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## Vote 2008

Arizona State University's KAET-Eight wants voters to be informed of their options. Before you vote, visit [www.azpbs.org/Vote2008](http://www.azpbs.org/Vote2008) for a breakdown of ballot propositions, clean election debates, printable sample ballots, resources for educators, and other election coverage by PBS & Horizon.

## Academic Bowl

The final matchups of the Academic Bowl's opening round saw the Herberger College leap ahead of the College of Teacher Education and Leadership, tallying a final score of 270 to 90; the Cronkite School succumb to the mighty University College with a final score of 260 to 65; the Fulton School of Engineering dominate the New College of Interdisciplinary Arts and Sciences 385 to 100; and the Morrison School of Management and Agribusiness pull ahead of the College of Nursing and Healthcare Innovation with a final score of 190 to 105.

From art to Greek history to the chemical composition of butter, the rapid and challenging questions of the first round tested each team's intellectual strength and endurance.

The display of Sun Devil pride was apparent in every corner of the room with parents, teachers, students and staff biting their nails in anticipation for the representatives of their respective colleges to harness all their brain cells in answering the toss-up questions correctly within the required five seconds.

If the rowdy and packed audience of this year's competition is any indication, then the Academic Bowl, currently in its third season, has become an increasingly popular university event – and the fight for the \$4,500 dollars in scholarship money has become even more ferocious.

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



TOM STORY PHOTO

**Greg Zeigler and Jill Cook of University College emerged victorious over the Cronkite School in the last opening round of the Academic Bowl.**

## National investment drives transportation research at ASU

By Joe Kullman

Dramatic changes in the ways that transportation systems in the United States are planned, designed and analyzed are expected to emerge from research at Arizona State University to be funded by recent grants from the Federal Highway Administration and the U.S. Department of Transportation.

Two grants totaling more than \$1.1 million will support the work led by Ram Pendyala, a professor of transportation systems in the Department of Civil and Environmental Engineering.

About \$800,000 will fund a project under the highway administration's Exploratory Advanced Research Program to make

advances in highway engineering and intermodal surface transportation planning.

With a \$300,000 grant from the transportation department, a new method for analyzing transportation systems will be used to evaluate one or more of the proposed light-rail system corridors in the Phoenix area.

Both projects "are aimed at advancing state-of-the-art methods and tools for modeling complex transportation systems and evaluating alternative transportation in-



Ram Pendyala

vestments in the future," says Pendyala.

"We are excited at the prospect of developing and applying integrated microsimulation models of land use and transportation that can make a real difference in transportation planning practice," he says. "These projects offer us the opportunity to showcase ASU's strengths in the urban systems modeling research arena."

The work for the highway administration involves research and development in high-risk, high-payoff projects that address technology and knowledge gaps. Pendyala's project, "Modeling the Urban Continuum in an Integrated Framework: Location Choice, Activity-Travel Behavior, and Dy-

(See GRANTS on page 7)



PHOTO COURTESY OF UNIVERSITY ARCHIVES

**A Viking-clad student rode off to ASU's Homecoming festivities in 1983 on his makeshift ship, complete with dragon prow and Pizza Hut stern.**

## Student-led enviro team greens 2008 Homecoming Block Party

By Natasha Karaczan

For the 50th anniversary of ASU's Homecoming, Undergraduate Student Government's "Green Team" will play a major role in the waste management and recycling of this year's Block Party.

The Green Team, which consists of student volunteers, aims to educate ASU's students, faculty, staff and community about what it means to go 'green' – as well as the need for better recycling practices. A major step in decreasing not only the amount of waste produced, but the carbon footprint of each individual on campus, will be discussed at the Block Party.

There will be several tents set up along University Drive with recycling bins for



paper, plastic, and aluminum. Bins for general waste will be provided alongside the recycling bins for non-recyclable materials. An information booth will be set up to provide answers to any questions people may have, as well as to educate them about

(See GREEN TEAM on page 7)

## ASU emphasizes its commitment to financial aid

By Sarah Auffret

In a time of economic instability nationwide, the university administration has assured students that it will continue its commitment to financial aid to assist them in funding their education.

ASU remains fully committed to its aid programs, particularly scholarship and grant programs. Student loan programs will continue uninterrupted also, according to Craig Fennell, executive director of student financial assistance.

Though some student loan providers have stopped making private student loans, ASU has good relationships with lenders and anticipates no changes in access or availability.

Federal loans account for about three-quarters of student borrowing. ASU participates in the federal Direct student loan program, which is provided directly by the U.S. Treasury. The government has said that money will flow uninterrupted by agreeing to buy those loans, even if fewer companies are in the business.

ASU President Michael Crow assured students in a videotaped message this week that they "are in one of the safest ports in a storm," with federally guaranteed student loans, Pell grants and university financial aid.

The university will award more than \$100 million in scholarships and grants this year, a substantial commitment to helping students succeed.

"These programs offer critically needed assistance in financing an ASU education," says Fennell. "We will continue to offer substantial scholarships and grants next

(See ASU UPHOLDS on page 7)

## Lindsay addresses challenges of personalized medicine

By Joseph Caspermeyer

In the not too distant future, scientists envision an age when going to the doctor for a routine checkup also includes getting the vital signs of one's genetic health. For every individual, obtaining his or her complete set of genetic information, called a genome, will become a key component to fulfilling the promise of personalized medicine.

Following the computer industry's mantra of "faster, cheaper, smaller," scientists are now in the midst of a research and development race to make an era of inexpensive, rapid DNA sequencing reality. Biodesign Institute biophysicist Stuart Lindsay is among a group of scientists pursuing a nanotechnology-based sequencing called nanopore sequencing. Lindsay, an ASU Regents' Professor and the Carson Chair in Physics and Chemistry, was among 25 authors contributing to a review article in the October issue of *Nature Biotechnology* outlining the current progress and potential of the technology.

The trends in innovation for DNA sequencing have paralleled those often seen in the adoption of new technology in computing

and electronics, where improved automation and miniaturization caused dramatic price drops. The price to sequence an individual genome has fallen from tens of millions to an estimated \$100,000. Now, several start-up companies and research teams are in hot pursuit of a breakthrough technology to make DNA sequencing a routine aspect of health care.

DNA sequencing has progressed from Nobel laureate Fred Sanger's original method in the early 1970s to more recent, massively parallel approaches that made possible the Human Genome Project and applications in diagnostic and forensic research. The techniques are time consuming and work with molecular scissors to chop the 3 billion chemical units of DNA that make up the genome into readable bits a few hundred units in length at a time,

(See LINDSAY on page 6)



Stuart Lindsay

## Management program ushers veterans into new service role

*ASU's Bob Ramsey Executive Education Program offers military veterans federally funded educational training*

By **Corey Schubert**

A new initiative of ASU's Bob Ramsey Executive Education Program is helping military veterans earn national recognition by becoming certified public managers.

Veterans can take courses in the certificate program using funds from Department of Veterans Affairs educational entitlements. The certified public manager program, or CPM, prepares professionals to make decisions that could impact communities for decades.

"This program makes it easier for veterans to continue their vital role of service to the nation by learning new skills they can use to enhance their career," says Catherine Eden, director of the Ramsey Program. "They can make dramatic improvements in the areas of budgets, taxes, transportation, housing, education, labor and the environment, or wherever their public career takes them."

Public managers are becoming increasingly important, as experienced public administrators of the baby boomer generation are nearing retirement, and fewer younger professionals than ever before are prepared to fill their shoes.

"I thought the CPM program was a great educational experience," says retired Air National Guard Tech. Sgt. Leonard Montanaro, deputy court administrator for the city of Mesa. "It is totally focused on government and serving the public. All of the instructors are professionals in their respective fields and actually lived the experience, not just studied it."

"For example, when we studied politics, a former council member from Fountain Hills, Ariz., taught the class. Another example is the ethics class that was taught by a Phoenix police commander who focused on ethics for public officials and police officers. All of our scenarios were real life."

"The learning experience is on the level of a master's program when it comes to the knowledge transferred, the discussions and presentations required to complete the program," Montanaro says. "I was not only impressed by the program, I was very impressed with the participants in the class. The CPM program is a great educational opportunity."

Participants in the program include public managers, executives and elected officials from international, federal, state, county, municipal and tribal governments.

"The emphasis is on practical education," says Eden, who previously served as director of the Arizona Department of Health Services and as a member of the Arizona House of Representatives. "We prepare people to take on new responsibilities and to be strong, ethical professionals so they can best represent the people they serve."

ASU's Ramsey Program has graduated nearly 12,000 students from its executive education courses since it began 25 years ago. The CPM course is just one of the outstanding programs it offers.

The course gives managers the ability to take some time away from their everyday work environments to gain a better view of where they fit in the larger scheme of public administration, she says.

Participants learn to create partnerships and improve communication with other agencies, and better understand the various pressures elected officials face during the decision-making process. They develop skills to explain to officials why certain issues should be considered a high priority.

The courses are available online or in the classroom at the ASU Mercado building in Downtown Phoenix.

For information, visit the Web site <http://ramseyexecutive.asu.edu> or call (602) 496-1303.

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## Text-message plan keeps ASU alert

No one wants to think about an emergency happening at their school.

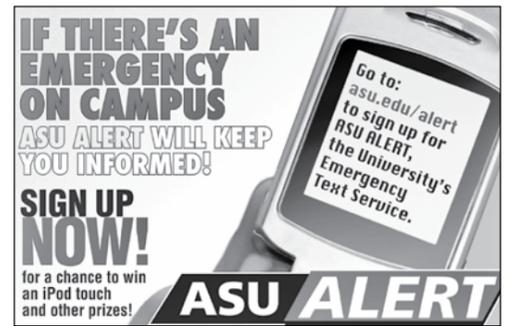
But, if an emergency does occur at Arizona State University, students, faculty and staff who subscribe to the university's emergency text-message alert system can find out about the incident.

"The safety and security of students, faculty and staff is the highest priority at ASU," says Paul Ward, vice president for university administration and general counsel, and ASU's chief emergency policy executive. "We're working to sign up more people in the ASU community to the emergency text-message alert system so they can receive valuable information during an emergency."

Text messages that are sent in case of an emergency spell out specific safety information or instructions. Having this information enables individuals to take appropriate action if needed.

The ASU Alert: Emergency Text Service system is an opt-in service that is used only in the case of a major emergency on one of ASU's campuses or in the immediate vicinity. To sign up for the emergency text message alert system, go to [www.asu.edu/alert](http://www.asu.edu/alert). An ASURITE ID and password is needed to sign up.

ASU recently joined forces with e2Campus, the provider of ASU's emergency text-messaging alert service that is utilized by other schools across the nation. Text message charges may apply depending



on individual cell phone plans.

Depending on the nature of the emergency, text messaging may be utilized in conjunction with other communication tools, such as ASU Police crime alerts, media alerts, ASU and myASU Web pages, campus televisions, reverse 911 calls, in-person contact, and ASU's emergency information hotline.

ASU students, faculty and staff who signed up with the previous text-message alert system that was introduced last year have been automatically transferred to e2Campus so they will receive a text in case of an emergency.

For a comprehensive look at ASU's emergency plans, go to the university's Web site at [www.asu.edu/emergency](http://www.asu.edu/emergency).



### Everyday heroism

**Valley View Elementary first-graders recently took a field trip to the University Center on the Downtown Phoenix campus to lend a hand to the Arizona Student Vote Coalition. Dressed as superheroes, the elementary school students helped register ASU students to vote in the 2008 presidential election.**

## Law school to host panel on judicial merit

By **Jane Magruder**

The process by which judges are chosen in Arizona is the topic of a panel to take place Nov. 4 at ASU's Sandra Day O'Connor College of Law.

"Becoming a Judge: The Ins and Outs of Judicial Merit Selection in Arizona" also will include information on the requirements and procedures for students who might be interested in future careers on the bench. The event will begin with a noon lunch in the college's Rotunda, followed by the program from 1 to 3 p.m. in the Great Hall in Armstrong Hall.

Panelists include Arizona Supreme Court justices Andrew Hurwitz and Michael Ryan; judge Pat Orozco of the Arizona Court of Appeals, Division One; Maricopa County Superior Court judges Sally Duncan and Lisa Daniel Flores; John Leavitt, a public member of the Commission on Appellate Court Appointments; and Mike Leal, a lawyer member of the Maricopa County Commission on Trial Court Appointments.

The program is sponsored by the Arizona Supreme Court Subcommittee on Recruitment of the Commissions on Appellate and Trial Court Appointments. The subcommittee was established by the Arizona Supreme Court to "examine issues and pursue activities relevant to the recruitment of a diverse applicant pool reflective of the gender, ethnic, racial, geographic and political diversity of Arizona," says member Helene Fenlon, a Phoenix attorney.

The group has considerable work to do, given that just 9 percent of judges appointed during fiscal year 2007-2008 in Arizona's appellate and trial courts that use the merit selection system are minorities, according to the judicial nominating commission. In Maricopa County, male judges

appointed to the bench that same fiscal year outpaced females by nearly 3-1. Part of the problem, Fenlon says, is that the pool of minority and women applicants is too small.

"It's so important that Arizona's bench reflects the gender, ethnic, geographic and political diversity of this state because, otherwise, citizens don't have confidence in the system," she says. "The bench is strongest when it is able to draw upon the diverse life experiences of its members. So we want to reach out to well-qualified people who might not otherwise apply, and that includes students."

"A lot of students don't think about being a judge when they're in law school. Consequently, they may not know what the requirements are to become a judge, and they may not realize that what they did in law school, their grades, the experience they got, being involved in the community, how they interacted with peers, are part of those qualifications."

The panelists will talk about the concept of merit selection, in which nonpartisan commissions comprising attorneys and members of the public investigate and evaluate applicants and make recommendations to the governor for appointments. The event also will give students a chance to mingle with judges, attorneys and their future peers in the Bar, Fenlon says.

The free networking lunch, sponsored by Lewis and Roca, is open to the first 100 law students and members of the State Bar of Arizona who register by e-mailing [JDiamond@LRLaw.com](mailto:JDiamond@LRLaw.com). Registering for the program also is suggested.

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## ASU Insight

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

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## ASU Mars instrument gets new lease on life

By Robert Burnham

A six-minute rocket firing Sept. 30 has put NASA's Mars Odyssey spacecraft on track for a new orbit around the Red Planet.

The maneuver, part of a two-year extension for the mission, will give an ASU-operated instrument carried on Odyssey greater sensitivity for mapping Martian minerals.

The instrument is the Thermal Emission Imaging System (THEMIS), a multiple-band, heat-sensing camera operated by ASU's Mars Space Flight Facility.

"The orbital change lets THEMIS operate at its maximum potential," says Philip Christensen of ASU's School of Earth and Space Exploration, part of the College of Liberal Arts and Sciences. "In the months to come, we expect to see a steady increase in the camera's ability to detect and map minerals on the planet's surface."

Christensen designed THEMIS and is the instrument's principal investigator.

Odyssey's orbit is synchronized with the Sun. For the five years before the Sept. 30 orbital maneuver, the local solar time on Mars was about 5 p.m. wherever the spacecraft was flying over as it made its dozen passes a day moving from north to south. Similarly, the local time was 5 a.m. under the spacecraft as it flew the south-to-north leg of each orbit.

The push from the Sept. 30 maneuver gradually will change that synchronization over the next year or so. Its effect is that the time of day on the ground when

Odyssey passes overhead is now getting earlier by about 20 seconds per day. A follow-up maneuver, probably in late 2009 when the overpass time is between 2:30 and 3 p.m., will end the drift toward earlier times of day.

The 5 p.m. and 5 a.m. orbit was a compromise between THEMIS and the three-instrument Gamma Ray Spectrometer suite. For THEMIS, the timing was usable but not optimal, while one of the GRS instruments, the gamma-ray detector, needed a late-afternoon orbit to avoid overheating.

The Gamma Ray Spectrometer suite provided dramatic discoveries of water ice near the surface throughout most of high-latitude Mars, and it provided the impetus for NASA's Phoenix Mars Lander mission. The gamma ray detector also has mapped the global distribution of many elements, such as iron, silicon and potassium. This was a high science priority for the first and second extensions of the Odyssey mission.

A panel of planetary scientists assembled by NASA recommended this year that Odyssey make the orbit change to get the best science return from the mission in coming years. The change will require shutting down the GRS' gamma-ray detector, while leaving the suite's neutron spectrometer and high-energy neutron detector in operation.

For THEMIS, the shift to a mid-afternoon orbit will boost its science data return. THEMIS works better when day-night temperature contrasts are stronger,

which is the natural outcome of orbital passes earlier in the day.

In addition, Odyssey's science team plans to begin occasionally aiming THEMIS away from the straight-down pointing used throughout the mission so far. This will allow THEMIS to fill in some gaps in earlier mapping. It also will permit the creation of some stereo, three-dimensional imaging.

When Odyssey began mapping Mars, the spacecraft had a 4 p.m. orbit. Then mission controllers deliberately let the orbit drift over the course of about a year to the 5 p.m. time so that the GRS instrument could operate.

But, as Christensen explains, "many of THEMIS' most significant scientific results have come from data collected during the first six months after we arrived at Mars in late 2001."

One important finding based on such early-mission THEMIS data was the recently announced discovery of chloride mineral deposits in the ancient southern highlands. These deposits – salt beds – are possible relics of a warmer and wetter epoch on Mars. Because salt beds are effective at preserving biological traces, scientists would like to examine these to determine what they can say about a Martian biosphere, past or present.

"It'll be good to get back to an orbit where THEMIS works better," Christensen says.

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## British ambassador marked international lecture series

Sir Nigel Sheinwald, British ambassador to the United States, kicked off the ASU Global Distinguished International Lecture Series Sept. 29 in front of a packed auditorium at the Biodesign Institute on the Tempe campus.

Sheinwald, who joined the diplomatic service in 1976 and has served in Brussels, Washington and Moscow, talked about the special relationship between the United States and United Kingdom and current events including the ongoing global financial crisis. Then he took questions from the audience.

"We were pleased to have a full house for the first of our 2008-2009 lectures," says Dawn Kallestad, director of the Office of the Vice President for Global Engagement, which sponsors the series. "Sir Nigel's talk and interaction with the audience underscore the interest in global engagement at ASU, as well as the growing importance of ASU as a venue for international perspectives."



Sir Nigel Sheinwald

The lecture series, in its second year, is organized by Kallestad and designed to promote global awareness and offer local opportunities for students and other members of the greater ASU community to engage with internationally known speakers on world issues.

"This is an excellent series," says Anthony "Bud" Rock, ASU vice president for global engagement. Recalling a talk during last year's series by Under Secretary of State Paula Dobriansky that focused on the environment, human trafficking and Sir Nigel's timely presentation, Rock says, "This series both brings the world to ASU and focuses on some of the most pressing global challenges, giving our community access to the people who are out there actively addressing those challenges. In a very real way, these are the individuals who are helping shape our collective future and the world in which all of us will live."

Planning for future events is underway. The lectures are open to the public and receive additional support from Barrett, the Honors College.

To view a video of Sir Nigel Sheinwald's presentation, go to: <http://asunews.asu.edu/sheinwald>.

## Federal grant funds DNA testing research at law college

By Jane Magruder

The Arizona Justice Project and the Arizona Attorney General's Office have been awarded a \$1.4 million grant from the U.S. Justice Department through its National Institute of Justice. The grant will be used for post-conviction DNA testing in cases of forcible rape, murder and non-negligent manslaughter to demonstrate actual innocence.

Under this grant, Arizona could become one of the first states in America to systematically and categorically identify inmates in which DNA might resolve questions about actual innocence, and then conduct the needed testing.

"This grant affords us a very exciting opportunity," says Carrie Sperling, executive director of the Arizona Justice Project and a professor at the Sandra Day O'Connor College of Law at Arizona State University, where the project is housed. "This is a huge and important undertaking and the opportunity to collaborate with all of the relevant agencies in the state is very exciting."

Over the next 18 months, the Arizona Justice Project will identify and evaluate potential cases and, with the help of the Attorney General's Office, will secure the relevant biological evidence and the necessary files.

Attorney General Terry Goddard says the grant will help make sure the right people are convicted.

"DNA testing is a powerful tool that benefits all involved in our criminal justice system, especially victims," says Goddard. "This grant enables my office to support local prosecutors and ensure that those who have committed violent crimes are identified and behind bars."

The Arizona Justice Project and the Attorney General's Office will work with Arizona's crime labs – both public and private – under the grant administration of the Arizona Criminal Justice Commission.

Arizona's crime laboratories will make their resources available both for examination of samples and for conducting comparison testing through the national database of DNA profiles. Several private laboratories also have been identified to assist in the collaborative effort, including the Chromosomal Laboratories located in Phoenix.

The project also will use private investigators through the Arizona Association of Licensed Private Investigators.

The project will continue with its criminal justice endeavors and case evaluations in many other areas.

"We look forward to devoting special

attention to this undertaking and the partnership with Arizona's law enforcement and forensic communities," says Sperling.

More than 200 exonerations in the United States have resulted from DNA evidence, two of them in Arizona. Most of these exoneration cases are brought forward by inmates through private attorneys or non-profit organizations, such as the national Innocence Project or state organizations such as the Arizona Justice Project. The principals of this grant-funded post-conviction DNA project will document the processes with the goal of making this a best practice to be replicated in other states that allow for post-conviction DNA testing.

The Arizona Justice Project, an innocence project, is now in its 11th year and is now centered at the College of Law, which enjoys a national reputation as a center for the study of forensic science and DNA research and evaluation. For many years the Project also worked in concert with the James E. Rogers College of Law at the University of Arizona and with the Northern Arizona University Justice Project.

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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.

Countless federal records are being lost to history because federal employees, dealing with a growth in electronic records, don't regularly preserve the documents they create on government computers, send by e-mail and post on the Web.

Businesses and state and local governments face similar problems, on a smaller scale. "We are overwhelmed by the challenge of preserving digital information," says **Robert P. Spindler**, chief archivist at ASU Libraries. *New York Times*, Sept. 13.

A new type of LED-bulbs is offering a long bulb life without the mercury risk. **Ghassan Jabbour**, director of ASU's Advanced Photovoltaics Center says that LED-light bulb technology is teetering on the cusp of greatness. "I, myself, like the LED bulb from the conscience point of energy savings," Jabbour says. *Phoenix Business Journal*, Sept. 26.

An Arizona law that prohibits employers from knowingly hiring illegal immigrants is facing a possible overhaul before any businesses have even been called into court for alleged violations. Recent poll results don't bode well for opponents of the ballot measure. An ASU survey found that nearly two-thirds of voters supported it. "I don't think the average guy we are polling out there has that much information about it," says **Bruce Merrill**, emeritus faculty. "They basically see it as a bill that's trying to do something about immigration," Merrill says. *San Diego Union-Tribune*, Oct. 13.

**Kelly McDonald**, assistant professor of communications, says of the third presidential debate: "Despite the intimate setting, there were some very sharp and direct points of confrontation with the candidates' ideas, policies and personalities. It's the strongest show for McCain. His intensity shone tonight in ways we had not seen before." Still, in terms of "policy analysis" and "the clash of ideas and vision," Obama carried the day, McDonald says. *Arizona Republic*, Oct. 16.

According to a report by an investment research and advisory firm, a wave of bad credit is heading toward Wall Street, prompting more investor panic. A prolonged recession and accompanying job losses likely will precipitate more credit card defaults as consumers find themselves without the income necessary to stay afloat, says **Dennis Hoffman**, economics professor. "There is a fragile situation, but it is sustainable as long as the jobs are sustainable," he says. *East Valley Tribune*, Oct. 18.



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

### Friday, Oct. 24

**"Jesus and Science,"** 7:30 p.m., Murdock Lecture Hall (MUR) room 101. Speaker: genomics and cancer researcher Michael Berens. Sponsored by Veritas Forum. Information: (480) 968-3663.

### Monday, Oct. 27

**"Emerging 21st Century Urban Water Management Paradigm,"** 3–4 p.m., Bionodesign Institute Auditorium. Speaker: Glen Daigam, senior vice president and chief technology officer, CH2M HILL, Englewood, Col. Sponsored by Bionodesign Institute Center for Environmental Biotechnology. Information: (480) 727-0370.

**"Intracellular Calcium Signaling in Mouse Eggs,"** 4:40 p.m., LS E-104. Speaker: ASU graduate student Brian Koeneman. Sponsored by School of Life Sciences. Information: (480) 965-2705.

### Wednesday, Oct. 29

**Technology Innovation Lecture**, 11:30 a.m.–1 p.m., Union Cooley Ballroom A, Polytechnic campus. Speaker: Paul J. Grabill, director of engineering, U-Haul International, Tempe. Grabill will discuss the design development and testing of U-Haul trucks and trailers. Sponsored by Advanced Technology Innovation Center; co-sponsored by College of Technology and Innovation and supported in part through the Entrepreneurship at ASU Initiative. Information: (480) 727-1647 or [atic@asu.edu](mailto:atic@asu.edu).

**"Live Cell Imaging and Tracking of HIV-1 Transfer Between Cells,"** 3:40 p.m., Barry M. Goldwater Center (GWC) room 487. Speaker: Thomas Huser, University of California-Davis. Refreshments at 3:30 p.m. Sponsored by Center for Biological Physics. Information: (480) 965-4073.

**"Seismic Waveform Tomography at the Global and Continental Scale: Inferences on Mantle Dynamics,"** 4:10–5 p.m., Bateman Physical Sciences Center (PS) F-101. Speaker: Barbara Romanowicz, University of California, Berkeley. Sponsored by the School of Earth and Space Exploration. Refreshments served at 3:45 p.m. in PS F-lobby. Information: (480) 965-5081.

**Lecture/Q&A with Judith L. Sensibar**, 4:45–5:45 p.m., Piper Writers House (PWH) Seminar Room. Sensibar is the author of "Faulkner and Love: The Women Who Shaped His Art," a new ground-breaking biography of William Faulkner. (Note: this is part of ENG 636, but guests are welcome.) Sponsored by Department of English. Information: (480) 965-7611.

**"In Praise of Impurity: Universal Values Versus Geoaesthetics in Contemporary Art,"** 7 p.m., Bentley Projects, 215 E. Grant St., Phoenix. Speaker: museum curator and director David Elliott, who has worked in England, Sweden and Turkey and will direct the Sydney Biennale in Australia in 2010. Sponsored by F.A.R. (Future Arts Research) @ASU. Information: (602) 258-1852.

**"The World Without Us,"** 7 p.m., MUR room 101. Speaker: Alan Weisman, author of "The World Without Us." Book-signing follows lecture. Presented by the Wrigley Lecture Series on Sustainability; co-hosted by Barrett, the Honors College and Integrative Graduate Education and Research Training (IGERT) in Urban Ecology. Information: (480) 965-2975 or <http://sustainability.asu.edu>.

### Thursday, Oct. 30

**Physics Colloquium**, 4 p.m., PS F-123. Speaker: Joshua Erlich, College of William and Mary. Sponsored by Department of Physics. Information: (480) 965-9075.

**"Coevolutionary Ecology of Leafcutter Ants,"** 4 p.m., Interdisciplinary Science and Technology Building 1 (ISTB) room 401. Speaker: Ulrich Mueller, University of Texas, Austin. Sponsored by School of Life Sciences. Information: (480) 965-965-2705.

**Bioethics Film Series**, 5:40–8:30 p.m., LS E-104. The

film "The Diving Bell and the Butterfly" will be shown. Elle France editor Jean-Dominique Bauby, who, in 1995 at the age of 43, suffered a stroke that paralyzed his entire body, except his left eye. Using that eye to blink out his memoir, Bauby eloquently described the aspects of his interior world, from the psychological torment of being trapped inside his body to his imagined stories from lands he'd only visited in his mind. MPAA Rating: R. Discussion follows film. Information: (480) 965-8927.

### Friday, Oct. 31

**"The Presidential Campaign and the Media, Old and New,"** 10–11:30 a.m., Student Union Cooley Ballroom A, Polytechnic campus. Presented by Steven Elliott, founding director of ASU's Cronkite News Service's print journalism program. Sponsored by Osher Lifelong Learning Institute. R.S.V.P.: (480) 727-1153 or [lois.lorenz@asu.edu](mailto:lois.lorenz@asu.edu).

**"Towards Synthetic Biology: Functional de Novo Proteins from a Designed Artificial Proteome and "Alzheimer's Disease: Molecular Underpinnings and the Search for New Therapeutics,"** noon, PS H-151. Speaker: Michael Hecht, Department of Chemistry, Princeton University. Sponsored by Department of Chemistry and Biochemistry. Information: (480) 965-2093.

**"Biodiversity and Global Warming: Will Triage be Needed?"** 2–3 p.m., LS E-104. Speaker: Terry Root, Stanford University. Sponsored by School of Life Sciences. Information: (480) 965-2705.

**"Reduced Order Models in Unsteady Aerodynamic Models, Aeroelasticity and Molecular Dynamics,"** 2–3 p.m., PS H-153. Speaker: Vadim Shapiro, University of Wisconsin-Madison. Sponsored by Mechanical and Aerospace Engineering Department. Information: (480) 727-0476.

### 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.

### 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 year-long creative enterprise that celebrates how bold ideas and great scientific minds bring change to our understanding of biodiversity, the planet, the universe and ourselves. Sponsored by the School of Life Sciences. Free but tickets required: (480) 350-2822. Limit of 4 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 CO2 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 the Global Institute of Sustainability. Information: (480) 965-9301.

**"Models of Eukaryotic Chemotaxis,"** 3:40 p.m., 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., 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, el-

egance and strangeness of insect societies" and sign their newest book "The Superorganism." Free and open to the public. Seats are limited. To reserve your tickets, contact: [margaret.coulombe@asu.edu](mailto:margaret.coulombe@asu.edu); (480) 727-8934. To reserve your first edition copy of "The Superorganism" (and save 20%), contact Scott at the ASU Bookstore (480-965-4165). Books will be distributed and signed on the night of the event.

### Thursday, Nov. 6

**"One Entrepreneur's Dream: Combat the #1 Cancer Killer with Disruptive 3D Cell Imaging Technology,"** 3–4 p.m., Bionodesign Institute Auditorium. Speaker: Alan Nelson, founder, chairman & CEO, VisionGate Inc., Gig Harbor, Wash. Part of the Bionodesign Institute Innovators Seminar Series. Information: (480) 727-9386.

**"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

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

## Conferences

### Saturday, Oct. 25

**Worldview Seminar**, 9 a.m.–12:30 p.m., Memorial Union (MU) Union Stage (lower level). Jon Rittenhouse, adjunct professor of apologetics, Biola University, will present the "top 20" questions raised against the Christian faith in today's culture. Sponsored by Veritas Forum. Information: (480) 968-3663.

## Miscellaneous

### Saturday, Oct. 25

**PBS Kids Raising Readers Family Literacy Showcase**, 9 a.m.–noon, Wesley Bolin Memorial Plaza, Phoenix. A community celebration to promote literacy for the youngest learners and their parents. Information: (480) 965-2823.

**Sun Devil Football Tailgate**, 5–7 p.m., University Club. Barbecue buffet. Cost: \$10 per person (includes soda or iced tea; beer is extra). Reservations: (480) 965-0700.

### Monday, Oct. 27

**"Classroom Assessment Techniques: Concept Mapping & Directed Paraphrasing,"** 12:15–1:30 p.m., Discovery Hall room 212. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

### Tuesday, Oct. 28

**ASU Retirees Association Fall Luncheon**, 11:30 a.m.–1:30 p.m., Karsten Golf Course Clubhouse, 1125 E. Rio Salado Parkway, Tempe. ASU Archivist Rob Spindler will speak on "The Long Road to Excellence: 123 Years of Arizona State University." Luncheon cost: \$26. Information: (480) 965-7668.

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

**"STAR in the Employment Interview,"** 3–4:30 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).

**"Let's Talk About It: Jewish Literature,"** 7 p.m., room C6A/East of Hayden Library. Tonight's discussion is on Bernard Malamud's "The Assistant." Information: Rachel Leket-Mor, (480) 965 2618.

### Wednesday, Oct. 29

**Blood Drive**, 8 a.m.–12:30 p.m., Carson Student-Athlete Center. Sponsored by Intercollegiate Athletics. To sign up, go to [www.bloodhero.com](http://www.bloodhero.com) (sponsor code is asu). Sponsored by Intercollegiate Athletics. Information: (480) 965-5788.

### Thursday, Oct. 30

**"Making the Most of the Grad School and Internship Fair,"** 4:30–5:30 p.m., SSV room 329. Sponsored by Career Services. Information: (480) 965-2350 or [www.asu.edu/career](http://www.asu.edu/career).

### Friday, Oct. 31

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

**"Of Metaethics and Motivation,"** 3 p.m., Coor Hall room 120. Speaker: Pamela Hieronymi, UCLA. Sponsored by De-

partment of Philosophy. Information: (480) 965-9860.

### ■ Saturday, Nov. 1

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

**Astronomy Open House**, 8–10 p.m., PS roof, H Wing (5th 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 & Student Generated Test Questions,"** 12:15–1:30 p.m., Discovery Hall room 212. Sponsored by the Center for Learning and Teaching Excellence. Information and registration: <http://clte.asu.edu>.

### ■ 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, 2nd 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: Resumes and Cover Letters That Get Results,"** 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).

### ■ Wednesday, Nov. 5

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

**"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., 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 worn-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.

## 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. 24

**Friday Conversations in the Gallery**, noon–1 p.m., ASU Art Museum. Collector Mikki Weithorn is the special guest. Information: (480) 965-2787.

**Emerging Artists Series**, 5 p.m., Dance Studio Theatre. Performing: Sara Malan-McDonald and Holly Woodridge. Also at 7:30 p.m., Oct. 25; 2 p.m., Oct. 26.\*

**ASU Choral Union and Symphony Orchestra**, 7:30 p.m., ASU Gammage. A program of American music, including Howard Hanson's "Song of Democracy."

**"Don Coyote,"** 7:30 p.m., Lyceum Theatre. Daniel S. Frey's story about an American Mexican coyote who run a successful human-smuggling business at the Arizona-Mexico border. But one day, 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. Also at 2 p.m., Oct. 26; 7:30 p.m., Oct. 30 and Nov. 1. Contains violence and strong language.\*

### ■ Saturday, Oct. 25

**"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. Also at 2 p.m., Oct. 26; 7:30 p.m., Oct. 30 and Nov. 1. Contains strong language.\*

**Women's and ASU Men's Choruses**, 7:30 p.m., First United Methodist Church of Tempe, 215 E. University Dr., Tempe. A program of folk-song-themed works.

**"Secrets of Gardenias,"** 7:30 p.m., Studio 133, Nelson Fine Arts Center. Part of the Festival of New Work. Also at 7:30 p.m., Oct. 29 and Oct. 31; 2 p.m., Nov. 2.\*

### ■ Sunday, Oct. 26

**Faculty artist Robert Mills**, 2:30 p.m., Katzin Concert Hall.\*

**"Oktoberfest,"** 3 p.m., ASU Kerr Cultural Center, Scottsdale. Presented by Duo West – cellist Ian Ginsburg and pianist Sherry Lenich. A program of music by German composers.\*\*

### ■ Monday, Oct. 27

**Studio 303 voice recital**, 7:30 p.m., Organ Hall.

### ■ Wednesday, Oct. 29

**The Tokyo String Quartet**, 7:30 p.m., Katzin Concert Hall. Free but tickets required: call the Herberger College Box Office at (480) 965-6447, beginning Oct. 8.

### ■ Thursday, Oct. 30

**"A (Sun) Devils Night Spectacular!"** 7:30 p.m., ASU Gammage. The ASU Wind Ensemble and Symphonic Chorus perform.\*

### ■ Saturday, Nov. 1

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

### ■ Sunday, Nov. 2

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

**Faculty artist Robert Barefield**, 7:30 p.m., Katzin Concert Hall. Barefield and friends will present an evening of art 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 perfor-

mance 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.

## Exhibitions

**The Galleria**—8 a.m.–6 p.m., Monday-Friday, located in Mercado Building C, 502 E. Monroe St., Phoenix. Information: (602) 496-1500.

Through Oct. 31, Lux Art Exhibition features student works selected for publication in the prestigious Lux, an undergraduate creative review published by students in Barrett, the Honors College. Works consist of oil on canvas, photography, charcoal on paper and many others.

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

Through Oct. 31, Fourth Annual Printmaking Student Association's Members' Show.

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

Opens Oct. 27, MFA thesis exhibition in photography by Takara Portis. Opening reception: Oct. 27, 7–9 p.m.

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

Through Nov. 7, "DISORIENTALISM" is a multimedia installation that studies the disorienting effects of technologized labor, junk culture and consumerism as forces that mediate bodies and instate body-knowledge, this exhibit features the work of faculty artist Marianne M. Kim and guest new-media artist Katherine Behar of New York. Utilizing live performance, video, sculpture and photographic projects, "DISORIENTALISM" is an ongoing effort to reverse-engineer our identities Information: (602) 543-ARTS.

**Museum of Anthropology**—11 a.m.–3 p.m., Monday–Friday, Cady and Tyler Malls. Information: (480) 965-6224.

Opens Oct. 27, "Ancient Ofrenda: Elements of the Altar" is presented in collaboration with CALACA Latino Cultural Arts Collective. For the past nine years, the museum has played host to a vibrant community-centered Día de los Muertos (Day of the Dead) Festival Exhibit. Traditionally, the museum has featured a gallery filled with individual altars. This year, the gallery will be transformed into one altar through individual works of art. Each piece of art in the exhibit will represent one of the many offerings that compose a traditional altar. Emphasis will be placed on the four elements (earth, wind, water and fire) found on traditional altars that tie this celebration to its Aztec roots.

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

Through Oct. 31, "Breathe, Eat, and Shelter," sculpture by Jessica Nahom.

Opens Nov. 3, "Threads and Pixels – A Digital Fibers Exhibition," by digital fibers students. Opening reception: Nov. 3, 7–9 p.m.

## Defenses

**Omar Ahumada Valenzuela**, PhD, Ind. Engr., 9 a.m., Oct. 24, GWC 510.

**JingJing Xu**, PhD, Comp. Sci., noon, Oct. 27, BYENG 455.

**Daniel Alvarez Vega**, PhD, Elec. Engr., 2 p.m., Oct. 27, ERC 490.

**Kimberly Lansdowne**, PhD, Curr. and Instr. (Spec. Ed.), 2 p.m., Oct. 29, ED 425.

**Sarah Fedirka**, PhD, Engl., 10 a.m., Oct. 30, LL 316.

**Hilary Smith**, PhD, Jus. Std., 2:30 p.m., Oct. 30, WLSN 255.

**Katrina Lacey**, PhD, Theat. (Theat. For Yth.), 2:45 p.m., Oct. 30, GHALL 116D.

## Diversity Awareness Week to engage ASU community

ASU promotes understanding of and responsiveness to diversity in many arenas.

The Campus Environment Team invites faculty, staff, students and the community to learn about accessibility, diversity and disability issues through theatre performances, film, structured dialogue, library and bookstore displays at this year's Accessibility and Diversity Awareness Week Oct. 27–30.

The team aims to engage the ASU community on disability issues through a resource fair, classroom presentations, concerts and a sporting event to take place throughout the week.

To view a schedule of activities, please visit the Campus Environment Team Web site: [www.asu.edu/cet](http://www.asu.edu/cet).

## Lindsay, team aim to reduce cost and speed of human genome sequencing

(Continued from page 1)

using a computer to finally reassemble the full genome sequence.

In concept, nanopore-based DNA sequencing is a bit like sewing with DNA as the thread, passing through a nanopore like the eye of the needle. Scientists use an electric current to thread the DNA through the nanopore hole.

"One of the most compelling advantages of nanopore sequencing is the prospect of inexpensive sample preparation requiring minimal chemistries or enzyme-dependent amplification," the authors state. "Thus, the costs of nanopore sequencing... are projected to be far lower than ensemble sequencing by the Sanger method, or any of the recently commercialized massively parallel approaches."

Nanopore sequencing has the potential to provide a breakthrough in DNA sequencing by reading lengths of DNA up to 50,000 bases in length, and without the need for dyes, sample processing and other materials that contribute to the current costs.

Lindsay and his team, including research professors Jin He and Peiming Zhang, are undertaking a collective approach incorporating many complementary elements that integrate biochemistry, chemistry and physics with nanotechnology to develop a radical strategy to break through the DNA sequencing cost bottleneck.

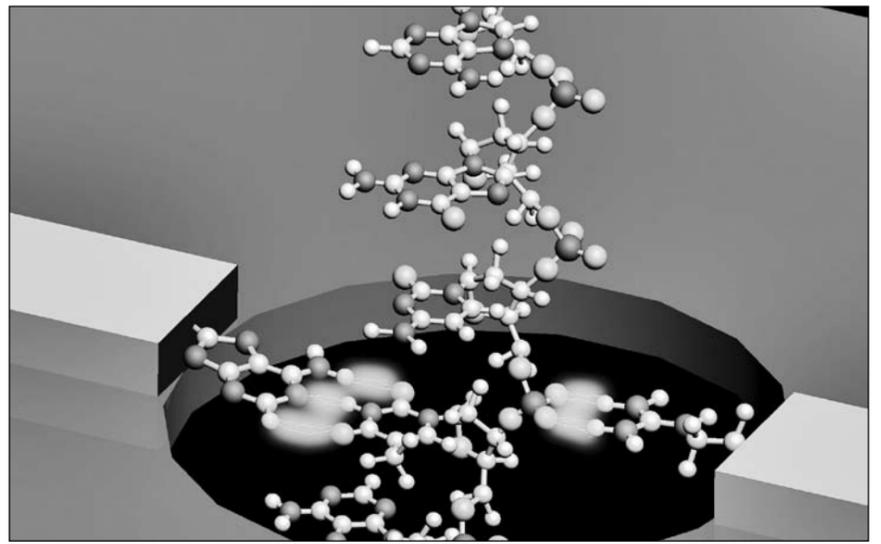
Lindsay's variation of the theme, called "sequencing by recognition," involves using nanostructures to read the electrical current

through DNA bases, thereby identifying the sequence (see figure). In concept, Lindsay's solution would work somewhat like a supermarket scanner – only shrunk down to the nanoscale – to read genomic DNA at a speed of hundreds to thousands of bases per second. It involves using nanostructures to read the electrical current through DNA bases, thereby identifying the sequence.

In their approach, DNA is passed through a tiny hole, a nanopore, and past a 'reader,' which recognizes one of the four DNA bases. Combining the readouts from four different DNA readers would assemble the full DNA sequence. If successful, during the second stage of the project Lindsay's team plans to develop a preliminary prototype of a high-speed DNA reader.

The ultimate goal of nanopore DNA sequencing is to reduce the cost and speed of sequencing the human genome to \$1,000 and in 24 hours. Nanopore DNA sequencing has much potential, but still faces formidable challenges before progressing from the research lab into industry.

The authors of the *Nature Biotechnology* review state: "There is little doubt that the accelerating rate of discovery in the field of nano-scale electronics and the proven ability of the electronics community to develop mass-production strategies for high-value components will be able to master the nano-scale science required to fabricate massive nanopore arrays. But until such time as nanopore sequencing in any form is shown to be feasible and valuable, nanopore sequenc-



**A nanopore reader with chemically functionalized probes. Lindsay's approach has the potential to sequence DNA at a speed of hundreds to thousands of bases per second. It involves using nanostructures to read the electrical current through DNA bases, thereby identifying the sequence. Figure courtesy of Hao Liu, Biodesign Institute.**

ing researchers face the challenge of using only research-scale facilities rather than those that are to be found, or could be developed, in a specialized, mass-production plant."

To help hedge their bets, Lindsay's DNA sequencing effort is among several approaches being pursued at ASU. Lindsay also collaborates with two other ASU research teams, led by Biodesign's Peiming Zhang and colleague Jian Gu, and Peter Williams from

the School of Life Sciences. Together, they have nearly \$3.5 million in next generation DNA sequencing projects funded by the National Human Genome Research Institute, a branch of the National Institutes of Health.

To read the *Nature Biotechnology* review, go to: <http://www.nature.com/nbt/journal/v26/n10/pdf/nbt.1495.pdf>.

Caspermeyer, with the Biodesign Institute, can be reached at [joseph.caspermeyer@asu.edu](mailto:joseph.caspermeyer@asu.edu).

## In BRIEF

### Collegiate Learning Assessment academy set

ASU will conduct a Collegiate Learning Assessment (CLA) in the Classroom Academy Nov. 6-7. It is a faculty workshop focused on teaching, learning and assessment.

The CLA in the Classroom Academy, assisted by the Council for Aid to Education (CAE) and sponsored by the Office of the Executive Vice President and Provost of the University, is a two-day intensive workshop focused on curricular and pedagogical work that complements assessment practices across the university.

ASU first-year students are participating in the assessment developed by CAE. The CLA is an assessment program that measures how an institution as a whole contributes to learning and student intellectual development. Students are assessed on important measures such as critical thinking, analytic reasoning, problem solving and written communication skills based on their responses to real-world tasks.

The CLA in the Classroom Academy provides an opportunity for faculty members to create performance tasks for assessing students' skills in critical thinking, analytic reasoning, problem-solving and written communication.

The workshop is designed to benefit faculty who serve on curriculum and assessment committees, or who are interested in assessing their students' critical thinking skills.

A limited number of registrations are still available. To register, send an e-mail to [oue@asu.edu](mailto:oue@asu.edu) by the Oct. 29 deadline.

For more information, visit the Web site [www.claintheclassroom.org/about](http://www.claintheclassroom.org/about) or contact Shelly Potts at (480) 965-9291.

### Eight event celebrates family literacy

Meet PBS Kids characters: Martha (Martha Speaks), Wonder Red (Super Why!), Dog (Word World), PBS Kids host Mr. Steve, and players from the Arizona Diamondbacks and Phoenix Mercury at Family Literacy Celebration Day on Saturday, Oct. 25 from 9 a.m. to noon at Wesley Bolin Memorial Plaza, 1700 W. Washington Street.

More than 20 information booths from government departments, community organizations, area agencies and local early childhood program partners with hands-on literacy activities will be present. Books, stickers and coloring pages will be offered to kids at this free family event. Free parking is available. For more information: <http://www.azpbs.org>.

### Play commemorates law school name

A one-woman play 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, will debut at 7:30 p.m. on Nov. 8 at the Herberger Theater Center in Phoenix.

Written and performed by award-winning playwright Anna Deavere Smith, the play is a tribute to Arizona Women Lawyers Honoring Justice O'Connor and commemorates

the 2006 naming of ASU's Sandra Day O'Connor College of Law.

Premium seating and VIP tickets are \$100 and include a private reception with Anna Deavere Smith following the performance. General admission is \$25 and student admission is \$7. To contact the law school, call Amanda Breaux at (480) 965-6405. For theater information, call (602) 254-7399 or visit <http://www.herbergertheater.org/>.

### Supplier showcase to rev its engine

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

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.

### Professor's play earns first place

A play about the fourth U.S. president earned first place in the Premiere Stages New Play Development award competition. "Madison" is the creation of Guillermo Reyes, head of playwriting in the ASU Herberger College School of Theatre and Film. "Madison" also was produced at Premiere Stages in July of 2008. Premiere Stages produces professional theater on the campus of Kean University in Union, New Jersey during the summer as an on-campus Equity theater company. The Star-Ledger called the play, "witty, and often hilarious."

### Eisenberg receives three awards

Nancy Eisenberg gave an address at the American Psychological Association in Boston last summer as part of the ceremony for receiving the 2007 Ernest R. Hilgard Award for a Career Contribution to General Psychology (Division 1).

In addition, she was recently awarded the 2008 International Society for the Study of Behavioral Development Distinguished Contribution Award at the biennial meeting of this international society of developmental scientists in Germany.

In 2009, she will be the recipient of the 2009, Division 7, American Psychological Association, G. Stanley Hall Award for Distinguished Contribution to Developmental Psychology. She also has been elected president of Division 7 of the American Psychological Association (she will be president-elect for the next two years and then president for two years).

### Saks helps christen new science program

Professor Michael Saks was among the inaugural speakers this

fall at the new Centre for Forensic Science and Medicine at the University of Toronto in Ontario.

Saks, a professor of law and psychology and Faculty Fellow in the College of Law's Center for the Study of Law, Science, & Technology, spoke about scientific and legal problems in forensic individualization sciences such as handwriting, bite marks and fingerprints.

He addressed an Oct. 24 conference, "Current Controversies in Forensic Science and Medicine: Towards Resolution in the 21st Century," which assembled an elite group of experts who exemplify the current state of forensic science in their discipline or have undertaken research that illuminates its use by the courts and the public.

While at the University of Toronto, Saks also spoke on Oct. 23 to the Faculty of Law about a recent report released by Justice Stephen T. Goudge of the Court of Appeal of Ontario. It contains 169 recommendations that address the reform of numerous aspects of forensic pathology and of the judicial procedures for using expert witnesses, post-trial correction and compensation of victims of erroneous convictions, and the improvement of legal education in science and the interaction of science and law.

Many of the recommendations are applicable beyond forensic pathology and beyond Ontario, Saks said. "They could contribute to improving the quality and accuracy of forensic science expertise, science and legal education, and the ability of courts to make more informed, critical, and effective use of forensic science," he said.

### Dowdell joins law research, writing program

Stacey Dowdell has joined ASU as a visiting associate clinical professor in the Sandra Day O'Connor College of Law's Legal Research and Writing Program. She says she decided to go into law because she enjoyed writing and it seemed a good career choice.

Practicality and passion steered Dowdell into law nearly 15 years ago.

Dowdell, who received her law degree magna cum laude from the University of Arizona James E. Rogers College of Law, served as a clerk for Arizona Supreme Court justice Thomas Zlaket after law school and worked as an associate for the Phoenix law firms of Jennings, Haug & Cunningham, later Jennings, Strouss & Salmon, where she focused on civil litigation, appellate practice, construction and surety, landlord-tenant disputes, employment and education law, and other areas. For the past eight years, she was an independent contractor, working for law firms needing bigger writing projects, such as substantial motions and briefs.

Dowdell says she finds teaching more rewarding than practicing law.

"Even while practicing, I particularly enjoyed working with newer attorneys to help them develop skills, so it was a natural transition for me to teach," says Dowdell, who will teach "Legal Method & Writing" this semester and "Legal Research & Writing" in the spring.

## Grants build foundation for innovative transportation research

(Continued from page 1)

namic Traffic Patterns,” involves developing a comprehensive integrated model system capable of simulating urban systems using agent-based microsimulation approaches.

The integrated model system will incorporate models of land use, human activity and travel demand, along with traffic flow, so that transportation planning agencies can specifically consider the complex interactions between the built environment and transportation. The sophisticated modeling will help agencies ensure transportation systems remain sustainable in the future, says Pendyala.

The project team includes professor Paul Waddell of the University of Washington, Seattle and professors Yi-Chang Chiu and Mark Hickman of the University of

Arizona. Public agency partners on this project include the Maricopa Association of Governments, Pima Association of Governments, Maricopa County Department of Transportation, Arizona Department of Transportation, and the Puget Sound (Washington) Regional Council.

The second project will apply a new microsimulation model called Transportation Analysis and Simulation System, or TRANSIMS. Developed by the Los Alamos National Laboratory for the U.S. Department of Transportation, it is a model of activity-travel demand that can simulate movements of individual vehicles and travelers in a complex network.

The project will provide a unique multimodal test case for the application of TRANSIMS. Researchers will seek

to use the system to simulate the impact of alternative designs for proposed extensions of the light-rail lines as part of the Valley’s new light-rail system.

Pendyala’s team on this project includes industry partners Resource Systems Group, Inc. and HDR|SR Beard & Associates Inc. Public agency partners include the Maricopa Association of Governments and Valley Metro Light Rail.

For more information about these projects, contact Ram Pendyala at ram.pendyala@asu.edu or Brian Gardner, the Federal Highway Administration project manager at brian.gardner@dot.gov. More information about the projects is available at <http://urbanmodel.asu.edu>.

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## Green Team encourages better recycling practices

(Continued from page 1)

ways to recycle.

“We want to show people how this is affecting them on a daily basis,” says senior Christopher James, the Green Team’s campus environmental director. “We consume so much and we don’t even realize it.”

Having the recycling team at the Block Party will not only reduce ASU’s waste, but will serve as a visual way to show the public how to reduce their impact on the environment.

“We are going to offer a water refilling center for people to fill their water bottles, and also encourage vendors to buy products that can easily be recycled,” says Bonny Bentzin, manager of University Sustain-

ability Practices.

In efforts to continually improve ASU’s recycling practices, Bentzin is hoping that data from the event can be collected to show ways that waste management can be bettered.

“It is not going to be perfect, but we have to start somewhere,” says Bentzin. “We can learn from this year and work on staffing, visibility and accessibility in the future.”

Although the idea of ASU “going green” may be a large-scale concept, students can help in simple ways that are nearly effortless, but will have a large impact on campus.

“The key to cleaning up campus is to taking the time to find a recycle bin instead of throwing bottles and cans into the garbage

can,” says James.

He adds that unplugging small electronics such as cell phone chargers, before students leave their dorms will help to conserve energy.

The Green Team will host a series of events throughout the school year to help ASU continue on the green path, including a recent campuswide eco-challenge on Campus Sustainability Day that took place Oct. 22.

Anyone interested in volunteering to be part of the Green Team should contact Christopher James at [ctjames1@asu.edu](mailto:ctjames1@asu.edu).

For more information on Homecoming visit [www.asu.edu/homecoming](http://www.asu.edu/homecoming).

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TOM STORY PHOTO

Scott Tippett of ASU Recycling uses a recycling bin on the Tempe campus.

## ASU upholds financial aid promise to students

(Continued from page 1)

year and beyond.

“We also continue our investment in Arizona through the ASU Advantage program, a financial aid initiative for Arizona students from low-income backgrounds. This year 813 students are enrolled under the program.”

ASU also is committed to the tuition plan laid out last year in which current students experience a five percent increase in tuition. Incoming freshmen who join the university during the 2009-2010 academic year will pay more in tuition. Even with these increases, ASU still charges one of the lowest tuition rates in the PAC-10.

“We know that some students may need additional assistance due to a reduction or loss of income,” says Fennell. “We encourage students to contact the Student Financial Assistance Office for information on determining their eligibility for additional aid. Our staff is ready to help all students, whether they have already applied and have a change in circumstances or have not yet applied. It’s not too late to apply for financial aid for the current year.”

That application is available at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Students who would like to find out more about ASU financial aid can go to <http://students.asu.edu/financial-aid>.

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## ‘We Are Marshall’ coach to appear at West campus film screening Oct. 30

By Matt Crum

Jack Lengyel, the coach who rebuilt Marshall University’s football program after a tragic 1970 plane crash, will attend a screening of the film *We Are Marshall* at Arizona State University’s West campus.

After the 6 p.m. screening on Thursday, Oct. 30, Lengyel will participate in a question-and-answer session with audience members. Sponsored by the ASU College of Human Services, the event is free and open to the public.

Lengyel was portrayed by Matthew McConaughey in the 2006 film, which earned both critical and commercial success. The film, also starring Matthew Fox and David Strathairn, grossed more than \$43 million at the box office.

According to critic Todd Gilchrist with IGN Movies, “*We Are Marshall* is a great film precisely because it’s equal-opportunity. The ‘we’ doesn’t just mean the people at Marshall University, or in the town surrounding the school. Rather, it’s everyone.”

Frank Lovece of *Film Journal International* said the film “...uses football as a metaphor for church – a common place where, when tragedy occurs, a

community can gather to express its cathartic pain and to give one another solace and strength.”

Lovece called the film “...vital and energetic, and not morose or preachy.”

In November 1970 a plane carrying almost the entire Marshall University football team – its staff and fans – crashed, killing 75 people and devastating the small town of Huntington, W.Va.

Lengyel was hired to take on the difficult task of rebuilding the football program. He served as Marshall’s head football coach from 1971 to 1974.

Lengyel later moved into administrative positions in the intercollegiate athletics field. He worked at universities including Louisville and Missouri, and also spent 13 years as director of athletics at the U.S. Naval Academy.

The event will be held in the La Sala Ballroom in the University Center Building at ASU’s West campus, 4701 W. Thunderbird Road in Phoenix. (There is a fee for visitor parking on campus.)

For more information about the Oct. 30 screening and discussion, contact Dan Turbyfill at (602) 543-6639 or [ctevents@asu.edu](mailto:ctevents@asu.edu).

*Crum, with Public Affairs at the West campus, can be reached at (602) 543-5209 or [matthew.crum@asu.edu](mailto:matthew.crum@asu.edu).*

## EMPLOYMENT

The following positions are available as of Oct. 24 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 of Continuing & Executive Education** (O) #21341 – Sandra Day O’Conner College of Law (Nov. 13).

##### Professional

**Accounting Specialist** (O) #21377 – Financial Services (Nov 3).

**Coordinator** (O) #21321 – W.P. Carey School of Business MBA Online Program (Oct. 31).

**Export Compliance Officer** (O) #21323 – VP-Research and Economic Affairs (Oct. 29).

**Nurse Practitioner** (O) #21297 – Campus Health Service (Oct. 31).

**Research Specialist** (O) #21322 – The Biodesign Institute (Oct. 29).

**Research Technician** (O) #21370 – The Biodesign Institute (Nov. 3).

**Senior Project Manager IT** (O) #21353 – University Technology Office – Project Management (Oct. 31).

##### Administrative support

**Credentials Evaluator** (O) #21306 – Office of Community College Partnership (Oct. 31).

#### DOWNTOWN PHOENIX CAMPUS

##### Professional

**Medical Assistant** (O) #21371 – College of Nursing & Healthcare Innovation (Oct. 29).

**Medical Assistant (Part-time)** (O) #21375 – College of Nursing & Healthcare Innovation (Oct. 29).

**Nurse Practitioner (Part-time)** (O) #21351 – College of Nursing & Healthcare Innovation (Oct. 29).

**Principal Systems Support (IT)** (O) #21250 – University Technology Office (Oct. 29).

**Program Coordinator** (O) #21276 – College of Public Programs – Lodestar Center for Philanthropy & Nonprofit Innovation (Oct 30; if not filled then every week thereafter

until search is closed).

#### POLYTECHNIC CAMPUS

##### Administrative support

**Administrative Assistant** (L) #21315 – Polytechnic Campus-Student Affairs and Public Affairs (Oct. 30).

#### ACADEMIC POSITIONS

##### TEMPE CAMPUS

**Assistant Professor** #9241 – College of Liberal Arts and Sciences-School of International Letters & Cultures (Dec 1; if not filled, then every week thereafter until search is closed).

**Assistant/Associate Professor** #9235 – Human Services-School of Criminology and Criminal Justice (Oct. 17; if not filled, then every week thereafter until search is closed).

**Faculty Associate** #9239 – College of Liberal Arts and Sciences-English (Jan. 2; then every month thereafter until search is closed).

**Faculty Research Associate** #9242 – College of Liberal Arts and Sciences-Psychology (Nov. 28; if not filled, then every two weeks thereafter until search is closed).

**Instructor** #9237 – College of Liberal Arts and Sciences-English (Jan. 2; if not filled, then every month thereafter until search is closed).

**Instructor** #9238 – College of Liberal Arts and Sciences-English (Jan. 2; if not filled, then every month thereafter until search is closed).

**Lecturer** #9240 – College of Liberal Arts and Sciences-English (Jan. 2; if not filled, then every month thereafter until search is closed).

## Mentorship program aids groundbreaking women

By Joe Kullman

The way Heather Cavitt sees it, her career choice offers not only an opportunity to land good jobs, but a role in breaking new ground in her chosen field.

Cavitt, a senior working toward a degree in construction management from ASU's Del E. Webb School of Construction, is looking to enter one of the most traditionally male-dominated industries.

"I don't have a problem with that," she says. In fact, she considers it an advantage.

Construction industry leaders realize the value of hiring people "who are strong and willing to take on challenges," she says.

And simply by virtue of pursuing a career in what is certain to remain a predominantly male domain, females demonstrate those qualities.

Now, Cavitt and other women in the construction school, a part of ASU's Ira A. Fulton School of Engineering, can give themselves another advantage: Learning from pioneering women who already have risen to leadership positions in the business.

The school recently established its Advancing Women in Construction program, a key part of which is a mentorship project. More than 70 women – and several men – in the construction industry in the greater Phoenix area have signed on to mentor female students and provide them an inside look at life in the industry.

The program will benefit students and help rejuvenate an industry in need of a new wave of young professionals, says Carol Warner, president and chief operating officer for Johnson Carlier, a third-generation, Arizona-based construction contracting company.

"As an industry, we are concerned about the future of our profession," says Warner, who has worked in construction for close to 25 years. "There is a shortage of professional builders and people in skilled trades. We need more fervent work force development."

Women are uniquely skilled in communication, organization and team building – areas that are becoming increasingly critical to the industry, she says.

"People who can combine those skills with technical knowledge gained at ASU's School of Construction are going to be pursued by construction companies throughout the country," Warner says. "My peers in the industry are eager to support, train and commit to bringing more women into their work force."

The industry "continues to need qualified people, and one of the more underutilized talent pools is women," says Rozlyn Lipsey, president of Phoenix-based Jokake Construction company.

Companies are supporting the school's new mentorship program as an investment in ensuring themselves quality employees and leaders for the future, Lipsey says.

That commitment is demonstrated by more than 30 construction and construction-related companies, in addition to industry groups, that have donated to the school's Advancing Women in Construction scholarship program. The goal is to eventually provide women who enter the school with \$1,000 scholarships for each of their first two academic years, provided they meet certain eligibility requirements.

It's part of a plan to increase female enrollment from less than 15 percent of total enrollment to 30 percent – or about 200 female students – within five years.

Cavitt says her favorite thing about the school's construction management program is the opportunity to learn beyond the classroom, such as internships and building-project competitions between construction students at other universities.

She expects the mentoring program to add significantly to the value of her college education.

"I'm excited to learn about the real-world business of construction from women who have been successful at it for many years," she says.

Cavitt has been paired with mentors Crystal Slawson, president of



PHOTO BY KEN SWEAT/ASU

**Del E. Webb School of Construction student Heather Cavitt (front) is helped by the more experienced Crystal Slawson (center), president of Phoenix Pipelines, and Natalie Palmer, the company's project coordinator, through the school's Advancing Women in Construction mentorship program.**

Phoenix Pipelines, and Natalie Palmer, the company's project coordinator.

Slawson has been in the business for more than two decades and is still passionate about it, she says.

"Whenever you're passionate about something, you want to share the experience," she says. "I hope to open students' eyes to the possibilities and opportunities available to them."

The mentorship program can be invaluable especially for preparing women for a demanding work environment, Slawson says.

"Some of the best advice I ever received was from my mother, who encouraged me to continue to 'be a lady' in a man's world," she says. "I think it's good for female students to see examples of someone outside of the stereotype of what people would expect a woman in construction to be like."

Besides career coaching and advice, students will have opportunities to shadow mentors on the job, to network with business owners, executives and skilled trade workers, and to begin scouting for internship and job possibilities.

The program is tailored to meet students' changing needs as they progress through college.

Freshman-year mentoring is geared to helping students acclimate to college and its demands, and to building relationships with mentors.

Sophomore year is devoted to exposing students to industry groups and job options. Internship searches and career development planning starts when the students begin their junior year. Job hunting will be a focus of their senior-year education.

"Our goal is 100 percent job placement," Lipsey says.

Mentors can give students the chance to experience the differences of working with a large company compared to a small company, or working for a construction trade contractor compared to general construction contractor, she says.

"Each company is different, and exposing students to different kinds of company cultures will give them a better idea of the career directions that best fit them," Lipsey says. "I think they are going to see that this is an increasingly diverse and sophisticated industry of people who thrive on creativity and challenges, and contribute a lot to the community. Plus, it's a business in which people can be well-paid and rewarded."

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## Archaeologist fuses anthropological approaches

By Rebecca Howe and Jodi Guyot

ASU doctoral student Scott Ortman, a rising star in the field of Southwest archaeology, is helping to close the gap between theory and data with his training in quantitative and qualitative work – and his skillful way of linking the two.

"A perennial problem in archaeology is that we have many interesting theoretical ideas – for example, how humans perpetuate material traditions – but we often do not know how to apply that theory to our data, such as counts of potsherds," says archaeologist Michelle Hegmon, a professor in the College of Liberal Arts and Sciences' School of Human Evolution and Social Change, and chair of Ortman's committee.

According to Hegmon, Ortman's dissertation – titled "Genes, Language and Culture in Tewa Ethnogenesis" – and the way he prepared for it exemplify new directions in teaching and research.

Centering on the migration of people from the Mesa Verde region in the 13th century, the project tackles a classic archaeological problem: Is recent human diversity the result of correlated or independent change in genes, language and culture?

Ortman is addressing this research from a broad perspective that crosscuts the tra-

ditional subfields of anthropology and combines it with powerful quantitative approaches. He is investigating changes in genes (bioarchaeology), language (linguistic anthropology) and material culture (archaeology) to take a fresh look at the migration of a particular group over time to see whether there are predictable conditions under which genes, language and culture travel together.

"I'm studying the role of large-scale population movements in generating human diversity," Ortman says. "Existing models in archaeology tend to view the social consequences of migration as being governed by the 'social kinetics' of the situation – the relative size of the immigrant versus local population, the size of migrating groups, the pace of movement, etc. This leads to the assumption that, when immigrants outnumbered locals, it should be pretty easy to identify where they came from."

But Ortman's subject doesn't fit this model.

"What I've found is that the genes and language of the Tewa-speaking pueblos of New Mexico derived almost exclusively from the Mesa Verde area of southwestern Colorado, but their material culture derived largely from local New Mexico anted-

ents," he says. "In fact, the disjunction in material culture between the Mesa Verde homeland and the New Mexico destination is so complete that, using only archaeological evidence, one would be hard-pressed to argue that a migration between the two areas even occurred."

Ortman has come to realize that such problems are only difficult to fathom when viewed through the "social kinetics" lens.

"Why should we assume that migrants necessarily want to do things as they have always done?" he asks. "Of course they do in some cases, but in others, social change may be the reason for moving."

Ortman's training in multiple methodologies allows him to explore anthropological issues – such as the Mesa Verde migration – from various perspectives. The flexible, interdisciplinary nature of ASU's doctoral program in anthropology enabled him to assemble an extraordinary team of faculty renowned for their expertise in their respective subdisciplines.

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

## Professor pens book on voter expectations

By Marshall Terrill

Voters expect presidential candidates to engage in informative, civil debates in a variety of settings focused on relevant national issues.

Those are the findings of a 13-year study on U.S. presidential debates conducted by Kelly McDonald, an assistant communication professor in ASU's School of Letters and Sciences. McDonald's research on the subject has resulted in his first book, "The Third Agenda in U.S. Presidential Debates." Co-authored with Diana B. Carlin, professor of communication studies at the University of Kansas, the book will be released this month by Praeger Publishers.

"Debates don't tend to shift the electoral tide, but voters do get information on issues and a barometer of their reaction to candidates from watching them," says McDonald. "They tend not to make or break a candidate, but they can amplify attributes which voters may see positively or negatively."

Drawing on scholarly research and media critiques, the book examines debates from 1996, 2000 and 2004 from the perspective of television viewers who watched the encounters firsthand. Through a national program – Debate-Watch – tens of thousands of viewers had an opportunity to provide feedback to the debate sponsors, the campaigns and presidential candidates in the last three elections. As

a result, thousands of groups met to discuss what they liked and didn't like about a particular candidate, what they learned, and what they still needed to know about the issues presented before them.



Kelly McDonald

This book breaks down the fundamental aspects that made DebateWatch such a powerful tool for citizens, and maps out what the public looks for when watching a debate.

"Voters have also told us they expect the presidential candidates to debate and they want it to be civil, civic and engaging," McDonald says.

Debates are a powerful lens because the searing lights of the exchange put a bright focus on both the positive and negative, which gets picked up in the news cycle, says McDonald. He points to the emotional register of debates in the manner that other political events such as Howard Dean's "I Have a Scream" speech in 2004 and Al Gore's excessive eye-rolling and sighing in the 2000 debates were interpreted by voters as lack of passion.

McDonald says the Oct. 2 vice presidential debate between Senator Joe Biden and Gov. Sarah Palin may prove to be the biggest story of the 2008 election.

"That debate was watched by more than 70 million people, which is an astonishing number for a vice presidential debate," says McDonald. "It gave us a glimpse into their leadership styles, how they would govern and if they are qualified to serve in that position."

Along with 14 analytical chapters, this work contains four detailed appendices, several tables and an index.

To purchase a copy of "The Third Agenda," go to [www.praeger.com](http://www.praeger.com).

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