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## Special section

The demands of a 21st century knowledge economy necessitate America's citizenry to be highly educated in the science, technology, engineering and mathematic (STEM) fields. ASU has placed STEM education high on its priority list as the university works to improve K-12 math and science education, train educators in the STEM fields, and build a pipeline of students prepared to enter the university and graduate with STEM degrees. From freshman math to research opportunities, ASU is bolstering its opportunities for college students and K-12 students to pursue an education – and a career – in what remain to be the most critical components of a competitive knowledge economy.



ROXANNE MAY PHOTO

## Crow earns honors

ASU's mascot, Sparky, congratulates ASU President Michael Crow on his receipt of the Anti-Defamation League's Jerry J. Wisotsky Torch of Liberty Award. The award was presented Oct. 23 to Crow for his work in promoting equal opportunity and bringing together people of all races, religions and ethnic backgrounds.

## Academic Bowl

In four hard-fought contests Oct. 22, the teams from the Mary Lou Fulton College of Education, the College of Liberal Arts and Sciences, the Herberger College of the Arts and the Morrison School of Management & Agribusiness advanced to the semifinals of this year's Academic Bowl at ASU.

One of the semifinal rounds will pit the College of Education against the College of Liberal Arts and Sciences, while the other contest features the Morrison School of Management & Agribusiness versus the Herberger College of the Arts.

The four surviving teams are competing for a chance at \$4,500 in scholarship funds.

The semifinal and final rounds will take place beginning at 7 p.m., Oct. 30, at the Eight/KAET-TV studio, and they will be televised by Eight.

For more details, visit the Web site [www.asu.edu/academicbowl](http://www.asu.edu/academicbowl).

## Project looks at urban dwellers' vulnerability to heat

By Jody Guyot  
and Rebecca Howe

Sophisticated climate and environmental data will be combined with social science knowledge by a team of ASU researchers investigating human vulnerability to deadly heat exposure.

With the mounting effects of climate change and half the world's population now living in urban areas – one-third of the people in slums – the potential for the increasing frequency and severity of heat waves is cause for grave concern, says Sharon Har-

lan, an associate professor of sociology in ASU's School of Human Evolution and Social Change in the College of Liberal Arts and Sciences.

"People in cities are in double jeopardy due to urban heat islands and global climate change – factors that are increasing and intensifying as they interact," she says.

Exposure to extreme heat events could lead to even larger disasters than some that have been seen in the recent past, such as the heat wave that took as many as 50,000 lives in Europe in 2003.

Harlan will lead researchers in seeking answers to guide policy-makers and planners in bolstering protective measures to prevent heat-related illness and deaths. The collaborative project, partnering ASU and the University of California-Riverside, is supported by a recently awarded \$1.4 million grant from the National Science Foundation.

The teams will examine how global environmental change combines with local conditions to affect human vulnerability to climate change.

## Studying a desert metropolis

Metropolitan Phoenix is the ideal living laboratory for the project. It is heavily populated, hot and arid – like many places around the world experiencing rapid urbanization and limited water supplies.

Over the past 50 years, the Valley's summer minimum temperatures have increased by an average of more than 10 degrees Fahrenheit from the urban heat island effect, while the number of daytime hours with temperatures exceeding 100

(See PROJECT on page 7)

Remember shoulder pads in women's outfits from the 1990s? This picture is from the 1992 *Saguaro* yearbook. The caption reads: "Parading on the field during halftime, Heather Collins and Tony Mena are presented to the crowd at the Homecoming game." They were the 1991 royalty at ASU.



## Glory days: Football legends recall early times in Sun Devil Stadium

By Sarah Auffret

In 50 years of Sun Devil football, the most familiar name may be that of Frank Kush, the legendary ASU head coach who in 22 years at the helm of the program had 19 winning seasons. His teams won nine conference championships and ran up a 6-1 bowl record.

Kush and his toughness were synonymous with the program, and the field at Sun Devil Stadium is named after him.

He will appear at this year's Homecoming Football Luncheon Nov. 14, along with celebrated former players Danny White and Ron Pritchard, and other great athletes from the reunion classes. The "Legends" luncheon will take place from 11:30 a.m. to 1 p.m. in the Carson Ballroom of Old Main on ASU's Tempe campus.

White was a quarterback for ASU from 1971 to 1973 before having a storied career with the



Dallas Cowboys. Pritchard was an All-American linebacker for ASU in the late 1960s, spending nine years in the NFL before a career-ending knee injury.

Kush is one of the few individuals whose career at ASU dates back to 50 years ago, when a ballot initiative succeeded in getting the name changed from Arizona State College to Arizona State University. He was hired in 1955 as an assistant

(See GLORY on page 6)

## ASU conducts clinical trials on device to aid stroke survivors

By Skip Derra

The road of recovery from a stroke is long, arduous and full of challenges for many people. In the United States alone, some 590,000 people annually survive a stroke – and already there are 4.8 million stroke survivors in this country.

One of the main challenges for survivors is to get the body back to performing the way it did before the stroke. Rehabilitative efforts play a key role in recovery, but often those efforts require many hours of work and involve several people in addition to the patient.

Clinical trials of a new device at ASU's Downtown Phoenix campus could help stroke survivors gain back some independence – and a bit of their self-esteem – along the way.

The clinical trial is being conducted on the "Hand Mentor," a device invented by Tempe-based Kinetic Muscles Inc. It's being tested at a new center in ASU's College of Nursing & Healthcare Innovation.

The trials will run through the middle of 2009.

The purpose of the study is to evaluate the effectiveness of the Hand Mentor when used in conjunction with regular therapist visits and at-home physical therapy.

Linda Mottle, director of ASU's Center for Healthcare Innovation & Clinical Trials, says a key challenge within the medical technology industry is that many new technologies, such as the Hand Mentor, do not result in obvious gains in mortality or morbidity. That makes it important to demonstrate improvements in quality of life and economic benefits of any new invention or drug.

It also is important to do so in community set-

(See CLINICAL on page 7)

## Study of sick flies sheds light on human immunity

By Rick Overson

A salmonella infection is not a positive experience.

However, by infecting the common laboratory fruit fly *Drosophila melanogaster* with a salmonella strain known for causing humans intestinal grief, researchers in ASU's School of Life Sciences have shed light on some key cell regulatory processes – with broad implications for understanding embryonic development, immune function and congenital diseases in humans.

Associate professor Stuart Newfeld and laboratory coordinator Joel

Frandsen, along with colleagues in the College of Liberal Arts and Sciences, and the Bidesign Institute at ASU, released their findings online Sept. 24 in the journal *Proceedings of the National Academy of Sciences*.

Strong parallels exist in the regulation of immune system function in animals as diverse as flies, mice, and humans. Newfeld's own investigative connection between fly and human immune systems came about through his research with a well-studied family of proteins called bone morphogenetic proteins (BMP).

"Bones and flies?" one might ask.

These proteins are named because of their involvement in the formation of bone and cartilage in humans; however, they also have been linked to many other aspects of early development and to essential cellular processes in virtually all animals.

One type of morphogenetic protein, intensively studied in fruit flies and the focus of the published study by the Newfeld group, is the growth factor Decapentaplegic (Dpp). Dpp acts as a hormonal signaling device, binding to cells and communicating, for instance, whether to divide or to stop growing – or even to

become a different type of cell.

Studies have shown that Dpp in the fruit fly and its counterparts in other animals have diverged little from one another in evolutionary time. Although there are tiny changes in the genes that code for this protein from animal to animal, the morphogenetic proteins are still structurally and functionally very similar – a testament to their crucial role as signaling devices in all animals, including humans.

"Dpp from flies has been shown to be completely functional in

(See RESEARCHERS' on page 7)

## Harrison earns education award

By Marshall Terrill

Mernoy Harrison, ASU's executive vice president and vice provost, recently earned the 2008 Ronald McDonald House Charities (RMHC) "Excellence In Education" Award. Harrison was presented the award Oct. 14 at the RMHC U.S. Scholarship Breakfast, which took place at the Camelback Inn in Scottsdale. The event raised more than \$250,000 to help Arizona high school students attend college, making it the largest fundraising program of its kind in the state.

Ronald McDonald House Charities presents the award each year to college educators who have exemplary commitment to education, innovation and leadership in the community.

"This collegiate administrator has demonstrated exceptional performance toward improving the quality of teaching and learning for students," says Nancy Roach, executive director of the Phoenix Ronald McDonald House. "He is truly an outstanding educator whose distinguished leadership is influencing our Arizona youth."

Harrison oversaw the creation of the ASU's Downtown Phoenix campus, construction of the new Walter Cronkite School of Journalism and Mass Communication building, and Taylor Place, the university's premier residential community. The urban campus has dramatically contributed to the revitalization of downtown Phoenix.

Harrison currently oversees the building of ASU's "fifth campus," ASU Online and Extended Campus, comprised of online programs and continuing education programs, including face-to-face programs for the valley's nontraditional students.

The RMHC U.S. Scholarship Program offers scholarships to Arizona high school students from communities who face limited access to educational and career opportunities. Since its inception, the program has awarded more than 1,000 scholarships to students.

The RMHC U.S. Scholarship Program is supported through the efforts of Arizona businesses and community organizations, neighborhood McDonald's owner-operators and suppliers, local and national Ronald McDonald House Charities, and the McDonald's Corp.

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Mernoy Harrison

## Physicist brings 'mind-sizzling' lecture to ASU

By Ashley Lange

Impossibilities never stay that way for long in the face of science. For Michio Kaku, renowned theoretical physicist and author, there is no question that humanity will one day be able to overcome the barriers of time and space the way it conquered other "impossibilities."

Kaku will discuss the turning point from fantasy to reality in the annual "Sci-fi Meets Sci-fact" lecture presented by BEYOND, the Center for Fundamental Concepts in Science at ASU. To add to the fun, an illusionist will open the evening lecture. This year's event is slated for 7:30 p.m., Nov. 13, at the Sandra Day O'Connor College of Law auditorium on the ASU Tempe campus.

The lecture is free and open to the public, and seating is first-come, first-served. Computer Aided Real-time Translation (CART) services will be provided.

"Michio Kaku is a true star," says Paul Davies, ASU professor and founding director of BEYOND. "He brings science alive with style and panache, and conveys breathtaking concepts with ease and simplicity. His performances are guaranteed to be mind-sizzling."

According to Davies, the lecture series is built around the question, "Can it really be done?"

Kaku's two primary fields of study are trying to complete Einstein's dream

for a "theory of everything" and predicting trends for the future of science.

He is the Henry Semat Chair in Theoretical Physics at the City University of New York, and has been a professor there for more than 30 years. Kaku received his doctorate in physics at the University of California-Berkeley in 1972, and he also has taught at Harvard University and Princeton University.

Kaku is the author of a number of international best-sellers, including "Hyperspace" and "Visions: How Science Will Revolutionize the 21st Century." His most recent book, "Physics of the Impossible," was on the New York Times' best-seller list for five weeks this past spring.

His book "Parallel Worlds," about the latest in cosmology, was a finalist for the prestigious Samuel Johnson Prize for Non-Fiction in the United Kingdom, and also a finalist for the Aventis science book award.

Kaku has appeared on a number of radio and TV programs, including "Larry King Live," "60 Minutes" and the BBC's "Future." He also conducts his own national weekly radio program, "Science Fantastic," which airs in 130 cities in the United States.

His Web site – <http://mkaku.org/> – reportedly registered more than 110 million page hits in the past four years.

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### Mary Lou Fulton College of Education

## Wodrich takes Warner Professorship post

By Joan M. Sherwood

ASU's Mary Lou Fulton College of Education has appointed David Wodrich the Mary Emily Warner Professorship in Psychology in Education.

Wodrich, who assumed his duties this fall, is the first to serve in the position.

The Warner Professorship was created for a scholar whose research and contributions to the field of education have received high national and international recognition and are aligned with the strategic vision, mission and goals of the Fulton College.

Wodrich was a practicing psychologist at Phoenix Children's Hospital before joining the Fulton College in 2002 as an associate professor within the Division of Psychology in Education. A seminal research study conducted by Wodrich and his colleagues linked improvements in attention span and academic performance in diabetic children when their blood sugar levels are consistently stabilized.

His team's findings were released in February 2006. The findings were published in the Journal of Pediatrics, and reported nationally and internationally by ABC News and Reuters Health.

In the study, Wodrich and his team observed four boys with Type 1 diabetes for 10 days while they were in the classroom to assess their attentiveness. Afterward, the children were fitted with an insulin pump, which kept their blood sugar levels on an even keel. They were then observed again for 10 days.

The ASU researchers then found that all of the boys showed improvements in behavior while they were performing learning tasks and when they were off-task. Improvements in the two categories of behavior averaged 20 percent and 34 percent, respectively.

Additional studies conducted collaboratively and on a larger scale by ASU and Phoenix Chil-

dren's Hospital are providing further evidence for the role of blood sugar stability in classroom success.

"My greatest impetus in following this line of research is the obvious distress felt by many affected students and their families," says Wodrich, who recently was named a fellow of the American Psychological Association, Division 16. "Teachers are often challenged as well, but their professional training and their role as educators, not family members, helps to mitigate their feelings."

Related research conducted by his team demonstrated that teachers who are better informed about the classroom expression of particular problems, such as diabetes or epilepsy, do a better job of understanding students' actions and figuring out how to make accommodations to help them succeed.

"This information may reduce the turmoil experienced by students with health problems," Wodrich says. "We've also learned that research conducted outside of schools – without classroom or teacher-generated data – may not be completely applicable to children in their schools. Truly helpful information for teachers, therefore, appears to depend on studies that are fully embedded in school settings. This is the current focus of our research."

"David Wodrich is truly one of ASU's top faculty members, and the distinguished Mary Emily Warner Professorship is a very deserving recognition of his important scholarly work and productivity," says George Hynd, senior vice provost for education and innovation and dean of the Fulton College. "His research efforts

continue to advance the field of school psychology, and his creative and collaborative efforts to prepare the next generation of practitioners and scholars, have touched the lives of thousands of children and families."

With family members as both educators and health care providers, Wodrich says a career focused on psychology in school settings seemed like a natural choice for him.

"As an undergraduate, several of my best professors were trained as school psychologists," he says.

Wodrich spent a year working in a private school for children with special needs before starting graduate school. He says this experience solidified his interests in psychological work with children in schools.

"When I first worked in public schools, I could easily recognize the association between health and classroom problems," Wodrich says. "This was especially obvious among students who returned to school without yet feeling well, and in those who had missed many days of classes. Although considerable research has helped us understand the social and developmental risks associated with childhood illness, surprisingly little work has been conducted regarding the actual classroom impact of illness."

While employed in a pediatric setting, Wodrich guided efforts to help students return to school after an illness. With ready access to pediatrician collaborators and their patients at Phoenix Children's Hospital, where he was chair of psychology, Wodrich was able to collect educational and classroom data to help better understand these students' needs.

"A group of outstanding ASU doctoral students with similar interests has resulted in a growing body of research," he says.

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David Wodrich

## Human rights seminars focus on African issues

By Matt Crum

Two upcoming seminars at ASU's West campus will focus on issues critical to Africa.

Both events feature prominent attorneys who are directly involved with advancing human rights in Africa in innovative ways.

One speaker will argue that countries have a legal obligation to provide food for the poor and marginalized. The other has recently filed a legal petition against his native country of Eritrea for widespread human rights abuses.

"The Right to Food in South Africa: Giving Substance to Socio-economic Rights" will be addressed from noon to 1:30 p.m., Nov. 3, in the University Center Building, La Sala C. The speaker is Dave Holness, director of the Campus Law Clinic at the University of KwaZulu-Natal in Durban, South Africa.

Holness is an admitted attorney of the High Court of South Africa, focusing on public interest litigation and legal awareness. He has traveled throughout South Africa's rural Eastern Cape province, assisting community-based paralegal offices in meeting the needs of indigent clients. His writings address the realization of socio-economic rights, with a focus on the constitutional right to food.

"The Human Rights Situation in Eritrea: The Promise Betrayed" is the subject of a seminar from noon to 1:30 p.m., Nov. 10, in room 180 of the CLCC Building. Eritrean human rights activist Simon Weldehaimanot is the speaker.

Weldehaimanot received the TMF human rights fellowship at

Columbia University. He has worked as a legal officer for the Institute for Human Rights and Development in Africa (in Banjul, Gambia) and for the International Centre for Transitional Justice (in New York). Weldehaimanot has filed a complaint against the government of Eritrea before the African Commission on Human and Peoples' Rights.

Both events, on ASU's West, are free and open to the public. (There is a fee for visitor parking on campus.)

The seminars are presented by the Master of Arts in Social Justice and Human Rights (MASJHR) degree program.

The program, housed in ASU's New College of Interdisciplinary Arts and Sciences, admitted its first group of students in August.

"Mr. Holness and Mr. Weldehaimanot are leading attorneys working in very creative ways to advance human rights in Africa," says William Simmons, an associate professor of social and behavioral sciences and MASJHR program director. "Meeting them will be an invaluable experience for our students, and we also are pleased to offer the public an opportunity to meet them and to learn firsthand about issues that are vital to the advancement of human rights around the world."

For information about the seminars, contact Tosha Ruggles at (602) 543-6241 or [tosha.ruggles@asu.edu](mailto:tosha.ruggles@asu.edu). Details about the MASJHR program can be found online at [www.newcollege.asu.edu/programs/social\\_justice](http://www.newcollege.asu.edu/programs/social_justice).

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Walter Cronkite School of Journalism and Mass Communication

## Craft named Broadcast Educator of the Year

By Julie Newberg

Professor John Craft of the Walter Cronkite School of Journalism and Mass Communication is the winner of the first Jack Clifford Broadcast Educator of the Year Award, given by the Arizona Broadcasters Association.

Craft, the senior member of the Cronkite faculty at ASU, was honored Oct. 16 at the Arizona Broadcasters Association's 19th annual hall of fame dinner at the Buttes Marriott Resort in Tempe.

The association decided this year to name an award in honor of Clifford, a longtime member and a television industry leader for more than 50 years. Recipients are veteran educators of radio and television broadcast students at community colleges or universities.

"The Arizona Broadcasters Association Foundation started the award in honor of Mr. Clifford's passion for the education future broadcasters receive," says Art Brooks, president and chief executive officer for the association. "It made sense to do the award and name it for Jack."

Clifford says he's pleased that the first award in his name will go to Craft.

"John Craft is a prime example of the kind of individual that I think every professional educator should be," Clifford says.

Brooks says Craft was chosen for the award because of his many years of service to journalism education.

"When you teach that long, you affect the lives of your students to the point where they are going to be passionate about the industry," Brooks says. "That's John's legacy."

Craft began teaching journalism at ASU in 1973, the year the journalism school moved to Stauffer Hall on the Tempe campus. This summer, he

moved into his second new journalism building when the Cronkite School moved to downtown Phoenix.

Craft says he's taught "just about everything in the broadcast area," including TV production, TV directing, broadcast programming, cable TV, broadcast management, mass media and society, announcing and sales. He also was the director of graduate studies at the Cronkite School for more than a dozen years.

Craft became interested in broadcasting in 1962 while a student at Ohio University. He was majoring in technical theater but signed on to help at the new campus television station.

"Like a lot of students, I was cheap labor," Craft says. "I operated a camera and was a technical director."

He went on to get a master's degree in radio and television, and a doctorate of philosophy in mass communication at Ohio University. He taught media courses at Ohio University and West Liberty State College in West Virginia. He also produced, directed or otherwise contributed to numerous television programs at public television station WOUB-TV in Ohio, and later as an independent documentary producer and director.

Craft is the recipient of a number of awards, including the Silver Circle Award from the National Academy of Television Arts and Sciences. As an Arizona Humanities Scholar, he frequently shares his expertise with civic, educational and professional organizations.

"It's nice to be rewarded by people in your business," Craft says. "I was very fortunate."

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## Duarte concludes lecture series on Juárez murders

By Marshall Terrill

One of Arizona's most beloved and popular literary figures will speak during the Community Lecture Series at the Downtown Phoenix campus, with a discourse on Mexico's "Crime of the Century."

Author Stella Pope Duarte will conduct a reading, signing and dance presentation of her latest book, "If I Die in Juárez," at 5:30 p.m., Nov. 13, at El Portal Restaurant, 117 W. Grant St.

"The fall of 2008 marked the first semiannual School of Letters and Sciences and University College Lecture Series held on ASU's Downtown Phoenix campus," says Mirna Lattouf, a senior lecturer at ASU's School of Letters and Sciences. "We were honored to have exceptional lectures by political scientist Karen Shafer and artist Sama Alshaihi, and we look forward to the last one by acclaimed and highly inspirational author Stella Pope Duarte. Her work on the women of Juárez brings attention to a very timely topic, and an important one for all of our communities."

Lattouf adds that the first-time community lecture series was hugely successful and will return to ASU's Downtown Phoenix campus in the spring.

The School of Letters and Sciences in University College is designed to respond to the needs of ASU students and downtown faculty members, and to the challenges of higher education and constituent communities.

Duarte, an educational consultant and human rights advocate, penned "If I Die in Juárez" (University of Arizona Press, \$16.95) based on the rapes and murders of about 400 women between the ages of 11 and 22 on the streets of Juárez, starting in 1993.

The 336-page novel traces the lives of three young women – Evita, a street child; Petra, a maquiladora worker; and Mayela, a Tarahumara Indian girl – who together uncover Juárez's forbidden secret: the abduction, mutilation and murder of young women. Bound together by



Author Stella Pope Duarte will conduct a reading, signing and dance presentation of her latest book, "If I Die in Juárez," at 5:30 p.m., Nov. 13, at El Portal Restaurant, located at 117 W. Grant St. in Phoenix.

blood, honor, an ancient chant and a mysterious photo, the girls bring the murderous secrets of Juárez to life.

"I've always been attracted to helplessness and people who have no voice," Duarte says. "These were crimes that I could not leave alone or remain silent, and their plight has become mine as well. There is something in me that cries out against such cruel injustice and seeks to honor those who have died suffering unimaginable torment."

Based on interviews with the relatives of murdered women, "If I Die in Juárez" gives readers the experience of walking in the shoes of women who daily risk their lives by merely stepping outside. The agony of one of the darkest tales in human history brings to light a strange new hope, illusive yet constant, resisting lies, betrayal

and the desert's silent sentence of death.

Duarte says she visited actual sites in Juárez where women's bodies have been uncovered, walked the streets of the red-light districts of the city, toured where the poor reside, and met with activists and investigators for her research.

She says speculation as to who is responsible for the murders, described as hate crimes, can be attributed to several groups, including cartels and Mafioso groups; drug traffickers; opportunists; serial killers; gang members; and jealous boy-friends and husbands.

Duarte says the murders have continued for years because police investigations have been poorly managed with no follow-up; families have been accused of negligence; victims have been denounced as prostitutes; torture has been used to obtain false confessions; and investigations have been closed without notice to families or further efforts to uncover the murders.

The Reforma, Mexico's leading newspaper, has called the Juárez murders the "crime of the century."

The Phoenix-based author started her literary career in 1995, after she had a prophetic dream in which her deceased father related to her that her destiny was to become a writer. Her dream came true when "Fragile Night" (Bilingual Press) was published in 1997. Five years later, Harper Collins published "Let Their Spirits Dance." Released in 2008, "If I Die in Juárez" is her latest literary endeavor.

Duarte also teaches creative writing at South Mountain Community College and the Paradise Valley Community Center.

The lecture series and book signing is free and open to the public. However, seating is limited to the first 85 people.

For more information on Duarte, visit the Web site [www.stellapopeduarte.com](http://www.stellapopeduarte.com).

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## Shuttle-service partnership benefits ASU community

By Karen Bielak

ASU Parking and Transit Services has announced a partnership with Arizona Shuttle that will provide students, faculty and staff with valuable and inexpensive options for holiday travel to the airport, as well as transportation to Tucson.

Free holiday shuttle service will be available between the ASU Tempe campus and Sky Harbor International Airport beginning with the Thanksgiving break. Shuttles will depart hourly from two locations on campus – Sixth Street and College Avenue, and Lemon Street and Forest Avenue – from 7 a.m. until 10 p.m. Service will be available Nov. 24 through Nov. 26. No reservations are needed; passengers can board at either location.

Return service from the airport will be available Nov. 29 and Nov. 30. Passengers should proceed to the City-to-City Shuttle Check-In counter located in the baggage claim area of each terminal and ask for a shuttle back to ASU's Tempe campus. This service will be provided hourly from 7 a.m. until 10 p.m. both days.

This same free service also will be available at the beginning and end of winter and spring breaks.

"We are very excited to bring this shuttle service to ASU," says Theresa

Fletcher, director of Parking and Transit Services. "This vendor is licensed to drop off in the terminal, which provides a round-trip experience and completes the loop of getting students to and from the airport."

Additionally, shuttle service between ASU's Tempe campus and Tucson will be available every weekend from Friday through Sunday, beginning Nov. 7. The cost is \$50 round-trip, or \$25 for a one-way ticket.

Reservations are being accepted online, and passengers are required to make a reservation online by midnight of the day before travel. Once the purchase is complete, passengers must print their confirmation page and bring it with them to board the shuttle.

This shuttle also departs from Sixth Street and College Avenue, and Lemon Street and Forest Avenue, and makes three stops in Tucson, including one on the University of Arizona campus.

"We look forward to providing reliable, convenient, safe and affordable transportation for the ASU Tempe campus," says Bill Poulos, Phoenix operations manager for Arizona Shuttle.

For more information on these shuttles, including complete schedules and online reservation form, visit the Web page <http://pts.asu.edu>.

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## 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.

The construction of Mekong Plaza in Mesa has brought the first indoor Asian-theme shopping mall to the Valley. "There are many people as well as Asian-American businesses moving out of California to Arizona" because of the cost of living, says **Wei Li**, associate professor of Asian Pacific American Studies. "It's been a trend since the 1990s," she says, adding that high-tech and biotech jobs also have lured Southeast Asian immigrants to the state. *Arizona Republic*, Oct. 18.

More moms are going back to work, especially with the faltering economy, but some are opting for part-time work. It likely will be six months more before government statistics confirm the trend, says **Mary Benin**, an ASU sociology professor, but it makes sense. "Whenever there is a downturn in the economy, you're going to find women going into the work force who weren't working before," she says, especially with rising gas and food prices coupled with worries that their husbands could be laid off. *Arizona Republic*, Oct. 20.

Some small and medium-sized East Valley businesses facing cash crunches are using a historic but seldom-used escape route called "factoring" – selling accounts receivable at a discount to gain money quickly. "Factoring goes back hundreds of years," says ASU business professor **Anthony Sanders**. "And because of the current economic situation, it's becoming more popular today in the Valley." *East Valley Tribune*, Oct. 22.

While federal land management agencies have long recognized the need to allow fire to burn in some areas, the problem is transferring that philosophy to decision-making on the ground, says **Stephen Pyne**, a fire management professor at ASU. "It's not a case of whether we burn or we suppress," Pyne says. "That's not an issue anymore. That's over. The issue is how do you make it happen and change the discussion." *San Diego Union-Tribune*, Oct. 23.

The short-hair trend that once dominated first lady fashion seems to have been replaced with longer locks. **Rose Weitz**, a women and gender studies professor at ASU, says that long hair is perceived as more feminine and more youthful, but also less intelligent, less competent and less threatening. "I interviewed one woman who worked at a major corporation in Arizona," Weitz says. "She said you could draw a line on the organizational hierarchy chart, and above that line there was not a single woman with hair that touched her shoulders." *Chicago Tribune*, Oct. 27.



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, Nov. 3

**University Senate**, 3-5 p.m., Education Lecture Hall (EDC) 117. Information: (480) 965-2222.

## Lectures

### Monday, Nov. 3

**"Extended Cognition and Second Language Learning,"** 2-3 p.m., Durham Language and Literature Building (LL) room 316. Speaker: Dwight Atkinson, associate professor of English, Purdue University. Atkinson teaches courses in qualitative research, postmodernism and second-language acquisition. Sponsored by ASU Interdisciplinary Committee on Linguistics and ASU Department of English. Reception follows lecture. Information: (480) 965-7611.

**Must-See Mondays Speakers Series**, 7 p.m., Walter Cronkite School of Journalism and Mass Communication, First Amendment Forum, 555 N. Central Ave., Phoenix. Speaker: Pedro Gomez, ESPN commentator. Sponsored by Cronkite Career Services and the student chapters of the National Academy of Television Arts and Sciences, Radio-Television News Directors Association and Association of Multicultural Journalists. Information: (602) 496-8692.

### Tuesday, Nov. 4

**"Darwin and the Future of Biology,"** 7 p.m., Tempe Center for the Arts, 700 W. Rio Salado Parkway, Tempe. Speaker: Conservationist, humanist and Pulitzer Prize winner E. O. Wilson. Part of Darwinfest, a yearlong creative enterprise that celebrates how bold ideas and great scientific minds bring change to our understanding of biodiversity, the planet and ourselves. Sponsored by the School of Life Sciences. Free, but tickets required: (480) 350-2822. Limit of four tickets per person. Information: <http://darwin.asu.edu>.

**"Future Imperfect,"** 7-8:30 p.m., Memorial Union (MU) Pima Auditorium (230). David D. Friedman, son of Nobel Laureate Milton Friedman, discusses his new book by the same title. Friedman is an economist and professor of law at Santa Clara University. Sponsored by Student Economics Association. Information: [dvsouza@asu.edu](mailto:dvsouza@asu.edu).

### Wednesday, Nov. 5

**"Efficacy and Ethics in Decision-making Tools,"** noon-1:30 p.m., Brickyard Orchid House (BYOH) room 175, 21 E. 6th St., Tempe. A panel discussion with Nichole Peterson, Center for Research on Environmental Decisions, Columbia University, and Dave White, School of Community Resources and Development, ASU. Lunch included. Reservations required: (480) 965-3367 or [estella.ohanlon@asu.edu](mailto:estella.ohanlon@asu.edu).

**"The Manuscript as Monument: Illuminating Alexander the Great in the Fourteenth Century,"** 3-4:30 p.m., LL room 165. Speaker: Mark Cruse, assistant professor of French, School of International Letters and Cultures. Part of the SILC Work-in-Progress Lecture Series. Information: [silc@asu.edu](mailto:silc@asu.edu) or (480) 965-6281.

**"Meeting CO<sub>2</sub> Mitigation Goals: Challenges for the U.S. Electric Power Sector,"** 3 p.m., Global Institute of Sustainability (GIOS) room 481. Speaker: Paul Joskow, president, Alfred P. Sloan Foundation, and Elizabeth and James Killian professor of Economics and Management, Massachusetts Institute of Technology (on leave 2008). Part of the 2008-2009 Energy Policy Lectures Series, "Transforming the Energy Economy: Economic Policies for a new Administration." Sponsored by Arizona Public Service, the W. P. Carey School of Business and GIOS. Information: (480) 965-9301.

**"Themes and Methodology in Modern Mexican History,"** 3:30 p.m., Coor Hall room 4403. Presented by professor William H. Beezeley, University of Arizona, leading historian of Mexico and the author of "Mexican National Identity: Memory, Innuendo and Popular Culture," co-author of "Oxford History of Mexico." Sponsored by Department of History. Information: (480) 965-5778.

**"Models of Eukaryotic Chemotaxis,"** 3:40 p.m., Barry M. Goldwater Center (GWC) room 487. Speaker: Herbert Levine, University of California-San Diego. Refreshments at 3:30 p.m. Sponsored by Center for Biological Physics. Information: (480) 965-4073.

**"ALMA: A Transformative International Astronomy Facility,"** 4:10-5 p.m., Bateman Physical Sciences Center (PS)

F-101. Speaker: Fred Lo, director of the National Radio Astronomy Observatory. Sponsored by the School of Earth and Space Exploration. Refreshments served at 3:45 p.m. in PS F-lobby. Information: (480) 965-5081.

**National Book Launch and Book Signing**, 6:30 p.m., Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix. Pulitzer Prize-winning authors and scientists Bert Hölldobler and Edward O. Wilson will speak about the "beauty, elegance and strangeness of insect societies" and sign their newest book, "The Superorganism." Free and open to the public. Seats are limited. To reserve tickets, contact: [margaret.coulombe@asu.edu](mailto:margaret.coulombe@asu.edu); (480) 727-8934. To reserve your first-edition copy of the book (and save 20 percent), contact Scott at the ASU Bookstore (480-965-4165). Books will be distributed and signed on the night of the event.

**"What Went Wrong? Ethical Issues Arising From the Current Economic Crisis,"** 7 p.m., MU Pima Auditorium (230). A panel discussion by Alex Bingham, executive director, Ethisphere Institute; Stephen Happel, Department of Economics, W. P. Carey School of Business; Marianne Jennings, Department of Management, W. P. Carey School of Business; Rabbi Barton Lee, Hillel at ASU; Myles Lynk, Sandra Day O'Connor College of Law. Sponsored by Hillel at ASU, supported by a grant from the Daron and Ron Barnes Family Foundation. Information: (480) 967-7563.

**"Moundville: Archaeology of a Pre-Columbian Ceremonial Center in Alabama,"** 7-8 p.m., Murdock Lecture Hall (MUR) room 201. Speaker: Vincas Steponaitis, Department of Anthropology, University of North Carolina-Chapel Hill. Co-sponsored by Sigma Xi and School of Human Evolution and Social Change. Information: <http://shesc.asu.edu/colloquia>.

### Thursday, Nov. 6

**"One Entrepreneur's Dream: Combat the No. 1 Cancer Killer with Disruptive Three-Dimensional Cell Imaging Technology,"** 3-4 p.m., Biodesign Institute Auditorium. Speaker: Alan Nelson, founder, chairman and chief executive officer, VisionGate Inc., Gig Harbor, Wash. Part of the Biodesign Institute Innovators Seminar Series. Information: (480) 727-9386.

**"Beyond Taboo: The Interdisciplinary Imperative in Environmental and Sustainability Studies,"** 3:30 p.m., GIOS room 481. Speaker: Bron Taylor, professor, Department of Religion, University of Florida. Part of the Wrigley Lectures. Cosponsored by Institute for Humanities Research, Department of Religion, Department of History and Jewish Studies. Information: (480) 965-2975 or <http://sustainability.asu.edu>.

**"The Physics of NASCAR,"** 4 p.m., PS F-123. Speaker: Diandra Leslie-Pelecky, University of Nebraska. Sponsored by Department of Physics. Information: (480) 965-9075.

### Friday, Nov. 7

**"Biogenesis and Trafficking of RNA Modification Complexes and Human Telomerase,"** noon, PS H-151. Speaker: Michael Terns, Department of Genetics, University of Georgia. Sponsored by Department of Chemistry and Biochemistry. Information: (480) 965-2093.

**"Stretchable Microelectrodes for Biomedical Applications,"** 12:10-1:10 p.m., Schwada Classroom Office Building (SCOB) room 150. Speaker: Oliver Graudejus, Princeton University and Center for Adaptive Neural Systems, ASU. Sponsored by: Center for Adaptive Neural Systems and jointly hosted by Harrington Department of Bioengineering. Information: (480) 965-9489.

**"An Update on the Status and Distribution of Jaguars (Panthera onca) in the Southwestern United States; Borderlands Jaguar Detection Project,"** 2-3 p.m., Life Sciences Center (LS) E-104. Speaker: Emil McCain, project biologist, Borderlands Jaguar Detection Project, Amado, Ariz. Sponsored by School of Life Sciences. Information: (480) 965-2705.

**"Active Control for Vibration Reduction, Noise Alleviation and Performance Enhancement of Rotorcraft,"** 2-3 p.m., PS H-153. Speaker: Peretz Friedmann, University of Michigan. Sponsored by Mechanical and Aerospace Engineering Department. Information: (480) 727-0476.

**"Mechanisms of Primate Species Coexistence: Implications for Understanding Evolution of Species Richness, Nutritional Niches and Feeding Guilds,"** 3:30-4:30 p.m., School of Human Evolution and Social Change (SHESC) room 340. Speaker: Joanna Lambert, departments of anthropology and zoology, University of Wisconsin. Sponsored by the School of Human Evolution and Social Change. Information: <http://shesc.asu.edu/colloquia>.

### Monday, Nov. 10

**Must See Mondays Speakers Series**, 7 p.m., Walter Cronkite School of Journalism and Mass Communication, First Amendment Forum, 555 N. Central Ave., Phoenix. Speakers: Stan Barnes, political consultant, and Jeanine L'Ecuyer, director of communications, Arizona governor's office. Information: (602) 496-8692.

### Wednesday, Nov. 12

**"The 3 Rs for the Second Half of Life: Relaxation, Restoration and Renewal,"** 10:30 a.m.-noon, Student Union Cooley Ballroom A, Polytechnic campus. Presented by Pamela Scala, ASU lecturer in the School of Social Work. Sponsored by Osher Lifelong Learning Institute. R.S.V.P.: (480) 727-1153 or [lois.lorenz@asu.edu](mailto:lois.lorenz@asu.edu).

**"Canadian and U.S. Public Policy Discourse in Energy**

**and Climate Change: Comparative Perspectives,"** 3:30 p.m., Coor Hall room 5536. Speaker: Emadad Haque, University of Manitoba's Natural Resources Institute. Sponsored by School of Geographical Sciences. Information: (814) 591-6421 or [bpompeii@asu.edu](mailto:bpompeii@asu.edu).

**"Can Simple Network Models of Protein Dynamics Predict Crystallographic B-factors?"** 3:40 p.m., GWC room 487. Speaker: Dmitrii Makarov, University of Texas-Austin. Refreshments at 3:30 p.m. Sponsored by Center for Biological Physics. Information: (480) 965-4073.

**"The Stratospheric Observatory for Infrared Astronomy,"** 4:10-5 p.m., PS F-101. Speaker: Bob Gehrz, University of Minnesota. Sponsored by the School of Earth and Space Exploration. Refreshments served at 3:45 p.m. in PS F-lobby. Information: (480) 965-5081.

**A Conversation with Susan Page and Carl Leubsdorf**, 7 p.m., First Amendment Forum, Walter Cronkite School of Journalism and Mass Communication, 555 N. Central Ave., Phoenix. Page is Washington bureau chief of *USA Today*, and Leubsdorf is Washington bureau chief of the *Dallas Morning News*. They will analyze media coverage of the 2008 presidential election. The discussion will be moderated by N. Christian Anderson III, former editor and publisher of the *Orange County Register*, and the Edith Kinney Gaylord Visiting Professor in Journalism Ethics at the Cronkite School. Information: (602) 496-8692.

**"Improved Humans: Legal and Political Aspects of the New Genetics,"** 7:30 p.m., Armstrong Hall Great Hall. Speaker: Maxwell Mehlman, Templeton Research Fellow, and professor of law and of bioethics, Case Western Reserve University. Part of the Templeton Research Lectures at ASU: Facing the Challenges of Transhumanism. Sponsored by the Center for the Study of Religion and Conflict. Information: (480) 727-6736 or [csrc.asu.edu](mailto:csrc.asu.edu).

### Thursday, Nov. 13

**"Geometry of the Electron Clock,"** 4 p.m., PS F-123. Speaker: David Hestenes, ASU. Sponsored by Department of Physics. Information: (480) 965-9075.

**"Medieval Edens: Sex, Death and Power in Paradise,"** 7 p.m., MU Pima Room (230). Alastair Minnis, Douglas Tracy Smith professor of English, Yale University, delivers the ACMRS Distinguished Lecture in Medieval Studies. Co-sponsored by ACMRS and the Department of English. Reception follows lecture. Information: (480) 965-9323.

**"The State of Asian Americans and Pacific Islanders in Arizona,"** 6:30-7:30 p.m., Karsten Golf Course Trophy Room, 1125 E. Rio Salado Parkway, Tempe. Sponsored by ASU Asian Pacific-American Studies. Information: (480) 965-0582.

**"Physics of the Impossible,"** 7:30 p.m., Armstrong Hall Great Hall. Speaker: Michio Kaku, a theoretical physicist at NYU who works on string theory and other topics at the frontier of fundamental research. The annual Science Fact Meets Science Fiction Lecture is presented by Beyond: Center for Fundamental Concepts in Science. Information: (480) 965-3240.

## Conferences

### Saturday, Nov. 1

**Third Annual Emeritus College Symposium**, 8:30 a.m.-4 p.m., Memorial Union (MU) various locations. Keynote speaker: Grady Gammage Jr.; luncheon speaker: David Coon, professor of social and behavioral sciences, West campus. Registration: \$25 members; \$50 non-members. Information: (480) 965-0002.

### Sunday, Nov. 9

**"Women of the Book – In the Jewish Tradition of Learning and Growing,"** 9 a.m.-1 p.m., Ina Levine Jewish Community Campus, 12701 N. Scottsdale Road, Scottsdale. Co-sponsored by Jewish Studies Program. Information: (480) 727-6906.

## Miscellaneous

### Saturday, Nov. 1

**Earth and Space Exploration Day**, 9 a.m.-3 p.m., Bateman Physical Sciences Center (PS) F-Wing Sponsored by School of Earth and Space Exploration. Information: [sese.asu.edu](mailto:sese.asu.edu) or (480) 727-9329.

**Astronomy Open House**, 8-10 p.m., PS roof H wing (fifth floor). Come anytime during the evening and take a peek through the telescopes, see a poster display, take an astronomy quiz and see a slide show. Information: (480) 965-7652 or <http://homepage.mac.com/agfuentes/openhouse.html>.

### Sunday, Nov. 2

**Astronomy Fair**, 1-4 p.m., Memorial Union (MU) Arizona Room (207). For children ages kindergarten through fourth grade. Activities include Alka-Seltzer Rockets, Bubble Planets, Astronomy Bingo, storytelling by Susanne Lasseter and telescope viewing. Sponsored by Programs for Talented Youth. Registration: [www.asu.edu/astronomyfair](http://www.asu.edu/astronomyfair). Information: (480) 727-7450.

### Monday, Nov. 3

**"Classroom Assessment Techniques: Application Cards and Student-Generated Test Questions,"** 12:15-1:30 p.m., Discovery Hall room 212. This technique is devised to assist students in realizing real-world applications of what they have learned in the classroom environment. Student-generated test questions are a means to assess how well students know the material presented in class, what content students see as most important, and how well they can perform in answering the questions. These are valuable tools of assessment before any high-stakes exams. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://dte.asu.edu>.

### Tuesday, Nov. 4

**Discussion of "Hot, Flat and Crowded: Why We Need a Green Revolution – and How It Can Renew America,"** by Thomas L. Friedman, noon, second floor main hallway, Global Institute of Sustainability (GIOS). Hosted by Lutheran Campus Ministry. Conveners: Sustainability major Loni Amundson and the Rev. Gary N. McCluskey. Continues Nov. 18 and 25, and Dec. 2. Information: (763) 923-3276.

**"Selling Your Skills: Résumés and Cover Letters That Get Results,"** 1-2:30 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).

**Election Night Coverage,** 6 p.m., Walter Cronkite School of Journalism and Mass Communication, 555 N. Central Ave., Phoenix. Watch network, cable, local and Cronkite News-Watch live news coverage of election night 2008 on the big screen. Information: (602) 496-8692.

### Wednesday, Nov. 5

**"Creating Prompts for Writing Activities,"** 12:15-1:30 p.m., Discovery Hall room 212. This workshop will help participants design better writing prompts for course assignments. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://dte.asu.edu>.

**"STAR in the Employment Interview,"** 1-2:30 p.m., SSV room 329. Sponsored by Career Services. Information: (480) 965-2350 or [www.asu.edu/career](http://www.asu.edu/career).

**"Developing Your Professional Image: Business Etiquette,"** 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).

### Thursday, Nov. 6

**"CLA in the Classroom Academy,"** 8 a.m.-5 p.m., MU Pima Auditorium (230). Sponsored by the Office of the Executive Vice President and Provost of the University. Also: Nov. 7, 8 a.m.-2 p.m., Memorial Union (MU) Turquoise Ballroom (220). Information and registration: (480) 965-9291 or [oue@asu.edu](mailto:oue@asu.edu).

**Grad School and Internship Fair,** 10 a.m.-1 p.m., Student Recreation Complex (SRC). Sponsored by ASU Career Services and Graduate College. Information: (480) 965-2350 or [www.asu.edu/career](http://www.asu.edu/career).

**Rio Salado Architecture Foundation Memorial Tournament,** noon, Karsten Golf Course, 1125 E. Rio Salado Parkway, Tempe. Organized by the American Institute of Architects (Rio Salado Architecture Foundation). Admission. Information: (480) 894-4637.

**First Thursday,** 5-6 p.m., Biodesign Institute Lobby. A monthly social and scientific exchange designed to spark collaboration among ASU's scientific research community. Information: (480) 727-9386.

**Graduate Programs Information Session,** 6 p.m., Faculty and Administration Building (FAB) room N-150, West campus. Sponsored by AS School of Global Management and Leadership. Information: (602) 543-4622.

### Friday, Nov. 7

**Reading by U.S. Poet Laureate Charles Simic,** 7:30 p.m., Carson Ballroom at Old Main. Simic was born in Yugoslavia and grew up in war-torn Europe. He came to the United States in 1954 when he was 16. He began to make a name for himself in the 1970s as a "literary minimalist," writing poems that have been referred to as "tightly constructed Chinese puzzle boxes." Sponsored by Virginia G. Piper Center for Creative Writing. Information: (480) 965-6018.

### Monday, Nov. 10

**"Come Home to English 2008 Art & Archives Gallery,"** 8 a.m.-5 p.m., Durham Language and Literature Building (LL) room 316. See new artwork by Department of English faculty, staff, students and alumni. Reception: 3:15 p.m., Nov. 10. Continues through Nov. 15. Information: (480) 965-7611.

**Reading and book-signing by Bill Konigsberg (MFA 2005),** 6:30 p.m., College of Design North (CDN) room 60. Konigsberg's debut novel is "Out of Pocket." Sponsored by Department of English. Information: (480) 965-7611.

### Wednesday, Nov. 12

**"(A)Wake for Milton,"** noon-2 p.m., MU Gold Room (207). Event includes a panel discussion featuring ASU English alumni William Gentrup, Jesse Swan and Gary Hatch. Guest of Honor: John X. Evans, ASU English professor emeritus. Sponsored by ASU English Club, Department of English and

the Arizona Center for Medieval and Renaissance Studies. Information: (480) 965-7611.

**"Mentoring Relationships,"** 12:15-1:30 p.m., Discovery Hall room 212. This workshop is designed to help mentors and mentees develop strategies and guidelines for effective communication, learning outcomes, retention, articulation through graduate programs, and best practices of mentoring relationships. Strategies also are given for virtual mentoring and mentoring resources. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://dte.asu.edu>.

### Thursday, Nov. 13

**"STAR in the Employment Interview,"** 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).

**"Developing Job Search Strategies for New ASU Grads,"** 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).

## 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. 31

**"Secrets of Gardenias,"** 7:30 p.m., Studio 133, Nelson Fine Arts Center. Part of the Festival of New Work. Also at 2 p.m., Nov. 2.\*

### Saturday, Nov. 1

**"Buddy Bolden's Blues,"** 2 p.m., Studio 133, Nelson Fine Arts Center. The life and times of the reputed "Father of Jazz" are deconstructed in this "work-in-progress" by Gus Edwards. Part of the Festival of New Work. Contains strong language.\*

**Contemporary Percussion Ensemble,** 7:30 p.m., Katzin Concert Hall.

**"Don Coyote,"** 7:30 p.m., Lyceum Theatre. Daniel S. Frey's story about an American Mexican coyote who ran a successful human-smuggling business at the Arizona-Mexico border. A car accident, a brutal killing and a beautiful young woman named Rosa threaten to unravel the fabric of their partnership. Contains violence and strong language. Part of the Festival of New Work. Contains violence and strong language.\*

**Khani Cole Band,** 3 p.m., ASU Kerr Cultural Center, Scottsdale. Special guest: saxophonist Marion Meadows.\*\*

### Sunday, Nov. 2

**Faculty artist Robert Barefield,** 7:30 p.m., Katzin Concert Hall. Barefield and friends will present an evening of song, featuring the music of Purcell, Chausson, Brahms and others.\*

### Tuesday, Nov. 4

**Tuesday Morning Music Concert,** 10:30 a.m., ASU Kerr Cultural Center, Scottsdale. ASU professor of harp Lynne Aspnes and her students are featured. 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.

### Wednesday, Nov. 5

**"The Arizona Project,"** 7:30 p.m., Herberger Theater Center, 222 E. Monroe St., Phoenix. A one-woman show written and presented by actress Anna Deavere Smith about women, justice and the law based on interviews conducted with an extraordinary array of judges, attorneys, political figures, activists, convicts and other women involved in the justice system.

Also at 7:30 p.m. Nov. 7-8. Nov. 8 performance includes VIP tickets for \$100, which includes a private reception with Smith. General tickets: \$25 (\$7) students. Presented by Future Arts Research (F.A.R.). Box Office: (602) 254-7399.

### Thursday, Nov. 6

**Coffee at Kerr,** 10:30 a.m., ASU Kerr Cultural Center, Scottsdale. Arizona Opera offers "Intro to Mikado." 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.

### Friday, Nov. 7

**"Civil Disobedience,"** 5-10 p.m., alley on north side of McDowell Road between 18th and 19th streets, downtown Phoenix. See graffiti art by national and local artists, and a live performance by the Furious Styles Crew. Part of an "urban conversation" about graffiti art. Sponsored by Herberger College of the Arts. Information: [richard.mook@asu.edu](mailto:richard.mook@asu.edu).

### Saturday, Nov. 8

**Veterans Day Weekend Traditional Pow Wow,** 10 a.m.-10 p.m., Fletcher Library Lawn, West campus. Produced by the Native American Events Committee and the Native American Student Organization. Information: (602) 543-5306.

**Ellie Robb Children's Art Workshop exhibit,** 11 a.m.-12:30 p.m., School of Art Plaza. Information: (480) 965-6981.

**"Hip-Hop in Phoenix Roundtable,"** 12:30-2 p.m., Evelyn Smith Music Theatre. KRS-One and other hip-hop celebrities will discuss graffiti art and the urban landscape. Part of an "urban conversation" about graffiti art. Sponsored by Herberger College of the Arts. Information: [richard.mook@asu.edu](mailto:richard.mook@asu.edu).

### Sunday, Nov. 9

**Guy & Raina of "The Lawrence Welk Show,"** 2 p.m., Mesa Arts Center, 1 E. Main St., Mesa. This concert of Broadway tunes, selections from the great American songbook and patriotic favorites is sponsored by Eight/KAET-TV. Admission. Information: (480) 965-2877 or [www.azpbs.org/eightboxoffice](http://www.azpbs.org/eightboxoffice).

### Monday, Nov. 10

**ASU Symphony Orchestra,** 7:30 p.m., ASU Gammage. The program, "Beyond Messiaen," features Gary Hill, conductor; William Bolcom, composer; Paul Festa, filmmaker; Joan Morris, soprano; and Alex Ross, critic and author. On the program: Bolcom's "Interlude from Seventh Symphony."

### Wednesday, Nov. 12

**Coffee at Kerr,** 10:30 a.m., ASU Kerr Cultural Center, Scottsdale. Members of the Valley Readers Theatre Group will be the guest artists. 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.

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

## Defenses

**Steven Spiriti,** PhD, Math., 10 a.m., Oct. 31, ECG 215.

**Keely Snider,** PhD, Phys., 1 p.m., Oct. 31, PSH 450.

**Liang Huang,** PhD, Elec. Engr., 3 p.m., Oct. 31, ERC 193.

**Deborah Popham,** PhD, Mus. Arts, Mus. (Perf.), 8:40 a.m., Nov. 3, MUSIC E243.

**Michael Sheller,** PhD, Bio. Engr., 9 a.m., Nov. 3, ISTB1 227.

**John Turpin,** PhD, Env. Des. and Pln., 3 p.m., Nov. 3, ED 216.

**Mark Peterson,** PhD, Phys. Act. Nutr. and Well., 10 a.m., Nov. 4, EXW 111.

**Alma, Alvarez-Smith,** PhD, Jus. Std., 2 p.m., Nov. 4, WILSN 255.

**Wei Zhao,** PhD, Elec. Engr., 9:30 a.m., Nov. 5, GWCC 208C.

**Mariano Phielipp,** PhD, Comp. Sci., 10:00 a.m., Nov. 5, BYENG 365.

**Rawiwan Laochaorensuk,** PhD, Chem., 12:30 p.m., Nov. 6, BDA L1-10/14.

**Regan Mayo,** PhD, Coun. Psy., 3 p.m., Nov. 6, EDB 444.

## Nov. 4 star-gazing event promises family fun

Celestial sights, including the moon and Jupiter, will come into clear focus through telescopes set up for public viewing at ASU's West campus, from 7 p.m. to 9 p.m., Nov. 4.

This fall version of the campus' popular Astronomy Open House program, dubbed "Election Night Under the Stars," is free and open to the public.

"Visitors who arrive early should also get the chance to view Venus through a telescope,"

says Paul Schmidtke, a senior lecturer in astronomy with ASU's New College of Interdisciplinary Arts and Sciences. "Depending on sky conditions, there are a number of intriguing sights in the early November sky that we expect to be able to see."

Valley residents have been visiting ASU's West campus for more than a decade to join astronomy faculty members and students for telescope viewings.

"It's literally fun for the whole

family," Schmidtke says. "For many participants, it's the first chance they've ever had to look at the stars through a telescope."

Election Night Under the Stars will take place along the bicycle path west of the multipurpose field, near the Central Plant building.

For more information, contact Paul Schmidtke via e-mail at [paul.schmidtke@asu.edu](mailto:paul.schmidtke@asu.edu).

## Glory days: Football legends recall early times in Sun Devil Stadium

(Continued from page 1)

coach by Dan Devine, succeeding Devine as head coach three years later.

He remembers the struggle to gather support for a yes vote on Proposition 200.

"I was a young man, just 29, when I became head coach in 1958," Kush says. "ASU was a small place, with about 6,000 students. I traveled around the state with (ASU president) Dr. Gammage and (alumni executive director) Jimmy Creasman and the deans, speaking at different luncheons to gather support for Proposition 200. I was really impressed with the amount of community support for ASU, during the campaign for the name change.

"The intriguing thing is that right behind us on the luncheon circuit were the president of the University of Arizona and his deans, telling people there should be only one university in the state of Arizona. I remember him holding up one finger and saying, 'Only one.'

"We opened up Sun Devil Stadium right before the election, and



Frank Kush



Ron Pritchard



Danny White

somebody had burned on the field in big block letters, 'No 200.'

"This shocked me, because I was a student at Michigan State a few years earlier when it became a university, and there was no political animosity at all. All this negative aspect was a surprise. The UA was the university in the state of Arizona, as far as they were concerned."

White's strongest memories from the 1970s are of training at

Camp Tontozona – and of Kush's tough regimen that made Saturday night games seem like a breeze.

"If you could make it through practice, the games were easy," White says. "We practiced every day in full pads. Kush ran the show, and everybody knew it. But, in his tyranny, he bonded us together – us against him. It was part of his method, and it worked.

"Camp Tontozona was special, all of us crammed into a big room, taking cold showers, doing nothing but eat, sleep and play football. It almost pushed you to the edge. But it also brought out the little kid in you, like going to summer camp."

White says the Sun Devils have the ability to beat Washington State Nov. 15, but he's not making any predictions.

"This year in college football, anything can happen," he says. "The football gods have taken over."

Tickets to the luncheon are \$40 for Alumni Association members and \$45 for non-members. To register, visit the Web site [www.asu.edu/alumni/homecomingluncheon](http://www.asu.edu/alumni/homecomingluncheon).

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

## In BRIEF

### Student group to conduct golf tournament

The Native American Law Student Association will conduct its third annual golf tournament at 7:30 a.m., Nov. 1, at the Foothills Golf Course in Ahwatukee, located at 2201 E. Clubhouse Dr. in Phoenix.

The entry fee is \$100 per player, which includes greens fees, cart fees, range balls, one raffle ticket and lunch. There will be prizes for longest drive and closest to the pin, putting contests, a raffle, and team placing of men, women and co-ed.

For more information, or to request an entry form, contact Brian Lewis at [blewis2@asu.edu](mailto:blewis2@asu.edu).

### C-SPAN's Campaign 2008 bus slates ASU stop

Mesa residents and ASU's Polytechnic campus students will be able to join the thousands who have boarded C-SPAN's Campaign 2008 bus as part of the "Road to the White House" tour, when the bus stops at the Student Union on the Polytechnic campus from 10:30 a.m. to 12:30 p.m., Nov. 3.

These events, in partnership with Cox Communications, are part of the bus's inaugural "Road to the White House" tour, named after C-SPAN's renowned political program that marks its 20th year on the air in 2008.

The 45-foot mobile production studio is on the campaign trail to promote and enhance C-SPAN's comprehensive political coverage. It is traveling to major political events such as candidate debates and speeches in primary states, touring state capitols, and conducting educational programs for teachers and students.

Since its January 2007 launch, the bus has been to 43 state capitols, 145 universities and 239 schools, where 816 elected officials, 8,947 teachers, more than 52,400 students and four former presidential candidates have been on board.

### Summer abroad informational meetings set

The ASU Study Abroad Office will conduct two informational meetings for faculty members interested in developing a summer 2009 study abroad program.

First-time program directors, as well as veteran program directors offering new programs, are strongly encouraged to attend. Attendees will learn about the process of proposing a new faculty directed study abroad program.

Interested parties should plan to participate in one of the following two meetings: noon to 2 p.m., Nov. 5 (feel free to bring a lunch), or 3 p.m. to 5 p.m., Nov. 6. Both events will be held in the Memorial Union's Mohave Room on the Tempe campus.

To R.S.V.P., contact Debbie Tibbs-Collins at (480) 965-5965 or [debbie.tibbs@asu.edu](mailto:debbie.tibbs@asu.edu).

### Atomic bomb exhibit makes stop at ASU

A traveling poster exhibit promoting peace, education, art and cultural exchange is making a stop at the ASU Downtown Phoenix campus.

The Arizona traveling exhibit of "Hiroshima Calling," a collection of about 30 informational posters chronicling the August 1945 atomic bombings of Hiroshima and Nagasaki, is on display at Information Commons, the ASU Downtown Phoenix campus library located at University Center, 411 N. Central Ave. The exhibit is free and open to the public. It runs through Nov. 6.

The goal of the exhibit is to reach 101 cities in the United States during a two-year period that will end Dec. 31. Some of the cities that have welcomed the exhibit include Lafayette, Ind., Raleigh, N.C., Wilmington, Del., Bozeman, Mont., and Oakland, Calif.

The poster series includes information and images on the effects of the atomic bomb; before and after images of the cities; survival after the bombing; heat rays; high-temperature fire; reconstruction; effects of radiation on the body; and a goal toward a peaceful world free from nuclear weapons.

The traveling exhibit is sponsored by the World Youth Visit Exchange Association of Arizona in partnership with the Ken Koshio Project, ASU's Pacific-American Studies Program, and

Northern Arizona University's Center for Asian Studies Program and Center for Asian Studies.

For more information, call (602) 234-4767 or visit the Web site [www.hiroshimacalling.org](http://www.hiroshimacalling.org).

### Retirees Association schedules Cosanti tour

The ASU Retirees Association will sponsor a tour to Cosanti, Paradise Valley and Taliesin West, Scottsdale, Nov. 6, with a lunch stop at El Chorro Lodge in Paradise Valley.

The stop at Cosanti, home of architect Paolo Soleri, will include a 60-minute guided tour, highlighted by a foundry pour of cast bronze bells.

Cost of the tour, which begins at 8 a.m. and concludes at 4 p.m., is \$85. The next trip will be Dec. 11 to Prescott.

Membership in the Retirees Association is open to all retired ASU employees. For more information, call (480) 965-7668.

### Supplier showcase to take place Nov. 6

The 18th Annual Supplier Showcase will be conducted by ASU Purchasing and Business Services in the Arizona and Ventana rooms of the Memorial Union from 10 a.m. to 2 p.m., Nov. 6.

The theme this year will be NASCAR, so start your engines and race on over to see the latest in office and lab supplies, furniture, computers, printers and services. This is a great opportunity to speak directly with the vendors and the ASU buyers. Many door prizes will be awarded as well.

### Symposium highlights theater connections

A symposium designed for faculty and advanced graduate students whose work intersects with early modern history, philosophy, mathematics, economics and literature, is scheduled from 2 p.m. to 5 p.m., Nov. 7, in the Social Sciences Building, room 109.

The symposium, "Early Modern Theater and Knowledge Production," will challenge the notion that theater is merely a site for cultural reflection by examining the ways it functions as a site for the production of social, scientific, and political knowledge.

The symposium will feature presentations by four scholars whose work crosses disciplinary boundaries and reveals surprising connections between theatrical and non-literary texts, such as atlases, economic treatises, encyclopedias and geometry manuals. The presentations will be followed by an open discussion of the methodological challenges faced by scholars attempting to reconstruct playgoing as a material, spatial and social practice.

The featured speakers are:

- Jonathan Gil Harris, professor of English at George Washington University and the author of several books, including "Untimely Matter in the Time of Shakespeare."

- Bradley Ryner, assistant professor of English at ASU and the author of several articles, including "The Panoramic View in Mercantile Thought: Or, A Merchant's Map of Cymbeline."

- Henry Turner, associate professor of English at Rutgers University and the author of several books, including "Shakespeare's Double Helix."

- William West, associate professor of English at Northwestern University and the author of several books, including "Theatres and Encyclopedias in Early Modern Europe."

Symposium participants are also invited to take a special 30-minute tour of ASU's Decision Theatre at 11 a.m., Nov. 7.

To participate, contact Ayanna Thompson, associate professor of English, at [Ayanna.Thompson@asu.edu](mailto:Ayanna.Thompson@asu.edu).

### Lecture focuses on social work, child welfare

ASU's College of Public Programs will conduct a free lecture on the state of social work in child welfare to explore how new technologies relate to good judgment.

The Linda Haskell Memorial Master Class 2008 will present "Challenges to Practice and Knowledge in Child Welfare Social Work: From the Social to the Informational?" from 8:45 a.m.

to 11:45 a.m., Nov. 7. The lecture takes place at the University Club of Phoenix, located at 36 E. Monte Vista in Phoenix.

This year's keynote speaker is Nigel Parton, Foundation National Society for the Prevention of Cruelty to Children chair and applied childhood studies at the University of Huddersfield in England. Parton will discuss the impact of new information and communication technology systems in the field, specifically addressing the shift from a narrative to a database way of thinking and operating to an informational mode and how the "social" may have been overshadowed by the "informational."

The lecture also will feature a panel of two respondents: Maureen Domogala, Childhelp Children's Advocacy Center director in Phoenix and Angie Roberts, human services policy adviser under Arizona Gov. Janet Napolitano. They will discuss how Parton's presentation applies to child-welfare practices in Arizona.

The Linda Haskell Memorial Master Class is an annual event supported by William and Rose Haskell in memory of their daughter, Linda, a social worker who was killed by a drunken driver in California.

Lecture seating is limited and must be reserved. For more information, or to register, call (602) 496-1564 or visit the Web site <http://copp.asu.edu/do/distinguishedprofessor>.

### Events highlight graffiti art, urban landscape

ASU Herberger College of the Arts students and faculty are exploring graffiti art and the urban landscape in two upcoming November events: the "Civil Disobedience" project and the "Hip-Hop in Phoenix Roundtable."

Both all-ages events are free and open to the public. Details include:

- Civil Disobedience project, 5 p.m. to 10 p.m., Nov. 7. The alley is located on the north side of McDowell Road between 18th and 19th streets in downtown Phoenix. This is a free, all-ages event.

- Hip-Hop in Phoenix Roundtable, 12:30 p.m. to 2 p.m., Nov. 8. The Evelyn Smith Music Theatre is located in the School of Music building on the ASU Tempe campus at Mill Avenue and Gammage parkway. This is a free, all-ages event.

### Law student organizes FBI fundraiser

Scott Seymann, a third-year student at the College of Law, is channeling his interests and talents, which include running, community service, catchy phrase-writing and helping an FBI citizens group, into one big event in November.

Seymann conceived and is organizing Outrun the FBI, a 5K run/walk and one-mile fun walk for the Phoenix FBI Citizens' Academy Alumni Association, of which he is a board member. Seymann hopes the event will raise \$10,000 for the association's Sexual Predator Initiative to protect children.

His slogan: "Help us shut down Internet predators! We run so they can't hide."

The fundraiser will take place Nov. 8, at Steele Indian School Park in downtown Phoenix, beginning with check-in, warm up and music at 7 a.m., and followed by the race at 8 a.m. An "ASU Law" team has been created, and the College of Law's Student Bar Association is encouraging students to join it, or to form their own teams, competitively or otherwise.

To find out more about the race, or to register, visit the Web site [www.OutrunTheFBI5K.com](http://www.OutrunTheFBI5K.com).

### Volunteers sought for Fall Art Fest Nov. 19

Volunteers are needed for the Nov. 19 Fall Art Fest, the art sale featuring the work of ASU staff, faculty, students, student groups and alumni.

Duties include checking in artists in the morning, watching the silent auction table and giving out prizes in the Fall Leaf Hunt.

Volunteers can work shifts of anywhere from one hour to all day. For more information, contact Mary-Beth Buesgen at (480) 965-7092 or [mary-beth.buesgen@asu.edu](mailto:mary-beth.buesgen@asu.edu).

## Researchers' study of sick fruit flies sheds light on human immunity

(Continued from page 1)

mammalian cells, and the human version of Dpp – BMP 2/4 – also works just fine when injected into flies,” Newfeld says.

Newfeld's research builds on earlier observations made by Aaron Johnson, then a graduate student in the Newfeld lab, now a postdoctoral fellow with University of Texas Southwestern Medical Center in Dallas. Johnson first observed that fruit fly mutants that lacked the ability to generate Dpp protein in one tissue (at a particular time in embryonic development) suffered from excess cell growth in the neighboring tissue. The lack of communication between the tissues resulted in uncontrolled cell growth, in this case in the heart.

“Dpp mutant flies have large hearts that are stiffer and beat inefficiently,” Newfeld says.

Johnson went on to uncover Dpp's role in heart development. He discovered that when the embryo is nearly ready to hatch, Dpp signals tell heart cells to stop growing. These instructions also ensure a proper boundary between the heart and surrounding muscle tissue.

While these were fundamentally exciting discoveries, Newfeld made them even more so when he extended Johnson's project. Since both the

heart and the lymph glands in the fly originate from the same tissue (cardiogenic mesoderm), he postulated that when heart development goes awry in fruit fly Dpp mutants, the lymph glands might also be affected.

“One of the functions of the lymph gland in fruit flies is to produce blood cells,” Newfeld says. “This is in contrast to humans, where the processes take place in our bone marrow.”

With support from Science Foundation Arizona, Frandsen built on Johnson and Newfeld's early discoveries by looking into the mutant fruit fly's immune system and blood cells. He noticed that, in addition to excess cell growth during heart development, Dpp mutants also had an excess of plasmacytes (blood cells involved in digesting small infectious particles) – an important clue that Dpp was affecting the regulation of the immune system of the flies.

Plasmacytes are one of three types of immune cells that arise from hematopoietic stem cells – embryonic cells that only take on their adult roles based on signals they receive from signaling molecules, including Dpp. But how Dpp might specifically function in blood cell formation remained a mystery.

With help from School of Life Sciences professor Roy Curtiss, director of the Center for Infec-

tious Diseases and Vaccinology at the Biodesign Institute, and his technician Bronwyn Gunn, Frandsen and Newfeld developed a novel experimental approach. Rather than curing their fly patients, they sought instead to make the Dpp mutants sick, hoping the infection with salmonella would provide a new avenue to study their immune system defects in greater detail.

“The problem with the traditional approaches to studying immunity is that we keep our flies in a pretty clean lab,” Newfeld says. “They see few, if any, pesticides or parasites – or anything they would need to defend themselves from.”

Getting flies sick wasn't trouble-free, Frandsen says. At first, the fruit flies wouldn't eat the type of salmonella that infects humans. But, with some clever cookery, a feeding technique was identified that led to salmonella-infected flies. Once inside the flies, the salmonella activated their immune systems.

Newfeld points out that it was then that Frandsen made a key observation: Dpp mutant flies are unable to produce one type of immune cell that normal flies do in response to an attack by pathogens. This was the first piece of evidence that Dpp might regulate the options available to hematopoietic stem cells.

The lack of Dpp in fly mutants meant that

their stem cells would only become plasmacytes. The inability of Dpp mutant fruit flies to produce a particular immune cell type was not obvious under regular lab conditions.

This type of defect is considered “cryptic.” It's a defect that is not immediately obvious because, until the fly requires an immune response, there is no way to know that something is wrong.

“Up to this point, Dpp had not been implicated in hematopoiesis in flies,” Newfeld says.

The discovery that Dpp plays a direct role in immune system regulation in flies could have some direct implications for humans, offering new insight into human diseases caused by mutations in bone morphogenetic proteins. Newfeld says too, that scientists who study these morphogenetic proteins in mammals (proteins very similar to Dpp) have known for some time that these proteins are involved in the hematopoietic stem cell growth in the bone marrow. The similarities between the two organisms are intriguing.

“These are exciting parallels; ones which can stimulate collaboration, provide inspiration and reveal new research directions relevant to the understanding of development and immune diseases,” Newfeld says.

*Overton, with the School of Life Sciences, can be reached at rick.overton@asu.edu.*

## Project takes closer look at urban residents' vulnerability to summer heat

(Continued from page 1)

degrees has increased significantly. Additionally, the metro area's central corridor contains fairly distinct neighborhoods of ethnic and socioeconomic diversity.

“At its core, this project is focused on how society impacts and interacts with the environment,” says Chris Martin, a professor of horticulture at ASU's Polytechnic campus and co-principal investigator for the project. “It's about understanding the stratification of society along socioeconomic gradients and how that results in environmental stratification.”

Higher-income areas are usually cooler, and one of the reasons is the increased amount of vegetation, such as lush lawns, that surround homes. This leads to another issue: Vegetation can somewhat diminish the heat island effect, but at the cost of water, a limited resource in the Southwest.

### Merging disciplines to see the big picture

More than a dozen researchers working in nearly as many scientific disciplines and subdisciplines are involved in the project.

“The equal partnership among the social and natural sciences, mathematics and education will allow us to use sophisticated modeling tools to analyze urban systems while not losing sight of the health and well-being of real people who live, work and go to school in vastly different neighborhoods,” Harlan says.

Will Stefanov, a senior geoscientist at the Image Science and Analysis Laboratory at NASA's Johnson Space Center, provides a novel view of the Phoenix-area landscape.

“This is an excellent project to use NASA's Earth remote sensing resources in a very relevant way,” he says.

The remotely sensed information is collected from satellites in space or by instruments in airplanes, which “gives you data on the entire city area at one point in time, which can be used to map differences in vegetation, surface temperature and land use and land-cover patterns,” he says.

Looking at these “snapshots” of the urban area over time helps reveal patterns of physical change that influence the development of the Phoenix urban heat island, Stefanov says.

The importance of studying one prototypical metropolis is apparent when considering that global climate changes and growing populations are likely to compound the heat

island effect and spur creation of new heat islands around the world.

Susanne Grossman-Clarke of ASU's Global Institute of Sustainability will assist in creating a heat profile of Phoenix, and conduct regional atmospheric modeling using the Weather Research and Forecasting model.

The model calculates – among many other variables that characterize the state of the atmosphere in a region – 2-meter air temperature and humidity with a spatial resolution of about 1 kilometer.

“That means we will obtain air temperature and humidity predictions for each square kilometer of the Phoenix metropolitan area,” Grossman-Clarke says.

For health-related data, the team will rely on ASU's Center for Health Information and Research, a part of the School of Computing and Informatics in the Ira A. Fulton School of Engineering.

*Guyot, with the School of Human Evolution and Social Change, can be reached at (480) 727-8739 or jodi.guyot@asu.edu. Howe, with the School of Human Evolution and Social Change, can be reached at (480) 727-6577 or rebecca.howe@asu.edu.*

## Clinical trials at ASU begin on device designed to aid stroke survivors

(Continued from page 1)

tings rather than just testing efficacy in carefully controlled environments, she says.

“Some of these new interactive, patient-centered technologies coming out of laboratories can be a great boost to people who have survived a stroke or other injury,” Mottle says. “Now we need to test them in actual settings to see how effective they are in aiding recovering patients. The potential to positively influence patients' functioning, quality of life and decrease overall costs of care is significant.”

“We are studying home use of the Hand Mentor and we want to see how it affects rehabilitation costs of stroke patients,” adds Ed Koeneman, founder and chief operating officer of Kinetic Muscles. “We suspect it will cost less for the patients as they try and regain hand movements by allowing much of the therapy to be done at

home. It also will allow the patients to regain their independence and boost their self-esteem.”

The Hand Mentor is a therapy device based on neuroplasticity – an understanding that the brain can, through certain practices, be “rewired.” For example, through memories created by repetition the brain can be taught to tell the limbs what to do, as it did before a stroke.

The Hand Mentor aids this effort by providing repetitive motion therapy to a patient. In operation, a pneumatic muscle arm piece is strapped onto a person's forearm and provides a coordinated motion of the hand and wrist triggered by the patient's performance through biofeedback. This arm piece attaches to a control box, which houses the device computer and provides performance reinforcement, goal setting, clinician reports and patient feedback, Koeneman says.

The Hand Mentor simulates natural motion of the hand that has been lost from stroke or other

neurological damage. It involves the patients in their rehabilitation efforts by encouraging self-initiated motion in the wrist and fingers, assisting movement only when necessary, Koeneman says. An interactive display engages the patients and allows them to work on exercises that help them restore range of motion to their hand and wrist.

Mottle says that, while the trials are ongoing, there still is a need for more test subjects.

“We are looking for another 20 post-stroke subjects for our trial,” she says, adding that the Nursing College's downtown campus academic ambulatory health center is ideal for these tests. “There's a real need for these types of tests for new drugs, new devices, biologics and vaccines. That is why we are setting up collaborations with companies such as Kinetic Muscles, because the outcomes of tests are fundamental to the success of these health care innovations.”

Mottle says these types of tests are perfect

for the clinical trial center, which first opened its doors in July 2007. She adds that the center includes an educational element.

ASU's College of Nursing has a graduate certificate in clinical management, and it recently received approval to begin a master's degree program for clinical research management, which will begin next fall.

The center might only be in its early stages of development, with three clinical trials ongoing and six more in the pipeline, but Mottle sees a bright future.

“We are small, we are new, but we've had huge impacts already,” she says.

For those seeking more information on the Hand Mentor clinical trial, and those who are interested in being part of the trials, call Sharon Goldsworthy at (602) 496-1225.

*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. 31 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

##### Executive and management

**Director, Annual Fund and Alumni Relations** (O) #21398 – College of Law (Nov. 13).

### Professional

**Academic Success Specialist** (O) #21391 – VP-Research and Economic Affairs (Nov. 5).

**Accounting Specialist** (O) #21284 – Undergraduate Admissions (Nov. 14).

**Coordinator Senior** (O) #21421 – Office of University Initiatives (Nov. 11).

**Development Officer Senior** (O) #21389 – The Biodesign Institute (Nov. 13).

**Financial Accounting Professional** (O) #21441 – W.P. Carey School of Business (Nov. 7).

**Laboratory Coordinator** (O) #21384 – College of Liberal Arts and Sciences (Nov. 18).

**Manager Marketing & Publicity** (O) #21408 – College of Liberal Arts and Sciences (Nov. 5).

**Research Advancement Administrator** (O) (Part-time) #21399 – College of Liberal Arts and Sciences-Center for Asian Research (Nov. 7).

**Student Recruiting/Retention Specialist Sr-Southern California** (O) #21320 – College of Community College Partnerships (Nov. 7).

**Systems Analyst Senior** (O) #21376 – University technology Office-Applied Learning Technologies Institute (Nov. 5).

**Systems Support Specialist (IT)** (O) #21418 – University Technology Office-Administrative Technical Support (Nov. 7).

### Administrative support

**Administrative Specialist** (O) #21442 – University technology Office-Customer Care (Nov. 12).

### DOWNTOWN PHOENIX CAMPUS

#### Professional

**Academic Success Specialist** (O) #21393 – Office of Community College Partnerships (Nov. 7).

**Computer Database Specialist** (O) #21387 – College of Public Programs (Nov. 5; if not filled, then every week thereafter until search is closed).

**Research Technician** (O) (Part-Time) #21388 – College of Nursing & Healthcare Innovation (Nov. 5).

### WEST CAMPUS

#### Professional

**Program Director** #21401 – Education Graduate Studies (Nov. 10).

### ACADEMIC POSITIONS

#### TEMPE CAMPUS

**Faculty Associate #P5051** – College of Liberal Arts and Sciences-Mathematics & Statistics (Dec. 1; if not filled, then every two weeks thereafter until search is closed).

**Faculty Associate #9243** – College of Liberal Arts and Sciences-Melikian Center (Nov. 10; if not filled, then every week thereafter until search is closed).

**Assistant Research Professional #9244** – The Biodesign Institute (Nov. 7; if not filled, then every week thereafter until search is closed).

## 'Superorganism' book launch features famous authors' insights about insects

By Margaret Coulombe

ASU and its School of Life Sciences will serve as hosts to an evening that highlights the beauty, elegance and strangeness of insect societies featuring Pulitzer Prize-winning authors and scientists Bert Hölldobler and Edward O. Wilson and the book launch of "The Superorganism" at 6:30 p.m., Nov. 5, at the Desert Botanical Garden in Phoenix.

Anyone who recognizes the persistent buzz of bees during spring bloom, who has had their picnic overrun by ants or who has heard the munching sounds of thousands of termites turning their floor joists to dust knows that social insects play a dominant – if often unrecognized – role in terrestrial ecology.

What makes these insect collectives tick? That question has held ASU professor Hölldobler and Harvard University professor emeritus Wilson entranced for nearly a half a century.

As the authors express it, it is the insects' astounding evolutionary success based on their remarkable systems of division of labor (involving hundreds and thousands of individual organisms) that never ceases to inspire.

"If alien scientists had landed to study the Earth's pre-human biosphere, one of their first projects would have been to set up beehives and ant farms," Hölldobler says. "This is our biased guess, of course, because we have been fascinated by the social insects – and in particular, by the ants – during our entire scientific lives."

"The Superorganism" is their first major collaboration since the publication of the Pulitzer Prize-winning "The Ants." In the new book, Hölldobler and Wilson share their passion, as well as a brilliant new look at social evolution and the remarkable growth of knowledge concerning the social insects during the past two decades.

Hölldobler believes that one of the most exciting frontiers in biology is "the exploration of these insects' remarkable behaviors, and tracking down what makes so many individuals work in synchrony, as a single, highly integrated superorganism."

Hölldobler is a key member of the Center for Social Dynamics and Complexity in ASU's College of Liberal Arts and Sciences, which focuses on developing understanding of the roots of such interactions in multiple systems, from ants to humans to computer networks.

"The Superorganism" is filled with details, such as:

- How foraging workers of honeybees and ants communicate and direct nest mates to distant food sources.
- How workers of *Diacamma* species conduct dominance fights and mutilations to regulate reproduction within the colony.
- How a queen of an *Atta* ant colony can live more than a decade and produce as many as 150 million daughters.

Roughly 13,000 species of ants have been described, Hölldobler says, and another estimated 17,000 still elude discovery. With hundreds of different forms, habits, lifestyles and quirks, ants are among the most fascinating creatures on the planet, from the tiny *Temnothorax* species – long-lived and gregarious, whose entire colony can fit in a nutshell – to the intricate activity of nature's underground farmers, the leafcutter ants.

Earth's "ultimate superorganisms," are how Hölldobler characterizes leaf-cutters, with their sophisticated communication, elaborate caste system, air-conditioned nest architecture, and populations in the millions, rivaled only by the great colonies of the African driver ants. Hölldobler and Wilson's portrait of driver ants is not far removed from Hollywood's killer colonies in "Indiana Jones and the Kingdom of the Crystal Skull."

"Viewed from afar, a huge raiding column of a driver ant colony seems like a single living entity, a giant amoeba spread-



Pulitzer Prize-winning authors and scientists Bert Hölldobler, left, and Edward O. Wilson will launch their new book, "The Superorganism," at 6:30 p.m., Nov. 5, at the Desert Botanical Garden in Phoenix.

ing across 70 meters of ground." Hölldobler says. "A close look reveals a mass of several million workers; a river of aggressive huntresses, capturing and killing most of the insects in its path."

Superorganisms, those self-organized entities that emerge from countless interactions of hundreds, thousands or millions of individuals tightly knit by altruistic cooperation, complex communication and division of labor, find their highest expression in the insects, Hölldobler says. And while the idea of the collective is not new, it is gaining impetus and understanding as scientists such as Hölldobler and Wilson open up for view a part of the living world previously seen by very few.

By examining ants, bees, wasps, termites and other species, biologists can now trace the evolution of superorganisms in exacting detail, all the way from their antecedents among solitary species to the origin of the most complex forms.

Hölldobler and Wilson offer a rich history, a set of experiences and a knowledge base that allows an early look at one of the major transitions of life, which proceeds from molecule through cell to organism, superorganism and population – and, finally, to ecosystem.

"Social insects play a very important role in almost all land ecosystems," Hölldobler says. "The nature of our planet without ants, bees or termites would look very different. The tremendous ecological success of these social insects, whose biomass is close to that of all humans, is certainly due to their elaborate systems of division of labor and complex social organizations."

"The Superorganism" book launch is one of a series of events leading up to ASU's celebration of the 200th anniversary of Charles Darwin's publication of "On the Origin of Species." The celebration, coined "ASU Darwinfest," is a fresh look at the intellectual and translational products that have arisen as a result of the founding of evolutionary theory. More information can be found online at <http://darwinfest.asu.edu>.

"The Superorganism" national book launch is free and open to the public, but seats are limited and reservations are required. For reservations, call (480) 727-8934 or send an e-mail to [margaret.coulombe@asu.edu](mailto:margaret.coulombe@asu.edu).

To reserve a first edition copy of "The Superorganism" (at a 20 percent discount), published by W.W. Norton, call Scott at the ASU Bookstore at (480) 965-4165. Books will be available for purchase and signing the night of the event.

Coulombe, with the School of Life Sciences, can be reached at (480) 727-8934 or [margaret.coulombe@asu.edu](mailto:margaret.coulombe@asu.edu).

## 'History Detectives' invites Pagán aboard as guest co-host

By Steve Des Georges

Eduardo Obregón Pagán, a professor of history and American Studies in ASU's New College of Interdisciplinary Arts and Sciences, is moving from the written page to the small screen, signing on as a guest co-host for the popular PBS series "History Detectives."

Pagán, who just two months ago claimed an Arizona Book Publishing Association Glyph Award for his coffee table-format book, "Historic Photos of Phoenix," will appear during the series' seventh season that begins in June and runs throughout the summer of 2009. For his first story, Pagán will trace the murky history of an unusual watch fob that is thought to commemorate Francisco "Pancho" Villa's reputed raid March 9, 1916, across the Mexican border into the town of Columbus, N.M.

The assignment has a touch of irony: Pagán's great-grandfather and grand-uncle rode with the Mexican revolutionary leader who is viewed by some to be a killer and a bandit, and by others as a folk hero – a latter-day Robin Hood who stole from the rich and gave to the poor.

"What I know about my great-grandfather and grand-uncle riding with Villa is not much, unfortunately," says Pagán, who received his master's and doctoral degrees in history from Princeton University after growing up, as he puts it, "in the shadows of Sun Devil Stadium," home to ASU's football team. "We do know that they were from Durango, where Villa was from, and we know that their home and property were destroyed by Zapatistas, which left them homeless for a while. At that point my great-grandfather and grand-uncle joined with Villa's forces. My great-grandfather died in 1918, and I can only guess that it was from war-related injuries, since the revolution continued for two more years after that."

Pagán has yet to see the watch fob in question and will not reveal the character of the story. He joins regular "History Detectives" sleuths Wes Cowan, Gwendolyn Wright, Elyse Luray and Tukufu Zuberi, who have crisscrossed the country during the show's six-year history, delving into legends, folklore and personal histories to discover potentially extraordinary objects in everyday American homes, cities and small towns.

Pagán's road to "History Detectives" began several years ago while working closely with Joseph Tovares at PBS affiliate WGBH in Boston. Tovares produced and directed the episode of "Zoot Suit Riots" that first aired on "American Experience" in 2002. Much of the information from the episode came from the research Pagán was conducting for his 2004 book, "Murder at the Sleepy Lagoon."

Tovares recommended Pagán to David Davis, vice president of national production for Oregon Public Television, when "History Detectives" began looking for a guest co-host. A test shoot was scheduled through the Phoenix Museum of History, and Pagán provided details on some of the historical artifacts in the museum's collection.

"To be sharing the love and fascination of history with a larger American audience is a tremendous privilege," says Pagán, an avid fan of "History Detectives" who often references the show in his classes. "The show is all about history methods. How do historians know what is accurate? One of the things that I enjoy about doing history is the process of discovery, and I think that's what comes across in 'History Detectives.'"

Pagán, who is the Bob Stump Endowed Professor of History at ASU's West campus, says Villa is a fascinating subject – and one he became familiar with while completing his master's studies in Latin-American history, with an emphasis on Mexico of the 20th century.

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## Regents' Professor Kaye describes recent teaching experience in China

By Janie Magruder

Community members took a walk in ASU Regents' Professor David Kaye's shoes Oct. 24, when he gave a presentation at the College of Law to an ASU Sneaker Tours group about his recent teaching experience at a university in China.

Kaye, a faculty fellow in the Center for the Study of Law, Science and Technology at the College of Law, showed the audience photographs of his trip to Nanjing and other Chinese cities and universities, and talked about living and teaching in China.

Since 1992, ASU has offered in-depth, interactive campus tours to familiarize community and business leaders or organizations with the university's education, research and outreach programs. Before arriving at the College of Law, the community members toured the new offices of ASU's Global Institute of Sustainability.

During the 2007-2008 academic year, Kaye was the Freeman Foundation Visiting Professor of American Law at the Hopkins-Nanjing Center for Chinese and American Studies in China, where he taught the courses "International Human Rights Law," "Philosophy and History of Law in the West," "The American Legal System," and "Science and Law."

The program is challenging for both Chinese students,



In ASU Regents' Professor David Kaye's presentation Oct. 24 to an ASU Sneaker Tours group, he described his recent teaching experience at a university in China.

who take courses from American teachers and must be fluent in English, and for American students, who must be fluent in Chinese, the native language of their teachers.

Law is a popular undergraduate degree in China, which is rebuilding its legal system quickly after its destruction during the country's cultural revolution from 1966 to 1976, under the late Communist leader Mao Zedong, Kaye says.

"Law schools were dismantled, universities were shut down, and students were sent to work in the fields," he says.

Kaye often received politically sensitive questions from his students, who solicited his opinions about subjects such as government corruption, freedom of speech and Mao.

"He was a great man, and yet he had great flaws," Kaye says.

In return, Kaye asked the students what they thought about the U.S. Department of State's condemnation of China for alleged human-rights violations.

"We discussed the official Chinese response, which is, 'Look at all the horrible things going on at the hands of Americans,' " he says. "But they also said that perhaps both (reports) are exaggerated."

Kaye says he was surprised that the cultural revolution isn't discussed by the Chinese, nor taught to many members of its youngest generation. He displayed a photo of a lush green field, where a university president and his wife had been tortured and killed by students during the revolution.

"And now it's just a field, with no marker," Kaye says.

This wasn't Kaye's first time teaching college students in China. In 2003, he was a Fulbright Professor at the Wuhan University law school in the province of Hubei, in central China.

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