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## 'Pathways to Success'

About 50 educators from four local high schools will gather in Tempe Sept. 29-30, hoping to learn secrets of success from a fifth high school that has bucked the odds in getting at-risk students to graduate and attend college.

Cibola High School in Yuma serves a student body that is 75 percent Hispanic, many of them immigrants, with 50 percent qualifying for the reduced price lunch program. Yet the school consistently outperforms schools with similar demographics, graduating more than 80 percent of students who enter as freshmen, with 94 percent of them pursuing further education.

Members of ASU's High School Completion and College Going Initiative have been studying Cibola, collecting data to explain the school's success and to provide a model for others. ASU is playing host to delegations from Cibola and four other invited schools at a "Pathways to Success" working conference at Fiesta Inn.

Attending the conference will be representatives from Carl Hayden High School in the Phoenix Union District, La Joya Community High School in the Tolleson Unified District, Westwood High School in Mesa and Cortez High School in the Glendale Union District. Principals, counselors, department heads and teachers will bring their own problems to the table for analysis to develop plans for interventions they can apply to their own schools.

The initiative is part of ASU's University-School Partnerships office, which aims to enhance the academic performance of Arizona's students through deliberate and strategic efforts with public and private sector partners. Co-sponsor of the conference is WestEd, a national nonprofit research, development and service agency.



### ASU on the Web

Feeling feverish? For ASU fans, there's a cure in the near future: Homecoming 2006. This year's festivities, bearing the theme "Maroon & Gold Fever ... It's Contagious," will take place Oct. 13-22.

The 2006 Homecoming activities will commemorate the graduating classes of 1996, 1986, 1976 and 1966 for this year's Golden Reunion.

For more information about ASU Homecoming, visit the Web site ([www.asu.edu/homecoming](http://www.asu.edu/homecoming)).

To suggest a Web site to be profiled in *ASU Insight*, send the site address to ([asuinsight@asu.edu](mailto:asuinsight@asu.edu)).

## ASU enrollment tops 63,000 students

By Sarah Auffret

Enrollment at ASU this fall has reached a record 63,278 students, almost 4 percent higher than last year's 61,033.

ASU's enrollment has grown by nearly 8,000 students since 2002, when its mission emerged to become a high-quality, high-access model of President Michael Crow's vision of the New American University.

"ASU is a university on the rise in the second-fastest-growing state in the nation," says Jim Rund, vice

president for university student initiatives. "Our goal is to serve the people of Arizona – to build high-quality programs and expand our capacity to meet the growing demand for a university education."

ASU has strategically placed programs on campuses where they can flourish.

At the new Downtown Phoenix campus, ASU enrolled 6,229 students, with the colleges of public programs, nursing and health care innovation and the University College having relocated from the

Tempe campus this fall. At the Tempe campus, 51,234 students are enrolled, comparing closely with last year's 51,612, even with the shift of three colleges downtown. Enrollment at the Polytechnic campus in Mesa grew to 6,545 from 4,865 last year. Enrollment at the West campus grew 6 percent to 8,211 from 7,734 last year.

Campus enrollment figures total more than the overall unduplicated count of 63,278, as ASU students take advantage of the courses that are offered by departments

throughout the university, not just at the campus that is the academic home of the student, says Lou Ann Denny, associate vice president and university registrar.

While the incoming freshman class profile and demographic information will be available soon, projections continue to indicate that ASU will have the largest freshman class of any public university in the nation this fall.

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

ASU's Willem Vermaas, left, and Guy Cardineau, right, stand with Marco Rito-Palomares, a fellow researcher from the Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) in Mexico. ASU and ITESM have established the Collaborative on Biotechnology Research Grant Program to support scientific research projects.

TOM STORY PHOTO



## Organisms' medical potential attracts researchers' attention

By Adriana Elektra Sanchez

More than an ornament or a basic source of food, photosynthetic organisms have the potential to be among the toughest cancer fighters and best biofactories available for humans.

ASU and Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) in Mexico have established the Collaborative on Biotechnology Research Grant Program to support scientific research projects that can have direct application in industry, government and society.

Several scientists competed for \$200,000 available through the program to support their research projects during the next two years.

The winners for this year are pro-

fessors Guy A. Cardineau and Willem Vermaas from ASU's School of Life Sciences. They will join Marco Rito-Palomares and Manuel Zertuche from Centro de Biotecnología del Tecnológico de Monterrey.

The team formed by Cardineau and Zertuche will direct a project focused on the genetic modification of alfalfa (*Medicago sativa*) to obtain a production system to express, and then extract, transgenic proteins of medical value from green tissue.

The clinical application of the target protein for this specific project can be used to support the recovery of patients exposed to chemotherapy, as well as treatment of different diseases, such as anemia.

(See RESEARCHERS on page 7)

## Professor: Oldest infant skeleton helps solidify human timeline

By Dan Jenk

Discovery of a nearly intact, 3.3 million-year-old juvenile skeleton is filling an important gap in understanding the evolution of a species thought to be among the earliest direct ancestors to humans, says William Kimbel, a paleoanthropologist with ASU's Institute of Human Origins.

Kimbel is part of the team that studied the skeleton of an approximately 3-year-old female *Australopithecus afarensis*, the same species as the well-known "Lucy," from Dikika, Ethiopia.

"It's extraordinarily rare to have such a complete skeleton," says Kimbel, science director at the Institute of Human Origins. "It's unprecedented to have such a complete skeleton of a young child."

The researchers describe their discovery and initial analysis of it in "A juvenile early hominin skeleton from Dikika, Ethiopia," in the current issue of *Nature* (Sept. 21). The skeleton was discovered by lead author Zeresenay Alemseged, director of the Dikika Research Project and a former postdoctoral researcher at ASU's Institute of Human Origins. Alemseged is at the Max Planck Institute for Evolutionary Anthropology, located in Leipzig, Germany.

Other authors of the paper are Fred Spoor, University College London; Rene Bobe, State University of New York at Buffalo; Denis Geraads, National Center for Scientific Research, Paris; Denne Reed, University of Texas at Austin; and Jonathan G. Wynn, University of South Florida.

(See DISCOVERY on page 7)

## Search for a better battery keeps going ... and going ...

By Joe Caspermeyer

Users of laptop computers, digital cameras or portable music players who are frustrated by frequently losing battery power can take heart: A better source of "juice" is in the works.

Chemists at ASU's Biodesign Institute have created a tiny hydrogen-gas generator that they say can be developed into a compact fuel cell package. This generator could then power portable electronic devices three to five times longer than conventional batteries of the same size and weight.

"We're trying to maximize the usable hydrogen storage capacity of borohydride to make the fuel cell power source last longer."

– Study leader Don Gervasio

The generator uses a special solution containing borohydride, an alkaline compound that has an unusually high capacity for storing hydrogen, a key element that is used by fuel cells to generate electricity.

In laboratory studies, prototype devices have been used to provide sustained power to light bulbs, a radio and a DVD player, the researchers say.

"We're trying to maximize the usable hydrogen storage ca-

capacity of borohydride to make the fuel cell power source last longer," says study leader Don Gervasio, who serves as an associate research professor within the institute's Center for Applied NanoBioscience. "That could lead to the most powerful power source ever produced for portable electronics."

The fuel cell system can be packaged in containers of the same size and weight as conventional batteries, and the system is recharged by refilling the fuel cartridge. Research on the battery replacement fuel (See TINY on page 7)

Biodesign Institute's Poste calls hiring 'a tremendous asset'

## Hecht to co-direct new Center for BioEnergetics

By Kimberly Ovitt

ASU's Biodesign Institute has recruited Sidney Hecht to co-direct its new Center for BioEnergetics. Hecht is a respected leader in biological chemistry and drug design who has played a key role in the development of Hyca-mtin, a drug used to treat ovarian and lung cancer, as well as in the study of the mechanism of the antitumor agent bleomycin.

He now is turning his attention to diseases caused by defects in the body's energy production processes.

In a career spanning more than three decades, Hecht has held academic and industrial research positions. He joins ASU from the University of Virginia, where he is a professor of chemistry and biology. From 1981-1987, he concurrently held leadership positions in research and development for Smith Kline and French Laboratories. These dual interests are reflected when Hecht cites his most rewarding achievements: serving as a mentor to hundreds of young scientists and seeing his discoveries become life-saving drugs.

George Poste, director of the Biodesign Institute, says Hecht's recruitment is significant for ASU.

"Sid Hecht possesses an enormous talent for understanding the fundamental cellular mechanisms that underlie disease, and he has been able to translate that into treatments," Poste says. "An entrepreneurial researcher of his caliber is a tremendous asset."

The Biodesign Institute's Center for BioEnergetics will focus on mitochondrial diseases, which are classified as metabolic disorders.

"I became interested in contributing

to this effort because energy production is similar mechanistically to other molecular processes I've studied extensively," Hecht says.

Most cells in the human body are powered by tiny, pill-shaped structures called mitochondria. When these malfunction, the body cannot produce



Sidney Hecht

enough energy to sustain normal function, resulting in devastating and often fatal diseases. These primarily affect children and young adults, though adult onset is becoming more prevalent. Symptoms include heart, liver or kidney disease; poor growth; loss of muscle function; vision and hearing problems; developmental delays or mental retardation; diabetes; respiratory and gastrointestinal disorders; and dementia.

Mitochondrial defects are responsible for more than 40 different diseases that independently are classified as rare. Collectively, however, these diseases have significant impact. In the United States, about 1 in 4,000 children will develop a mitochondrial disease before age 10.

Impairment to the mitochondria also is implicated as a factor in aging and is associated with diseases including diabetes, Parkinson's disease, atherosclerotic heart disease, stroke, Alzheimer's disease and cancer.

Hecht will co-direct the center with Guy Miller, who was appointed in February. Hecht mentored Miller dur-

ing his doctoral studies in chemistry, and the two of them have collaborated frequently. In 2005, they co-founded Edison Pharmaceuticals, a pharmaceutical company focusing on inherited mitochondrial disorders.

"Dr. Miller is both a chemist and physician with uncommon insights into metabolism and its linkage to disease," Hecht says. "He is committed to harnessing research to improve patient outcomes. We have complementary skills and similar goals, so working together comes very naturally to us."

Hecht says the opportunity to work within the Biodesign Institute was a major factor in his decision to join ASU.

"In addition to the excellent facilities, the researchers here have a broad range of skills, an expansive willingness to work with one another, and a determination to direct scientific discovery at societal needs," Hecht says. "The leadership is willing to let researchers do things differently, understanding that innovation requires taking some risks."

Hecht had been with the University of Virginia since 1979. Before that, he was a faculty member at MIT.

He has been an Alfred P. Sloan Fellow, is a fellow of the American Association for the Advancement of Science, and was named Virginia's Outstanding Scientist for 1996. He serves on the boards of several biotech companies, is an associate editor of the Journal of the American Chemical Society, and serves on the editorial boards of four other peer-reviewed publications.

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## Qwest to lease space at SkySong

By Sharon Keeler

Qwest Communications Inc., a leading provider of high-speed Internet, 100 percent digital television, digital voice and wireless services, will lease space at SkySong, the ASU Scottsdale Innovation Center.

Qwest representatives in Arizona and at the Qwest corporate headquarters in Denver are "impressed by SkySong's creative, 21st century business model, as well as its location," says Pat Quinn, Qwest president-Arizona.

"The opportunity to interact with ASU organizations locating at the center, other technology businesses leasing space there, along with international companies conducting business at SkySong, appears to be an excellent business prospect for Qwest," Quinn says. "We're excited to participate in what should become one of the most advanced innovation centers in the world."

"Qwest's decision confirms that the idea behind SkySong makes excellent business sense today, when our global economy is driven by innovation," adds Mary Manross, Scottsdale's mayor. "Clearly, the state's largest communications company understands the importance and the potential of SkySong."

Although Qwest has not announced what aspects of its operations – or how many employees – will move to SkySong, discussions are under way with ASU officials regarding potential strategic partnerships with the university and other tenants.

"The university is thrilled that Qwest has chosen to locate at SkySong," says Rob Melnick, ASU associate vice president for economic affairs. "It exemplifies the type of company that will help position SkySong as a global focal point for technological innovation, cross-disciplinary collaboration and entrepreneurial ventures."

Qwest Communications has about 40,000 employees worldwide.

*Keeler, with Media Relations, can be reached at (480) 965-4012 or (sharon.keeler@asu.edu).*

## New system aims to reduce university's reliance on paper documents

By James Vito Palazzolo

ASU has implemented a new electronic document management system capable of streamlining today's paper-based university business processes. This new system, based on EMC Corp.'s Documentum product, will allow ASU staff to replace paper-forms-based processes with the electronic storage and routing of electronic forms.

As one of the nation's largest and fastest-growing universities, ASU has implemented this system to promote the use of online document services to continually improve efficiency and increase the university's level of service.

The Documentum software lets users create and define "electronic workflows" that allow documents to be passed along from person to person electronically, replacing the

printing and mailing needed when a process is paper-based.

Electronic routing translates to faster response times and fewer errors.

ASU's Division of Graduate Studies has been using this new digital system to file graduate applications with great success over the past several years.

"This project is a great leap forward for ASU," says Gary Delago, assistant director for the Office for Research and Sponsored Projects Administration. "Current slow-moving and paper-driven systems can now be replaced with an electronic environment that supports a more efficient workflow, with rapid access to project files from remote locations."

The new system will provide faster service, and it also means less work for ASU staff by reducing paper handling, sorting and storage costs. Documents also can be archived

for a set amount of time, allowing users to reference forms or add information on an as-needed basis.

ASU plans to extend this approach throughout the enterprise in its drive to become a "digital" university. The Documentum system will be tightly integrated with OASIS, ASU's new PeopleSoft-based student records and online administrative services system.

For more information about ASU's document management project, send an e-mail to (gene.tucker@asu.edu).

For more information on OASIS, visit the Web site (www.asu.edu/oasis). For more information on Documentum, visit the Web site (http://software.emc.com/products/product\_family/documentum\_family.htm).

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'Tonight Show' host visits ASU Gammage Sept. 27

## Leno visits ASU to support new real estate degree

By Steve Reiher

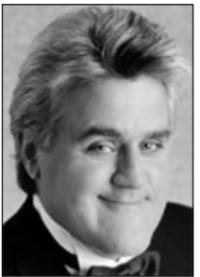
Jay Leno and ASU's new real estate education initiative will join forces for "An Evening of Comedy with Jay Leno" at 8 p.m., Sept. 27, at ASU Gammage on the Tempe campus.

Tickets are available for \$150 per person.

The event, conducted by the National Association of Industrial and Office Properties (NAIOP) and SkySong in partnership with the ASU Foundation, will benefit the university's newest real estate degree program.

ASU's master's degree in real estate development – also known by its acronym, MRED – launched Aug. 17 and is unlike any other program in the nation. It's built upon an innovative, transdisciplinary collaborative approach involving four ASU schools: the Sandra Day O'Connor College of Law, the College of Design, the W. P. Carey School of Business and the Del E. Webb School of Construction.

The 30-week, full-immersion program focuses on curriculum presented in a fast-paced topic sequence reflective of the real estate development process – from dirt to deal, from finance to façade.



Jay Leno

The curriculum features industry case studies presented by leading local and national developers, synthesis projects, classroom and collaborative team assignments, research, site visits, mentor presentations and distinguished visitor lectures.

Students will be exposed to the complexities of the real estate development process for an industry-relevant learning experience.

Upon completion of studies, students will enter the real estate development field with knowledge, perspective and understanding of numerous industry-related issues including law, economics, market analysis, negotiation and urban policy.

The MRED program has also linked with the Massachusetts Institute of Technology (MIT) Center for Real Estate to share information and exchange visits. MRED students and faculty will visit MIT this fall, and MIT students and faculty will visit ASU in the upcoming spring semester.

For more information about the event, contact Gina Gillies at (480) 965-7622 or (gina.gillies@asu.edu).

To buy tickets, visit the Web site (www.ticketmaster.com) and enter "NAIOP" in the search box, or call Gammage Box Office at (480) 965-3434.

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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 5 p.m. for the following Friday's paper.**

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A group of ASU doctoral students gathers to congratulate ASU professor Flavio Marsiglia, third from right, after he received the National Award for Excellence in Mentorship from the National Hispanic Science Network (NHSN) at its annual meeting in Scottsdale Sept. 14. The students are, from left: David Becerra, Maria Gurrola, Monica Parsai, Tanya Nieri and Francisco Alatorre.



STEPHEN KULIS PHOTO

## National Hispanic Science Network honors Marsiglia

8 ASU doctoral students praise professor for his mentorship

By Debra Palka

The National Hispanic Science Network (NHSN) has awarded Flavio F. Marsiglia, a professor in ASU's School of Social Work, the 2006 National Award for Excellence in Mentorship.

The award, presented at NHSN's annual conference in Scottsdale, recognizes a senior investigator who has provided outstanding mentorship in the area of Hispanic drug abuse to Hispanic graduate students and new investigators, resulting in peer-reviewed publications or successful grant applications.

Eight ASU doctoral students from social work, justice studies and sociology nominated Marsiglia. They are: Francisco Alatorre, justice studies; David Becerra, social work; Jason Castillo, social work; Maria Gurrola, social work; Tanya Nieri, sociology; Monica Parsai, social work; Veronica Pena, social work; and Lorraine Moya Salas, social work.

The students cited five published co-authored papers, five more under review and others in progress, along with 11 co-presentations, 14 poster sessions and three fellowships as testimony to Marsiglia's mentorship, research collaboration and guidance.

"This honor is particularly gratifying since my nomination came from my students," he says. "But it is also wonderful that NHSN and its funder, the U.S. De-

partment of Health and Human Services National Institutes of Health/National Institute on Drug Abuse, validates the important work of mentoring the next generation of Latino social scientists."

The nomination letter describes Marsiglia's example of excellence and his open-door policy despite a demanding schedule in this fashion: "He sets and maintains high standards, challenging us to be at once productive, inquisitive and ethical. As a first-rate collaborator, he contributes his fair share while creating a space in which students feel they too can contribute. He makes things happen for us - serving on dissertation and exam committees willingly, sharing data, introducing us to his colleagues, finding travel money for us and providing critical encouragement and guidance."

The nominators also praised Marsiglia's ties to local and international communities and his focus on responsiveness to real-world problems.

Marsiglia, the ASU Foundation Professor of Cultural Diversity and Health and director of the Southwest Interdisciplinary Research Center (SIRC), focuses on linking practice and research in drug prevention and service-delivery fields, health disparities among the historical communities of the Southwest, and HIV/AIDS prevention. Since he began his ASU career as an assistant professor in 1994, he has secured nearly \$10 million in federal grants while also establishing SIRC.

In 2005, the U.S. Department of Health

and Human Services, Substance Abuse and Mental Health Services Administration recognized Marsiglia's seminal work with Michael Hecht in evidence-based drug resistance strategies as a national model. In 1999 and 2003, Marsiglia's mentoring skills earned him mentorship awards from ASU's Preparing Future Faculty Program, "for helping doctoral students meet the faculty responsibilities of teaching, research, and service." The National Hispanic Science Network on Drug Abuse also recognized Marsiglia when they named him a fellow in 2004.

Mary Gillmore, director of ASU's School of Social Work, reflected on her colleague's award by stating, "Social work and social science education are enriched by faculty like Dr. Marsiglia. He is a master at creating a stimulating intellectual environment in which he guides students individually and as equal partners in the center's rigorous international research agenda. He assures that students have opportunities to co-author publications and present research results at professional meetings. The result is that his students are exceptionally well-prepared to lead the next generation of social scientists and professionals."

Marsiglia received his doctorate from the Mandel School of Applied Social Sciences at Case Western Reserve University, and his master's degree in social work from the Universidad de la Republica in Uruguay.

Palka, with the College of Public Programs, can be reached at (602) 496-0409 or (debra.palka@asu.edu).

### Jonathan and Maxine Marshall Distinguished Lecture Series

## Newsweek editor takes look at 'American Gospel'

By Carol Hughes

Newsweek editor Jon Meacham looks to the religious faith of America's founding fathers to glean insight into today's conversations and debates about the role of religion in American society.

Meacham will be on the ASU Tempe campus Sept. 26 to deliver the Jonathan and Maxine Marshall Distinguished Lecture at 7:30 p.m. in ASU Gammage. The event is free and open to the public, but tickets are required.

The title of his talk - "American Gospel" - reflects the title of his latest book, "American Gospel: God, the Founding Fathers, and the Making of a Nation." In the book, a *New York Times* best seller, Meacham tells the story of how the founding fathers viewed faith - and how they ultimately created a nation in which belief in God is a matter of choice.

"In these polarized times, Meacham's book provides an enlightening look at how the founding fathers discovered ways to tame, but not extinguish, the fires of faith," wrote *USA Today*.

Meacham also wrote "Franklin and Winston: An Intimate Portrait of an Epic Friendship," another *New York Times* best seller.

Meacham, a Tennessee native, recently was named editor of *Newsweek* magazine. He previously earned distinction when he became the managing editor of the magazine at the young age of 29 and was named "one of the most influential editors in the news magazine business" by the *New York Times*. He began his



Jon Meacham

journalism career with the *Chattanooga Times*.

Earlier this month, Meacham was named editor of *Newsweek* by chairman and editor-in-chief, Richard Smith.

"In Jon, we are fortunate to have perhaps the best and brightest young editor in the business," Smith says. "He is a gifted writer on social, political and religious affairs, a remarkable editor and talented manager. His uncanny judgment, lively intelligence and steadfast commitment to quality in print and on the Web will lead *Newsweek* into a bright future."

Meacham has a bachelor's degree in English literature from the University of the South in Sewanee, Tenn., where he serves on the board of regents. He received an honorary doctor of humane letters degree from the Berkeley Divinity School at Yale University in 2005.

Meacham is a member of the Council on Foreign Relations and a communicant of Saint Thomas Church Fifth Avenue, where he serves on the vestry of the 180-year-old Episcopal parish.

Free tickets are required and are available at the ASU Bookstore, or they may be reserved by either calling (480) 965-0051 or visiting the Web page (clas.asu.edu/tickets).

The Jonathan and Maxine Marshall Distinguished Lecture Series brings to ASU nationally known scholars concerned with promoting culture through the humanities and a better understanding of the problems of democracy. The lecture series is funded by grants from Jonathan and Maxine Marshall, retired publishers of the *Scottsdale Progress*, and the Marshall Fund of Arizona.

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

## In THE NEWS

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

The discovery of 10,000-year-old remains in an Alaskan cave has rekindled debate over scientific study of our common America. While it is important to return remains to native tribes when a cultural link is established, the public benefit of scientific knowledge also should be factored in. Too often, federal agencies quickly move to return remains without allowing respectful study. "The agencies too often have taken the easy way out," says anthropologist Keith Kintigh. *Seattle Post-Intelligencer*, Aug. 27.

Dissatisfied consumers now can take their complaints to the Internet, launching online "gripe sites" that become full-fledged public crusades. Marketing professors James Ward and Amy Ostrom studied the sites and say most complaints could have been solved with an apology. "It's often about more than economic recompense," Ward says. "It's about self-respect. These are consumers who have been repeatedly ignored, rebuffed and sometimes insulted by the company." *Toronto Star*, Aug. 27.

Scientists discovered the source of mysterious pre-Columbian relics when they uncovered a looter's trench that had been filled in near the famous Pyramid of the Moon in Teotihuacan, Mexico. Frescoes had been torn from walls. "Back in the 1960s, when this stuff was looted and before the Mexican government began doing more to secure the site, there was still quite a bit of stuff lying around on the ground," says archaeologist George Cowgill. "Kids were selling it to tourists." *San Francisco Weekly*, Aug. 30.

The arrest of Warren Jeffs, the fugitive leader of a polygamist sect, marked a change in approach for law enforcement authorities, who previously had left the sect alone. "I just don't think there was much in it for politicians," says pollster Bruce Merrill. Now the state's dynamics have changed, and the media has framed the issue as a matter of pedophilia - a subject that brings great public disapproval, Merrill says. *Las Vegas Sun*, Aug. 30.

ASU's new film program is taking a different approach, preparing young professionals for a warp-speed entertainment industry in which technology is changing consumers' leisure habits. "We need to understand the new technology and how it will shape entertainment," says program director Peter Lehman. ASU's liberal arts dean, David Young, says the university is moving toward mixing disciplines. "If you look at the big issues facing society, they won't be cured from a one-discipline approach." *New York Times*, Sept. 6.

Some people are able to achieve success without a college degree, but despite rising tuition costs, studies show investing in a college degree pays off in the long run. On average, college grads earn 69 percent more over their lifetimes than high school grads, and the gap is widening, says research professor Kent Hill. "The prospective student doesn't want to play the lottery," says Hill, who co-authored a study. "He wants to play the odds." *Chicago Tribune*, Sept. 6.



Events are free, unless otherwise noted. 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, Sept. 25

**Academic Senate**, 3:15-5 p.m., Schwada Classroom Office Building (SCOB) room 210. (480) 965-2222.

### Wednesday, Sept. 27

**Arizona Board of Regents**, 8 a.m.-5 p.m., Northern Arizona University. Also: 8 a.m.-5 p.m., Sept. 28. (480) 965-2222.

## Lectures

### Monday, Sept. 25

**"Cobalt as Spectroscopic Probe of Zinc Biochemistry: Models to Maquettes to Metalloproteins,"** 3 p.m., Bateman Physical Sciences Center (PS) F-101. Speaker: David L. Tierney, Chemistry Department, University of New Mexico. Sponsored by the Chemistry and Biochemistry Department. Information: (480) 965-2093.

### Tuesday, Sept. 26

**"The California Energy Debate,"** 12:10-1:10 p.m., Armstrong Hall (LAW) room 114. Speaker: Adam Chodorow. Sponsored by the Law and Science Student Association and the Center for the Study of Law, Science and Technology. Information: (480) 965-6606.

**"Ethnography and the Social Construction of Human Communication and Culture,"** 3:15-4:05 p.m., Durham Language and Literature Building (LL) room 2. Speaker: Sarah Amira de la Garza, Hugh Downs School of Human Communication, Women & Gender Studies Program. Sponsored by the School of Human Evolution and Social Change. Information: (480) 965-6214.

**"American Gospel,"** 7:30 p.m., ASU Gammage. Jon Meacham, managing editor for *Newsweek*, delivers the Jonathan and Maxine Marshall Distinguished Lecture. Sponsored by the College of Liberal Arts and Sciences. Information: (480) 965-1441.

**Art lecture**, 7:30 p.m., ASU Art Museum. Speaker: Barnaby Evans, an artist best known for "WaterFire," a sculpture that he installed on the three rivers of downtown Providence, R.I. Information: (480) 965-2887.

### Wednesday, Sept. 27

**"Reprise: The Energy Crisis That Crippled California,"** 12:10 p.m., LAW room 114. Speaker: Adam Chodorow, Sandra Day O'Connor College of Law. Sponsored by the Center for the Study of Law, Science, and Technology.

Information: (480) 965-2465.

**"Local Public Health: a First Line of Defense Against Avian Influenza,"** 2-3:30 p.m., Fulton Center, sixth-floor board room. Speaker: Jonathan Weisbuch. A colloquium sponsored by Emeritus College. Information: (480) 965-0002.

**"Modeling Multicellularity,"** 4 p.m., Biodesign Building B (BDB) Auditorium. Speaker: Timothy Newman, ASU. Refreshments at 3:45 p.m. A biological physics seminar, sponsored by the Physics Department. Information: (480) 965-4073.

**Poetry reading**, 7:30 p.m., Old Main Carson Ballroom. Poet Ilya Kaminsky, author of "Dancing in Odessa," reads from his work as part of the Distinguished Visiting Writers Series sponsored by the Virginia G. Piper Center for Creative Writing. Information: (480) 965-6018.

### Thursday, Sept. 28

**"Kevin's Last Walk: The Dangers of Binge Drinking,"** noon-1 p.m., Mercado, Downtown Phoenix campus. Speaker: Barry Adkin. R.S.V.P.: (480) 727-5266

**"The Quantum Vacuum. Casimir Forces and all That,"** 4 p.m., PS F-123. Speaker: Peter Milonni, Los Alamos National Laboratory. Refreshments at 3:40 p.m. Sponsored by the Physics Department. Information: (480) 965-0355.

**Bioethics, Policy and Law Program Film Series**, 5:15-8:30 p.m., Life Sciences Center (LS) E-104. Film: "Eternal Sunshine of the Spotless Mind." Panel discussion following film will address the topics raised during film viewing. Sponsored by the Bioethics, Policy and Law Program. (480) 965-8927.

### Friday, Sept 29

**"Engineering E. coli for Renewable Fuels and Chemicals from Biomass,"** noon, Biodesign B105. Speaker: Lonnie O. Ingram, Distinguished Professor and director of the Florida Center for Renewable Chemicals and Fuels (FCRC), University of Florida. Presented by the School of Life Sciences and the Biodesign Institute at ASU, and hosted by Roy Curtiss III, co-director of the Center for Infectious Diseases and Vaccinology. Information: (480) 727-0465.

**"Regulatory Reform and Pharmacogenomics,"** 12:10 p.m., LAW room 114. Speaker: Barbara Evans, Bioethics Center, Indiana University. Sponsored by the Center for the Study of Law, Science and Technology. Information: (480) 965-2465.

**"Feedback Loops in Linked Stream-riparian Ecosystems: Contrasting Responses to Anthropogenic versus Natural Disturbances,"** 2-3 p.m., LS E-104. Speaker: Colden Baxter, Stream Ecology Center, Biological Sciences Department, Idaho State. Sponsored by the School of Life Sciences. (480) 965-2705.

### Monday, Oct. 2

**"Light Harvesting with Dendrimers,"** 3 p.m., PS F-101. Speaker: Valeria D. Kleiman, Chemistry, University of Florida. Sponsored by Department of Chemistry and Biochemistry Department. Information: (480) 965-2093.

### Tuesday, October 3

**"Anthropology and Education,"** 3:15-4:05 p.m., LL room 2. Speaker: Teresa McCarty, A.W. Snell Profes-

or of Educational Policy Studies, College of Education. Sponsored by the School of Human Evolution and Social Change. Information: (480) 965-6214.

### Wednesday, Oct 4

**"Bittersweet: A Candid Love Story,"** 3:15-4:30 p.m., LL room 316. Professor emeritus Helen Nebeker discusses her recently published memoir, "Bittersweet." Part of the 2006-2007 ASU English Emeriti Lecture Series. Sponsored by the English Department. Information: (480) 965-7611.

**"Protein Electrostatic Switches: Conformational Changes Induced by Post-Translational Phosphorylation and pH Changes,"** 4 p.m., Biodesign B BDB Auditorium. Speaker: Matt Jacobson, University of California-San Francisco. Refreshments at 3:45 p.m. A Biological Physics Seminar sponsored by the Physics Department. Information: (480) 965-4073.

**"Justice and Immigration,"** 4:30-5:30 p.m., Old Main Carson Ballroom. Speaker: Roxanna C. Bacon, immigration law specialist. Part of the "Seeking Justice in Arizona" series, sponsored by the School of Justice and Social Inquiry. Information: (480) 965-7682.

**Law Lecture**, 6-9 p.m., LAW Great Hall. Native Hawaiian attorney Mililani Trask speaks on indigenous peoples' concerns, and international and human rights law. Sponsored by the Indian Legal Program. Information: (480) 965-6204.

### Thursday, Oct. 5

**"The Gendered Lives of Girls and Boys,"** 3-4:30 p.m., University Club. Speaker: Carol Martin, ASU. Part of the Cowden Distinguished Professor Speaker Series, sponsored by the School of Social and Family Dynamics. Information: (480) 965-6978.

**"Proximity Effect in Nanostructures,"** 4 p.m., PS F-123. Speaker: Ivan Schuller, University of California, San Diego. Refreshments at 3:40 p.m. Sponsored by the Physics Department. Information: (480) 965-0355.

### Friday, Oct. 6

**"The Rules of the Game of Plant Evolution: a Biophysical Exploration,"** 2-3 p.m., LS E-104. Speaker: Karl Niklas, Cornell. Sponsored by the School of Life Sciences. (480) 965-2705.

**"The Ghost of Ripley Arnold: How Mobility Programs Impact Sense of Community,"** 4-5 p.m., University Center, suite 480 conference room, 411 N. Central Ave., Phoenix. Speaker: Joanna Duke, ASU School of Public Affairs. Sponsored by the School of Public Affairs. Information: (602) 496-0460.

**"Islam in South Asia,"** 4-6 p.m., Coor Hall room 5536. Speaker: Richard Eaton, Department of History, University of Arizona. Sponsored by the Center for Asian Research. Information: (480) 965-7184.

**"Natural Capitalism, Path to Sustainability in Education - And a Lot Else,"** 6 p.m., Memorial Union (MU) Arizona Room 207. Speaker: Hunter Lovins, president, Natural Capitalism Solutions and *Time* magazine's 2000 "Hero of the Planet." Part of the Wrigley Lecture Series on Sustainability, sponsored by the Global Institute of Sustainability. This lecture is jointly sponsored by the Association for Advancement of Sustainability in Higher Education (AASHE) and is being held in conjunction with the AASHE annual conference. Information: (480) 965-2975.

## Going for Baroque: Herberger College gains rare Italian organ

This Italian Baroque organ, which was built by Domenico Traeri in 1742, was housed in a church near Modena, Italy, that was bombed during World War II. Before the church was razed in 1950, the organ was bought by an Austrian, who kept it in his attic for the next 50 years. The organ is now on permanent loan to ASU's Herberger College School of Music.

MARTIN PASI PHOTO



By Wendy Craft

The ASU Herberger College School of Music is home to a rare Italian Baroque organ on permanent loan to university. The organ, which was built by Domenico Traeri in 1742, is a part of the 2006-2007 MainStage Organ Series concert season.

With the installment of the Traeri organ, ASU is believed to have become one of four U.S. academic institutions – and the only campus in the Southwest – to house such a rare musical treasure. Other campuses that have Baroque organs include the Eastman School of Music at the University of Rochester, the University of California-Berkeley and Cornell University.

The instrument will be used for performance, special classes and lessons in Italian Baroque music.

"Its incorporation into the organ program already is helping to attract a higher level of applicant to the School of Music, giving the school an advantage when competing with other institutions," says Kimberly Marshall, interim director of the School of Music

and Goldman Professor of Organ.

Before its arrival in Tempe, the Traeri organ made a fateful journey. The organ was housed in a church near Modena, Italy, that was bombed during World War II. Before the church was razed in 1950, the organ was bought by an Austrian, who kept it safe in his attic for the next 50 years.

Despite the environmental challenges the organ has faced, it has survived nearly completely intact, with just one of its 300 pipes needing to be replaced. The Traeri organ was brought to the United States in 2004 by one of the foremost American organ builders, who restored it to its original condition.

"Martin Pasi brought it to his Seattle workshop," Marshall says. "It's amazing to realize that the organ was built in Italy in the year after Vivaldi's death."

In addition to the history and prestige the organ brings to ASU, the instrument has a distinct and delightful sound. One of the most recognizable differences between the German-made Fritts organ, which occupies Organ

Hall, and the Traeri organ is that the Fritts is more intellectual and organized in orientation; the Traeri delivers a sound that really is reflective of singing voices.

"Although small, the Traeri organ encompasses a full harmonic spectrum, and its six registers deliver rich sounds of great variety," Marshall says. "The music of Cavazzoni, Gabrieli and Frescobaldi will be recreated in Organ Hall as it can be heard on historical instruments in Italy today. The organ undoubtedly is an invaluable addition to our New Music program."

The official dedication of the instrument that includes the highest concentration of the Traeri organ is the March 11 MainStage concert.

For MainStage Organ series tickets, visit the Web site (<http://mainstage.asu.edu>) or call the Herberger College Box Office at (480) 965-6447. All concerts are held in Organ Hall in the School of Music on the Tempe campus.

Craft, with the Herberger College of Fine Arts, can be reached at (480) 965-0478 or ([wendy.craft@asu.edu](mailto:wendy.craft@asu.edu)).

## Miscellaneous

### ■ Tuesday, Sept. 26

**"Creating Connections for Success,"** 11:30 a.m.-1:30 p.m., Memorial Union (MU) Alumni Lounge 202. Speakers: Maria Allison, Division of Graduate Studies; Wilson Francisco, Chemistry and Biochemistry Department; Caroline Turner, Division of Educational Leadership and Policy Studies. Sponsored by the Latina (o) Graduate Student Alliance, Division of Graduate Studies, Department of Chicana/o Studies, Intergroup Relations Center, Graduate and Professional Student Association, Chicano/Latino Law Student Association, Chicano Faculty and Staff Association and Hispanic Research Center. Information: (480) 965-3048.

**Financial Planning Workshop,** noon-1 p.m., MU Ventana Room 226A. Presenters: Elizabeth Symons and Dennis Ederer. Light refreshments will be served. Sponsored by University Career Women. R.S.V.P. by Sept. 24 to (penny@asu.edu).

### ■ Wednesday, Sept. 27

**Exhibits@Noon,** noon-1 p.m., ASU Libraries. Sponsored by ASU Museums, Galleries and Collections Committee. Information: (www.asu.edu/museums).

**"Effective Résumés and Cover Letters,"** 2:40-3:30 p.m., MU Kaibab Room 208E. Sponsored by Career Services. Information: (480) 965-2350.

### ■ Thursday, Sept. 28

**"Interviewing,"** 3:40-4:30 p.m., MU Apache Room 221. Sponsored by Career Services. Information: (480) 965-2350.

### ■ Friday, Sept. 29

**Astronomy Open House,** 8-10 p.m., Bateman Physical Sciences Center (PS) H Wing (fifth floor) roof. Information: (480) 965-7652 or (http://eagle.la.asu.edu/openhouse).

### ■ Monday, Oct. 2

**"International Student Job Search,"** 3:30-4:30 p.m., MU Santa Cruz Room 213. Sponsored by ASU Career Services. Information: (480) 965-2350.

### ■ Thursday, Oct. 5

**18th Annual Supplier Showcase,** 9:30 a.m.-4 p.m., on the mall between Memorial Union (MU) and Administration Building (ADM) on the Tempe campus. Also: 9:30 a.m.-3 p.m., Oct. 6. Sponsored by Purchasing and Business Services. Information: (480) 965-3271.

## Entertainment

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

### ■ Saturday, Sept. 23

**Danwen Jiang,** violin, Siegert Rampe, harpsichord, 7:30 p.m., Katzin Concert Hall.\*

### ■ Sunday, Sept. 24

**"Blowup,"** 2 p.m., Phoenix Art Museum, 1625 N. Central Ave., Phoenix. Paul Michael Privateer, associate professor of Film and Media Studies at ASU, discusses the film. Information: (602) 257-1880.

**Pianist Jan Thompson and Friends,** 2:30 p.m., Katzin Concert Hall.\*

**"The King of Instruments Meets the Instrument of Kings,"** 2:30 and 7:30 p.m., Organ Hall. Enjoy the first performance on an Italian Baroque organ built by Domenico Traeri in 1742, on permanent loan to ASU.\*

### ■ Wednesday, Sept. 27

**"An Evening of Comedy with Jay Leno,"** 8 p.m., ASU Gammage. The event, hosted by the National Association of Industrial and Office Properties (NAIOP) and SkySong in partnership with the ASU Foundation, will benefit ASU's newest real estate degree program, the Master of Real Estate Development (MRED). Tickets: \$150. Information: (480) 727-7582.

### ■ Friday, Sept. 29

**"Godspell,"** 7:30 p.m., Evelyn Smith Music Theatre. The musical, one of the most popular of all time, tells the story of the last seven days of Jesus Christ's life according to the Gospel of St. Matthew. Other performances: 7:30 p.m., Sept. 30, Oct. 4, 6-7; 2 p.m., Oct. 1, 8.\*

### ■ Wednesday, Oct. 4

**Coffee at Kerr, 10:30 a.m., ASU Kerr Cultural Center, Scottsdale.** The Arizona Opera Co. offers previews of its upcoming production of "MacBeth." 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.

### ■ Thursday, Oct. 5

**"Overture to a New Season,"** 7:30 p.m., ASU

Gammage. Performing: ASU Sinfonietta and Wind Ensemble.

## Exhibitions

**Archives, Luhrs Gallery** — 8 a.m.-5 p.m. Monday-Friday. Hayden Library, fourth floor. Information: (480) 965-3145.

Through Oct. 13, "Palm Leaf Manuscripts of the Guardian of the Flame Collection."

**ASU Art Museum, Nelson Fine Arts Center** — 10 a.m. - 9 p.m., Tuesday; 10 a.m. - 5 p.m., Wednesday - Saturday. Information: (480) 965-2787.

Through Sept. 23, "Seeing Ourselves." The exhibit comprises more than 50 artworks that show the different ways artists depict themselves and their subjects. There also will be computer kiosks with image-morphing software, costume and graffiti walls, and a life-sized, interactive portrait.

Through Sept. 30, "Art Inspires Music." Local independent musicians recently responded to works of art from the ASU Art Museum's permanent collection with original musical compositions for this installation. Museum visitors can engage in music and visual art at music listening stations within the interdisciplinary space of the museum's American Gallery.

**ASU Gammage** — 1-4 p.m., Monday. Information: (480) 965-6912.

Opens Oct. 4, Sun Lakes Watercolor Club.

Through Oct. 1, Photography by Rhet Andrews; acrylic on canvas/board by Jams Angel.

**ASU Kerr Cultural Center** — 10 a.m. - 5 p.m., Monday-Friday and during performances at 6110 N. Scottsdale Road, Scottsdale. Exhibition hours are subject to change. Information: (480) 596-2660.

Opens Oct. 2, "Acrylic & Watercolor Florals and Landscapes by Thia King." King received a degree in art from ASU and has been painting since 1952. Reception: 7-9 p.m., Oct. 5.

**The Galleria** — 7:30 a.m.-6 p.m., Monday-Friday, located in Mercado Building C, 502 E. Monroe St., Phoenix. Information: (480) 965-3046.

Opens Oct. 2, "CommunityArts in Dialog and Action." A combined art exhibit of 16 artists featuring all art mediums, including glitter and found objects. The exhibit can be viewed during First Friday from 6-9 p.m., Oct. 6.

Through Sept. 29, In celebration of Hispanic Recognition Month, the Galleria features an exhibit of pastels by Sandra Ortega.

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

Opens Sept. 25, "PRINTSTRAVAGANZA II." The second annual juried student print show at ASU sponsored by the Printmaking Student Association. The exhibit is open to all ASU undergraduate and graduate students with work in any traditional and or nontraditional print medium. Reception: 7-9 p.m., Sept. 25.

**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 Sept. 25, David Jones, master's degree in fine arts, drawing.

Opens Oct. 2, Jinsoo Song, master's degree in fine arts, ceramics.

**Interdisciplinary Arts and Performance Gallery** — 11 a.m.-2 p.m., Monday-Thursday, University Center Building, room 228, West campus. Information: (602) 543-2787. Tours: (602) 543-8152.

Opens Sept. 26, "Shared Visions: India, Mexico & Cuba." An interdisciplinary visual art exhibition exploring Caribbean and Indian cultures, curated by Leandro Soto. Reception: 7 p.m., Sept. 26.

**Northlight Gallery** — 7-9 p.m., Monday; 10:30 a.m.-4:30 p.m., Tuesday - Thursday; 12:30-4:30 p.m., Saturday, Matthews Hall. Information: (480) 965-6517.

Through Sept. 30, "Children of the Borderlands, 2006." Features the work of ASU students in the Walter Cronkite School of Journalism and Mass Communication who documented various aspects of life near the border of the United States and Mexico.

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

Opens Sept. 25, "New Perceptions Through the Past." This exhibition is a collection of the work completed in the non-silver class during the past spring semester. Works include mediums of cyanotype, van dyke and gum bicromate. Reception: 7-9 p.m., Sept. 25.

Opens Oct. 2, Intercollegiate Metals Exhibition. The Intercollegiate Metals Exhibition is a group show incorporating work from a variety of university metals and jewelry departments from across the United States, including ASU. Work will include that of undergraduate and graduate students, as well as work produced by faculty. Reception: 7-9 p.m., Oct. 2.

**Tilt Gallery** — 1-5 p.m., Saturday. Also open first and third Fridays: 6-10 p.m., Oct. 20; 6-11 p.m., Nov. 3; 6-10 p.m., Nov. 17. Also by appointment, 919 West Fillmore St., Phoenix. Information: (602) 716-5667.

Opens Oct. 6, "The Universe Within: The Microscopic Worlds of Cell Biology." Original images of cellular order and dynamics from light and electron microscopy by Robby Roberson, ASU associate professor, School of Life Sciences. Reception: 6-11 p.m., Oct. 6.

## In FOCUS



"Pooch," a 90-by-264-inch oil on canvas, was painted in 2004 by Oscar Oiwa. It is part of Oiwa's first U.S. exhibition, titled "Gardening with Oscar Oiwa," hosted by the ASU Art Museum from Oct. 14-Feb. 13. An opening reception with the artist will take place from 6-8 p.m., Oct. 13.

# ASU Art Museum plays host to first U.S. exhibition of Oscar Oiwa, Oct. 14

By Denise Tanguay

The ASU Art Museum will present the first U.S. exhibition of paintings by Oscar Oiwa, the Brazilian-born artist of Japanese heritage who is among the most accomplished painters recording the impact of globalization on society. "Gardening with Oscar Oiwa" runs from Oct. 14-Feb. 13, with an opening reception with the artist scheduled for 6-8 p.m., Oct. 13.

The exhibition includes nine paintings of scenes of cities on the precarious edge of oblivion, presented in modules 90 inches tall by 45 inches wide. Oiwa is influenced by Japanese art and architecture, and Western art in various forms, including Anselm Keifer, Claude Monet and science-

fiction films. His imagery reflects the passive acceptance of change and the gradual deformation of the environment, especially of cities.

"Oiwa is not the first artist to record the impact of globalization but is among the most accomplished, not only for his considerable skill as a painter but for the complexity of his view of the transformations that have occurred as a result of unbridled human ambition," says Marilyn Zeitlin, the ASU Art Museum's director and chief curator. "His paintings have a lingering lyricism, suggesting that beauty persists in spite of what humankind has done to obliterate it."

Oiwa, a native of São Paulo, Brazil, has lived in Tokyo and London, and he now lives in New York. He

received a Guggenheim fellowship in 2002 and made his debut at the 1991 São Paulo International Biennial at the age of 25. That same year, he earned his bachelor's degree from the University of São Paulo's School of Architecture and Urbanism.

Playing host to Oiwa's first U.S. exhibition falls within the ASU Art Museum's mission to interpret, exhibit and document Latin-American contemporary art that engages global issues. The subject of Oiwa's work also ties into the museum's "New American City" exhibition, which continues through Jan. 27.

Tanguay, with the Herberger College of Fine Arts, can be reached at (480) 965-7144 or (denise.tanguay@asu.edu).



TOM STORY PHOTO

## Face time

ASU President Michael Crow, left, and research assistant Abraham Karam from the School of Life Sciences stand next to a time capsule during a ceremony at the Old Main Lawn on the Tempe campus Sept. 20. The time capsule was assembled to commemorate ASU's reaching \$200 million in research expenditures during the past year. The capsule will be opened when ASU research expenditures reach \$1 billion.

## ASU-sponsored fair provides educational value for teachers

By Chris Lambrakis

Innovation, creativity and sharing with the education community is what the annual Education Fair, sponsored by ASU's School of Educational Innovation and Teacher Preparation, is all about. ASU wants K-12 educators to get on the bus for its annual fair from 8 a.m.-4:30 p.m., Oct. 7, at ASU's Polytechnic campus.

The fair, which takes place in the Student Union ballrooms and the Agribusiness Center classrooms, provides opportunities for K-12 educators to enhance educational innovation through networking and resource sharing among community partners, educators and university students.

The fair is for teachers of all experience levels.

Donetta Van Haren, a veteran teacher of 26 years, finds the fairs informative.

"I feel like you can always learn more about teaching and experience other ways of doing things to expand your teaching skills and approaches to the many types of learners," she says.

Fair attendees will have many opportunities throughout the day to gather new ideas, information and free items. Workshops and breakout sessions are available, and more than 30 community partners will participate in the fall event, including the Desert Botanical Garden, the American Red Cross, the Arizona Museum for Youth, Leapfrog School House, Riparian Institute, Science is Fun and many more.

SRP and Arizona Foundation for Resource Education are the primary sponsors of the event.

Local teachers and students will demonstrate their creative ideas in "Make 'n' Take" activities, and topics for sessions will include:

- K-12 classroom management and techniques.
- Curriculum content.
- Cross-curriculum strategies to increase student achievement.
- Curriculum-based field trip information.
- Grant writing.
- Creating partnership and funding opportunities.

The breakout sessions presented by local educators can be used to meet the professional development requirements for many local districts. These sessions will range from 45-90 minutes and will cover a wide range of content, including science, math, reading, social studies, art, educational games and more. Each session emphasizes the use of community resources in the classroom and content is aligned with state academic standards.

"The workshops and session are presented in a way that addresses current issues and teaching styles that add to my current knowledge of teaching skills," says Van Haren, who works for the Miami Unified District in Arizona. "It's also very valuable to network with other teachers and professionals in education."

Registration for the entire day is \$25 before the event and \$35 at the door. Full-time education students at ASU, Central Arizona College or in the Maricopa Community College system can attend for free with a current student identification card.

Check-in will be from 7:30-9 a.m. in the Student Union. To register, visit the Web page ([www.poly.asu.edu/edfair](http://www.poly.asu.edu/edfair)). For more information, contact Debi Molina-Walters at (480) 727-1510 or ([drmo@asu.edu](mailto:drmo@asu.edu)).

Lambrakis, with Public Affairs at the Polytechnic campus, can be reached at (480) 727-1173, or ([lambrakis@asu.edu](mailto:lambrakis@asu.edu)).

## In BRIEF

### Hole-y cow: Casey notches record payday

Former ASU golf standout Paul Casey turned in a record-setting performance Sept. 17 to win the World Match Play Championship in Wentworth, England.

Casey's victory earned him the richest prize in golf – about \$1.88 million – and sends him to the Ryder Cup with the biggest win of his career.

Casey never trailed in his final 71 holes of a marathon week, winning the final five holes against Shaun Michael for a 10-and-8 victory, the largest margin of the final match in the 43-year history of the World Match Play Championship.

Casey played just 126 holes en route to the title, a record for fewest holes over four 36-hole matches. Ian Woosnam and Pdraig Harrington each played 128 holes in 2001.

"None of the matches were easy, even though the scores may not have reflected that," says Casey, a 29-year-old from England who grew up about 15 minutes away from Wentworth. "I was happy to just make the final. If I won, it was purely a bonus."

His prize was the largest of any official golf tournament in the world.

While at ASU, he posted a distinguished amateur career. He was the first man to win three consecutive Pac-10 championships (1998, 1999 and 2000). In 2000, he broke the championship scoring record held by Tiger Woods (18 under par) with a 23-under-par 265.

### Center honors 5 Arizona businesses

The Spirit of Enterprise Center at ASU's W. P. Carey School of Business has announced the winners of its 2006 Spirit of Enterprise Awards.

The awards, which celebrate ethics, energy and excellence in entrepreneurship, were handed out to five businesses at a luncheon Sept. 20 at the Arizona Biltmore Resort & Spa. The awards are sponsored by Edward Jones, the Rich Dad Co. and Monster.

The five honorees are:

- AIR Marketing of Tempe.
- Complete Print Shop Inc. of Phoenix.
- Data Doctors Computer Services of Tempe.
- DLC Resources Inc. of Phoenix.
- Grand Canyon Railway of Flagstaff.

"The companies receiving the Spirit of Enterprise

### Always leave 'em smiling

Patricia Arredondo, left, associate vice president in University Student Initiatives at ASU, smiles during Dan Koestner's presentation at the formal opening ceremony of the first phase of Hassayampa Academic Village on the Tempe campus Sept. 15. Koestner is a resident assistant at the Hassayampa Academic Village.

TOM STORY PHOTO



Awards are leaders in their businesses and in the community," says Mary Lou Bessette, director emerita of the Spirit of Enterprise Center. "Their high standards of leadership and service set examples that give our students the opportunity to study entrepreneurship and learn from people who have built their dreams into successful businesses."

A newly designed award sculpture was unveiled as part of the Spirit of Enterprise 10th anniversary celebration. The original design is the work of Cave Creek artist Bill Greaves of Concept West.

### Speaker poses 'transhuman' question

According to the Bible, God formed Adam, the first man, from the dust of the Earth and breathed the breath of life into his nostrils.

In his 2005 novel, "Never Let Me Go," Kazuo Ishiguro tells the story of three young adults who grew up in a private school in England, where they were never told the dark secret of their existence: that they were clones, born to sacrifice themselves for others.

Has humanity already made the long journey from creation to clone?

Leda Cosmides, co-director of the Center for Evolutionary Psychology at the University of California-Santa Barbara, will discuss this topic in a free lecture at 7:30 p.m., Oct. 10, in Old Main's Carson Ballroom on ASU's Tempe campus.

The lecture, titled "Are We Already Transhuman? Evolutionary Psychology and Human Nature," is sponsored by the Center for the Study of Religion and Conflict. It is part of the Templeton Research Lectures, a four-year interdisciplinary project called "Facing the Challenges of Transhumanism: Religion, Science, Technology."

The project, which is supported by a grant from the Metanexus Institute, looks at the supposition that humanity stands on the precipice of a new phase in human evolution, referred to as "posthumanism" or "transhumanism."

This new phase, in which humans become their own makers, emerges because of the confluence of new development in the life sciences, technology and neurosciences.

The lecture is free and open to the public, but tickets are required. For tickets or lecture information, call (480) 727-6736 or visit the Web site ([www.asu.edu/csrc](http://www.asu.edu/csrc)).

## Researchers study organisms' potential to combat diseases

(Continued from page 1)

"Plants have been demonstrated to be very efficient producers of proteins," Cardineau says. "Plant production systems for therapeutic proteins have the potential of reducing costs – and, as a result, provide a significant benefit."

The proposed protein has commercial value, but the project will serve as a model for the expression of valuable proteins in plants that also could be used to improve nutrition and provide alternative sources of energy, among many other potential uses.

Vermaas' and Rito's project will attempt to extract cyanobacteria-produced pigments that can be used for various purposes.

Vermaas says the goal is to develop an efficient and cost-effective method to harvest compounds produced by cyanobacteria (blue-green algae) without killing the organism.

"With our system, we are trying to use cyanobacteria as 'milking cows' that can provide the desired substances more than one time," Vermaas says.

Working together on projects like these will open many doors for students to experience how science can have a direct impact in society, Rito says.

Sanchez, with Media Relations, can be reached at (480) 965-9579 or (adriana.sanchez.1@asu.edu).

## Tiny fuel cell holds promise for more 'juice'

(Continued from page 1)

cells, which also are safer for the environment, was described at the 232nd national meeting of the American Chemical Society.

Because higher hydrogen production translates into more energy for longer battery life, one of the challenges in fuel cell development is maximizing the concentration of hydrogen in the fuel source.

Many different hydrogen sources have been explored for use in fuel cells, including metal hydride "sponges" and hydrocarbons such as gasoline, methanol, ethanol and even vegetable oil.

Recently, borohydride has shown promise as a safe, energy-dense hydrogen storage solution. Unlike the other fuel sources, borohydride works at room temperature and does not require high temperatures to liberate hydrogen, Gervasio says.

The team at ASU is focused on a key enabling technology, the chemistry for developing useful fuels with higher energy density than battery metals.

Using novel chemical additives, Gervasio and his associates are working on a way to increase the useful hydrogen storage capacity of the borohydride solution two to three times the hydrogen capacity of simple aqueous sodium borohydride solutions that are being explored for fuel cell development.

These additives help to prevent the solution from solidifying, which could potentially clog or damage the hydrogen generator and cause it to fail.

In developing the prototype fuel cell system, the researchers housed the solution in a tiny generator containing a metal catalyst composed of ruthenium metal. In the presence of the catalyst, the borohydride in the water-based solution reacts to form hydrogen gas.

The hydrogen gas leaves the gas generator by moving across a special gas/liquid separating membrane to the fuel cell component, while the membrane retains the liquid in the catalytic gas generator. The hydrogen gas then combines with oxygen inside the fuel cell to generate water and electricity, which can be used to power a portable electronic device.

The byproduct of the reaction is a safe, nontoxic watery solution that remains trapped and secure in the fuel cell container.

Although the battery generates heat, it generally doesn't get any higher than body temperature, Gervasio says. And because the hydrogen generated by the device is matched by the rate of hydrogen consumption, there's virtually no free hydrogen gas during power generation, making the fuel cell safe, he says.

Although the fuel cell itself is reusable and doesn't need recharging, the borohydride fuel eventually is depleted. The fuel cell can be rejuvenated simply and quickly by adding a new cartridge of borohydride, Gervasio says.

While the prototype fuel cell is the size of a shoebox, it can easily be scaled down to the size and weight of a small, conventional battery, Gervasio says.

Commercialization could take as many as three to five years, so current technology users may need to put up with their regular batteries and rechargers for a while longer, he says.

Funding for this study was provided by the National Science Foundation through the Ira A. Fulton School of Engineering's Connection One program and by KITECH, the Korean Institute of Technology, a Korean national laboratory in Incheon, Korea.

Caspermeyer, with the Biodesign Institute, can be reached at (480) 727-0369 or (joseph.caspermeyer@asu.edu).

## Discovery of oldest infant skeleton helps fill gaps in human timeline

(Continued from page 1)

Alemseged has been carefully preparing the skeleton for the last five years by chipping away sandstone from the fragile bone fragments. He still has several years of work to complete it.

The skeletal remains include the skull and jaws with teeth, and parts of the shoulders, spinal column, ribs, right arm, fingers, legs and left foot.

Analysis of the skeleton by Alemseged and his team has shown that its lower body is adapted for bipedal locomotion, like that of adult *Australopithecus*, while the upper body – especially the scapula, or shoulder blade – exhibits some gorilla-like features, Kimbel says. However, there continues to be debate about the interpretation of these features and what was the preferred mode of locomotion for this species.

Some researchers have argued that the ape-like features of the upper limb are just retained from a common ancestor but are not functional, while others argue the features are functional and indicate that the species spent some time climbing trees.

"I don't think a 3-year-old adapted to bipedality is going to spend much time

climbing in trees, but the mix of features in this skeleton is going to stir up the debate about locomotion in early *Australopithecus*," Kimbel says.

Alemseged uncovered a hyoid bone in the skeletal remains, which is the first time that bone has been discovered in the early part of the hominin fossil record.

The hyoid bone is located in the larynx, or "voice box," and supports muscles of the throat and tongue involved in speech. The one discovered in the infant appeared to be primitive and is more similar to hyoids found in apes than humans, according to Spoor, who has studied the evolution of this region in humans and other primates.

The findings are expected to provide insights into the growth and development cycle of *Australopithecus afarensis* since the infant remains will be compared to Lucy, a remarkably complete adult female skeleton which was among the first *Australopithecus afarensis* to be discovered.

Lucy dates back 3.18 million years and was discovered in 1974 in the Hadar region of Ethiopia by Donald Johanson, who directs ASU's Institute of Human Origins.

Understanding growth and development and how it has changed in human ancestry is central to the study of human evolution, Kimbel says.

He also adds that information about growth and development can help answer questions about the mechanisms that drove changes in body form that we see in the fossil record.

"Most differences between humans and their ancestors can be associated with developmental changes," Kimbel says.

The genetic makeup of humans is so similar to that of our close relatives, such as the chimpanzee, that most anatomical differences are explained by changes in the pattern of growth from infant to adult.

The infant Dikika skeleton is expected to provide an important reference point that will help researchers explain how changes in growth and development contributed to the evolution of humans.

Alemseged announced the publication of the research on the Dikika skeleton at a Sept. 20 press conference in Addis Ababa, Ethiopia.

Jenk, with Media Relations, can be reached at (480) 965-9690 or (daniel.jenk@asu.edu).



ASU professor William Kimbel is part of the team that studied the skeleton of a female *Australopithecus afarensis*, the same species as the well-known "Lucy," from Dikika, Ethiopia.

## EMPLOYMENT

The following positions are available as of Sept. 19 and are subject to change. All positions will be advertised in *Insight* only once. 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 Tempe, East and downtown Phoenix campuses is available on the Human Resources Web page at (www.asu.edu/hr/jobs), or the Telecommunication Device for the Deaf at (480) 965-3002. Announcements for West campus openings are available on the West Human Resources Web page (http://www.jobsatasu.com) and on the West Dial-a-Job Hotline at (602) 543-5627.

For complete position descriptions/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 5 p.m. on that date. Positions are 100% FTE unless otherwise noted. Codes below are: (C) – Classified; (A) – Administrative; (S) – Service Professional; #O – position is open to the public; #U – position is limited to current ASU, Northern Arizona University, University of Arizona and Arizona Board of Regents employees.

### STAFF POSITIONS

#### TEMPE CAMPUS

##### Professional

**Accounting Specialist** (C)/#O-125636 – Administrative Services (Sept. 29; every week thereafter until search is closed).

**Assistant Director Career Services** (S)/#O-125672 – Career Services (Oct. 15).

**Assistant to Vice President** (S)/#U-125702 (Sept. 29; every week thereafter until search is closed).

**Business Manager** (C)/#O-125621 – Psychology (Oct. 2; every week thereafter until search is closed).

**Coordinator** (S)/#O-125654 – CRESMET (Sept. 29; every two weeks thereafter until search is closed).

**Director of Campus Health** (A)/#O-125722 – Campus Health Services (Oct. 18; every two weeks thereafter until search is closed).

**Management Intern** (S)/#O-125698 – Undergraduate Admissions (Sept. 27; every week thereafter until search is closed).

**Producer/Writer TV** (C)/#O-125728 – Eight/KAET-TV (Oct. 10; every two weeks thereafter until search is closed).

**Research Specialist Senior** (C)/#O-125727 – Tech-Based Learning and Research (Sept. 29; every two weeks thereafter until search is closed).

**Student Recruitment/Retention Specialist** (C)/#O-125699 – Curriculum & Instruction (Sept. 29; every week thereafter until search is closed).

**Student Retention Coordinator** (S)/Req. #0700264 – University Registrar (Sept. 26).

**Student Support Specialist** (C)/#O-125554 – American Indian Student Support Services (Sept. 29; every week thereafter until search is closed).

### Technical and computer

**Director, Information Technology Services** (S)/#O-125723 – College of Law (Sept. 29; every two weeks thereafter until search is closed).

### Administrative support

**Administrative Associate** (C)/#O-125230 – Chemical Engineering (Sept. 29; every two weeks thereafter until search is closed); (C)/#O-125733 – Multicultural Student Services (Sept. 27).

**Secretary Administrative** (C)/#O-125708 – Emeritus College (Oct. 13; every two weeks thereafter until search is closed).

### Service/field craft/maintenance

**Custodian** (C)/#O-125705 – Custodial Services (Sept. 29; every week thereafter until search is closed); (C)/#O-125734 – Custodial Services (Sept. 29; every week thereafter until search is closed).

**HVAC Service Worker** (C)/#O-125686 – Mechanical Services (Sept. 29; every week thereafter until search is closed).

**Materials Supply Storekeeper** (C)/#O-125604 – Chemistry & Biochemistry (Sept. 29; every two weeks thereafter until search is closed).

### POLYTECHNIC CAMPUS

#### Professional

**Nurse Senior** (C)/#O-125746 – Student Health (Oct. 4).

### WEST CAMPUS

#### Clerical and secretarial

**Secretary Administrative** (C)/#125668 – New Interdisciplinary Arts & Sciences (Sept. 29; every two weeks thereafter until search is closed).

**Office Assistant/Receptionist** (C)/#0700375 – Human Resources (Oct. 6).

### ACADEMIC POSITIONS

#### TEMPE CAMPUS

##### Faculty

**Global Institute of Sustainability** – Assistant Professor/JO#8725 (Nov. 20; every two weeks thereafter until search is closed).

**Supply Chain Management** – Assistant/Associate/Full Professor/JO#8726 (Nov. 1; every two weeks thereafter until search is closed).

## ASU senior adds Asparagus Scholarship to full academic plate

By Chris Lambrakis

Daniel Sanchez, a senior in agribusiness at ASU's Morrison School of Management and Agribusiness, has received the Asparagus Scholarship, a \$3,000 award given to students who are pursuing a degree leading to a career in the grocery industry. He is the first Morrison School student to ever receive the national scholarship.

The Asparagus Scholarship is awarded by the Asparagus Club, which was founded in 1909 in Baton Rouge, La. The club has awarded more than \$800,000 in scholarships during the last 15 years.

The Asparagus Club annually grants scholarships to a limited number of students from across the country.

Sanchez, a native Arizonan from Gilbert who plans to graduate magna cum laude in May, competed against applicants from several other top food marketing schools in the country, such as Cornell, Michigan State, Western Michigan and St. Joseph's University.

It's not the first or the only scholarship for Sanchez. He has received the Beth DeGross Memorial Scholarship, the McGab Agribusiness Scholarship, the Robert Lytle Scholarship and the Arizona Food Marketing Alliance Food

*"I have been able to learn about the food chain and supply chain in the industry, and I hope to use what I learned in a category manager or food merchandiser position with a food company."*

– ASU senior Daniel Sanchez

Professionals Scholarship.

"I have benefited greatly by this and all scholarships by helping take the burden of paying for school off my shoulders and letting me only concentrate on my school work," he says.

During his academic career at ASU, Sanchez has been selected to participate in the Food Marketing Institute's annual show in Chicago and also the National Grocers

Association trade show in Las Vegas.

"At these shows, I was quite impressed with Daniel's ability to converse easily with food industry executives," says Renee Hughner, an assistant professor in the Morrison School. "At dinner seated next to industry professionals and while touring the show floors, Daniel was able to confidently and respectfully converse with people much more experienced than he. He conveyed a genuine interest in the industry and the people whom he met."

In addition to going to school, Sanchez has been working at Albertsons grocery store as an assistant meat manager. While working and attending school full time, he made the dean's list every year and has been recognized as an outstanding leader by the Morrison School.

All of his experiences have prepared him well for his future in the grocery industry.

"The grocery industry is a very challenging, innovative industry," Sanchez says. "Groceries are a necessity to consumers, because the days of growing one's own food are gone. I have been able to learn about the food chain and supply chain in the industry, and I hope to use what I learned in a category manager or food merchandiser position with a food company."

Lambrakis, with Public Affairs at the Polytechnic campus, can be reached at (480) 727-1173 or (lambrakis@asu.edu).

## Former ASU football standout McDonald shows he's not a quitter

By Lisa Campbell

Shaun McDonald is not a quitter.

While most students make frequent driving commutes to show up for class, McDonald took commuter flights, because the recent ASU alumnus also is a professional football player for the St. Louis Rams.

He began his college education straight out of high school upon receiving a full scholarship to play football at ASU. He had a successful career at ASU, finishing it with 2,867 yards receiving – just 126 yards shy of the school career record.

In 2003, he left ASU to play professional

football and was drafted by the Rams in the fourth round of the NFL draft. But



Shaun McDonald

to her.

"Corinne played a big role in my acad-

emic career and deserves recognition," McDonald says. Through Corte's help, as well the support of his friends and family, Shaun registered as a full-time ASU student for this past spring semester.

He admits that being a full-time student at ASU and a professional football player in another city was difficult at times. His flights back and forth left him exhausted. But he pushed forward and finished all the requirements necessary to graduate this past semester, earning a 4.0 GPA along the way.

"While Shaun was a student-athlete at ASU, he was diligent about his academ-

ics, as well as the game of football," Corte says. "He took both seriously, which is one of the reasons for his success in the NFL and the driving force for his return to graduate."

She says that diligence makes him a role model for other student-athletes.

"When speaking to the current ASU football student-athletes, I use Shaun as an example of what needs to be done to be successful as an ASU athlete and student – and if possible, at the next level," Corte says.

Campbell, with Media Relations, can be reached at (480) 965-9370 or (lisa.campbell@asu.edu).

## In the Spotlight

**Debra Friedman**, dean of ASU's College of Public Programs and professor of public affairs, was named to a two-year term on the Phoenix Human Services Commission. As a commissioner, Friedman joins elected public officials, representatives of community and neighborhood organizations in advising the Phoenix Human Services Department.



Debra Friedman

The effects of welfare reform policies on quality childcare, health care, affordable housing, livable wages and transportation and the uncertainty of funding for social service programs are challenges the commission will address in partnership with the city of Phoenix. Friedman leads the College of Public Programs, anchoring the ASU Downtown Phoenix campus with about 1,500 undergraduate and graduate students. The college has more than 30 academic programs, the largest of which is social work, and also includes the schools of public affairs and community resources and development.

**Linda Pastori**, Eight/KAET-TV's associate director of development, has been named the new chairwoman of the Ahwatukee Foothills Chamber of Commerce. Pastori will oversee the chamber's mission of advancing community development and progress. Her responsibilities include coordinating volunteer efforts of individuals and businesses to help meet the area's economic, civic and social needs.



Linda Pastori

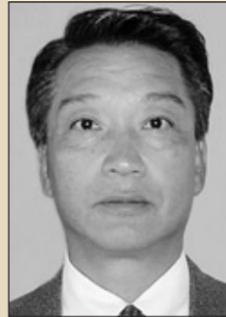
Since joining the Arizona public television station in 2004, Pastori's innovative strategies and programs – "Small Business Partners," "Signal Society" and "Studio Club" – have strengthened community involvement and resulted in some of the largest development revenue increases in the station's history.

Pastori also has worked for two other public television stations. During her 16-year career in marketing and development, she has raised millions of dollars for nonprofit organizations.

**Charles Arntzen**, co-director of the Biodesign Institute's Center for Infectious Diseases and Vaccinology, has been honored with a Centennial Award from the Botanical Society of America in recognition of his contributions to the advancement of the plant sciences. The BSA was formally established in 1906 and has been a bastion of support for the plant sciences and developing plant scientists over the past century.

Arntzen received the award at a special centennial reception hosted by Schneider and Peter H. Raven, past president of the BSA, during the Botany 2006 Conference.

**Bong Wie**, a professor in the mechanical and aerospace engineering department in the Ira A. Fulton School of Engineering has won the 2006 Mechanics and Control of Flight Award from the American Institute of Aeronautics and Astronautics (AIAA). The organization bestows the honor for outstanding contributions to the mechanics, guidance or control of atmospheric or space flight.



Bong Wie

Wie received the award in recognition of his research in advanced control of complex spacecraft involving solar-power cells, large flexible structures and agile imaging satellites equipped with control-moment gyros (high-performance actuators used for U.S. military satellites).

**Polly Pinney**, director of facilities management, was inducted as vice president for educational programs of APPA, the association serving educational facilities professionals. The induction ceremony took place during APPA's board meeting at the Campus of the Future conference in Honolulu, Hawaii.

Pinney's career in educational facilities management spans 20 years – all of those with ASU. She has been a member of APPA and its Rocky Mountain regional chapter (RMA) since she started to work in facilities management.

**Beth Tobin**, an English professor at ASU, was awarded the eighth annual Susanne M. Glasscock Book Prize from Texas A&M University for her book, "Colonizing Nature."

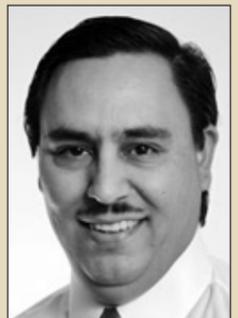
This prize comes with a cash award of \$1,000 and an invitation to speak on her research at Texas A&M.

**Andy Ortiz**, project manager for Capacity Building Initiatives with ASU's Center for Nonprofit Leadership & Management, recently was selected as a semifinalist for the United States Jaycees 10 Outstanding Young Americans program.

As a recipient of this distinction, Ortiz is recognized as one of the top 20 young leaders in the nation.

Ortiz was nominated for this honor by Hugh O'Brian, former star of stage and screen, and founder of Hugh O'Brian Youth Leadership (HOBY). Ortiz serves on the HOBY national board of trustees.

The 10 Outstanding Young Americans project exists to recognize and honor 10 Americans each year who exemplify the best attributes of the nation's young people, ages 18-40.



Andy Ortiz

**Ranu Jung**, co-director of the Center for Adaptive Neural Systems at ASU's Biodesign Institute and an associate professor in ASU's Harrington Department of Bioengineering, is the new president of the international Organization of Computational Neurosciences.



Ranu Jung

Jung was elected to a three-year term at this summer's 15th annual Computational Neuroscience Meeting in Edinburgh, Scotland, attended by more than 400 participants. The group is helping lead the efforts of research centers across the world that are pursuing this emerging field of science, and it promotes degree programs to better prepare scientists for work in this complex area. In her research, Jung uses computational neuroscience in seeking ways to improve the lives of people with neurological disabilities by developing bioengineering and computational technology that can interface with the nervous system.