lecture focuses on work force

By Chakris Kussalanant

Work force development, income mobility, migration and education will be the focus of this year's César E. Chávez Leadership Lecture.

The event will take place at 7:30 a.m., Oct. 7, at the Ritz-Carlton, 2401 E. Camelback, Phoenix. Doors will open by 7 a.m.

The keynote address will be presented by Roberto Suro, founder and former director of the Pew Hispanic Research Center. Suro has more than 35 years experience in the immigration field as a journalist, author and researcher. He is a professor at the University of Southern California's Annenberg School of Journalism.

As an introduction to Suro's remarks, the Morrison Institute of Public Policy will unveil "Arizona Work Force: Latinos, Youth and the Future" and present the latest data, analysis and insight about Arizona's workers and their future.

The lecture is an outgrowth of the annual César E. Chavez Memorial Breakfast.

According to Nancy Jordan, associate vice president of community development, the program seeks to become a more research-oriented event that can help the Arizona business community gain a better understanding of economic trends and labor-related issues.

"We want to promote a greater understanding of the linkages among our state's economy, its work force and the education of its citizens," Jordan says. "The lecture is an annual event seeking to inspire continued dialogue among local community leaders focused on the importance of higher education and its impact on sustaining economic prosperity."

The lecture has attracted a number of corporate sponsors and supporters, including the Helios Education Foundation, SCF Arizona, the *Arizona Republic*, Greater Phoenix Leadership and the Arizona Hispanic Chamber of Commerce. The lecture is conducted by the ASU Office of Public Affairs, Community Development.

Proceeds benefit the ASU César E. Chávez Leadership programs. For more information, call (480) 965-1592.

Kussalanant, with *Media Relations*, can be reached at (480) 727-9181 or [chakris.kussalanant@asu.edu](mailto:chakris.kussalanant@asu.edu).