Nobel laureate to help lead biomedicine at ASU
University appoints Lee Hartwell to faculty chair position in Biodesign Institute

By Joe Caspersen

Arizona State University announces the appointment of Nobel Prize winner Leland “Lee” H. Hartwell to lead an expansive effort addressing two of today’s top concerns: improving the effectiveness of health care while reducing its costs, and advancing science education.
Hartwell becomes the first Nobel Prize recipient in medicine to serve a faculty appointment at an Arizona university. He will establish and co-direct the Center for Sustainable Health at ASU’s Biodesign Institute as ASU’s second Virginia G. Piper Chair of Personalized Medicine. The new center is the latest step in the evolution of the Arizona-based Partnership for Personalized Medicine, launched by Virginia G. Piper Charitable Trust with $35 million in 2007. Piper Trust has provided an additional $2.5 million for the new center.
“Dr. Hartwell already has transformed one worldview of science, earning a 2001 Nobel Prize for insights into the genes that control cell growth, says ASU President Michael Crow. “ASU provides a dynamic environment that will support the type of big ideas he has to help shape the future of health care.”
Hartwell’s new center in the Biodesign Institute will identify biomarkers — early indicators of disease — to enable personalized, pre-symptomatic diagnoses, and it will develop tools for providing the intelligence needed for better patient outcomes.
It will interface with other Biodesign centers working on complementary aspects of these goals.

(See HARTWELL on page 7)

Bird feathers color professor’s research on duck nutrition
By Addie Lennox

The wings of many ducks are decorated with intense bands of color, while others are downright drab. Have you ever stopped to think about the significance behind the coloration of birds? Biologist Kevin McGraw has.

McGraw, an associate professor in the School of Life Sciences, part of the College of Liberal Arts and Sciences, is leading laboratory research that examines pigments and structural color and their link to nutrition in birds. The research is being funded by the National Science Foundation (NSF), and supported by Melissa Row, a post-doctoral fellow, and Alison Osip-Klein, an undergraduate at University of Rochester.

McGraw’s research grows out of his interest in understanding how and why animals display the colors they do. In previous work, for example, he discovered that foods rich in carotenoids — yellow, orange and red pigments found in plants that also function as antioxidants — can directly affect bird coloration and health.

“These studies of carotenoids and color have emerged as an excellent model for testing life-history trade-offs using a common nutritional currency,” McGraw says.

McGraw’s most recent NSF study examines how pigments in ducks play a role in their vision, health and appearance.

His group is working with 120 male and female ducks from two waterfowl species: the Mallard (Anas platyrhynchos) and the Northern Pintail (Anas acuta). At the experimental regime, the ducks are first fed a low-carotenoid “depletion diet” to flush their systems of these pigments. Then they are divided into six groups and placed on experimental diets.

(See MCGRAW on page 7)

Partnership highlights framework for responsible tourism

By Corey Schubert

The tourism industry is the world’s largest employer, and a new collaboration between Arizona State University and Clark University in Massachusetts is devoted to making it more responsible to communities.
ASU’s Megapolitan Tourism Research Center and Clark University’s George Perkins Marsh Institute are developing several international and national projects that focus on the role of travel and tourism for the social, economic and environmental prosperity of small and large communities.

With support from Southwest Airlines and other industry partners, the first project to be launched is a Social Responsibility Program for the hospitality industries of Phoenix and Scottsdale, Ariz. Set to begin this fall, the program will highlight ways in which participating organizations can better serve their communities.

(See PARTNERSHIP on page 7)
Professor earns international accolades for nature book series that teaches children to ‘look closely’

By Stephen Des Georges

Frank Serafini, an associate professor of literacy education and children’s literature at Arizona State University, is combining his passion for teaching with his love of nature photography to produce an award-winning series of children’s books.

The second in his “Looking Closely” series, “Looking Closely Along the Shore” has been recognized by the International Reading Association as a 2009 Teachers’ Choice winner.

“The “Looking Closely” series takes children on a journey of discovery by challenging young readers to guess the identity and ask questions about each of a number of close-up photos. On each page, the full photo is revealed, accompanied by a description of the habitat. The books are designed to help build problem-solving skills while also encouraging a curiosity about environments full of unexplored wonders,” Serafini writes.

“I am humbled by the honoree, as most of my works speak to teachers,” says Serafini, who earned his master’s degree in elementary education and his doctorate in curriculum and instruction from ASU. “For instructors to say they like the work, well, it’s a good thing.”

The award is actually the third in a string of honors for “Shore.” Earlier this year, the book received an honorable mention from the Society of Children’s Libraries, and also shared accolades with “Trees” as part of the J. C. Dean College of Education Featured Children’s Book.

In each of his books, including “Shore,” Serafini has the final say on which pictures are featured.

“I don’t want children to not be able to guess,” he says. “They should be able to guess at least 50 percent of the pictures – not all of the photos, because it would not be fun for me. I want the young readers to be surprised by some of the photos that are featured.”

In “Photographer’s Note” at the conclusion of “Shore,” Serafini writes: “I can spend hours wandering along the shore, through the forest, across the desert or in my garden, looking for interesting things to photograph. My destination is not a place, but rather a new way of seeing. By creating the images featured in this series of picture books, I hope to help people attend to nature, to things they have normally passed by.”

Each of the books in his series closes with a final photo on the outside back cover that invites his young readers to explore nature. In “Shore,” it is a picture of a sandy tropical beach with footprints leading toward the horizon.

“Children are naturally curious about the world around them,” says Serafini, whose photography was fed in his native New York where he hiked and snapped shots in the picturesque Finger Lakes region while growing up. “The books are designed to get children to slow down and see what’s around them. At the end of each book, there is an invitation in the text for children to look at their environment and explore and discover, to look very closely and notice things.”

And while the awards are impressive and the “crop and reveal” format of the series unique, Serafini’s journey to teaching and photography is a Renaissance tale of sorts, as his business success quietly read teacher, photographer, musician, world traveler. His teaching career was jump-started after he earned his bachelor’s degree in business administration at Fort Lewis College in Durango, Colo. He moved to the Valley in 1985 and played his guitar and waited tables along Mill Avenue, a stone’s throw from ASU’s Tempe campus, gathering a pretty good following along the way. Eventually, he landed a substitute teaching gig at a local elementary school, and it took just three days in the classroom to get hired. After teaching for three days, he signed up for a master’s in education program at ASU.

Once he completed his master’s work, it was on to doctoral studies and his doctoral program in curriculum and instruction, eventually leading to a position as an assistant professor and school teacher and another three in the Washington Elementary School District working with teachers. He later joined the Arizona State University faculty.

Serafini broke into the college ranks of teaching in 1995, working as a faculty adjunct professor of literacy at the University of Nevada, Las Vegas, and later at Northern Arizona University. In 2001, he accepted a position as assistant professor of literacy and communication sciences and disorders at the University of Nevada, Las Vegas, and left in 2008 to take his current position at ASU. At ASU, Serafini teaches undergraduate courses in language literacy and elementary schools and graduate courses in assessment, children’s literature, and reading methods and theories of literacy education.

In the meantime, he has traveled the world with his five-year-old daughter, Katie, accompanying speaker at state and regional conferences, and consulting with international governments on curriculum issues in third world countries. In addition, he has contributed articles and served on editorial boards for education’s top journals.

By Debbie Freeman

President Bush’s chief economic adviser, the chairman and chief executive officer of Mayo Clinic, and the heads of Mayo Clinic, Deloitte LLP and Caterpillar Inc. will be among those featured in the Economic Club of Phoenix speaker series this season. Each year, Phoenix-based business audiences are invited to come and hear some of the top names in business speak at the luncheon series. The second in his series is “Looking Closely Along the Shore.”

“I can remember calling my mother and telling her, ‘I have a new career move.’ I was always looking for that one thing I could do well, and this was an opportunity to make a difference in the lives of children.” – Frank Serafini, associate professor, College of Teacher Education and Leadership

ASU’s Frank Serafini has produced an award-winning series of children’s books that challenges young readers to see the world around them in new and more complete ways. The second in his series is “Looking Closely Along the Shore.”

Speaker series features former chief economic adviser

Jan. 19: Denis A. Cortese, president and chief executive officer, Mayo Clinic.
March 25: James W. Owens, chairman and chief executive officer, Caterpillar Inc.
April (date TBA): Dean’s Council of 100 Executive of the Year.
May 6: Annual Economic Outlook Luncheon.

The events take place from 11:30 a.m. to 1:30 p.m. Lunchrooms will be held at the Arizona Biltmore Resort & Spa in Phoenix, except for the November event, which will be held at the Camelback Inn.

Guests are welcome for an $80 luncheon fee. The Executive of the Year luncheon cost is $125. Funds in excess of the cost of the lunchees are used to support student scholarships and faculty research at the W. P. Carey School of Business.

For more information about the club or to reserve seats, call (480) 965-2723, e-mail wpcapecy@asu.edu, or visit the Web site www.econclubphx.org. For sponsorship opportunities, or to register groups of nine or more, contact Rhett Wilson at (480) 965-2333 or rhett.wilson@asu.edu.

Frank Serafini, associate professor, College of Teacher Education and Leadership, can be reached at (480) 965-9271 or debbie.freeman@asu.edu.
Recruiters team up with nonprofit to find young leaders

By Corey Schubert

Arizona State University recruiters treated Regina Duran as if she were the next NCAA star, but it wasn’t her jump shot or batting average that made her stand out.

They were drawn to her passion and talents in nonprofit work with New Global Citizens, a Phoenix-based group that supports young leaders as they help solve challenges faced by communities around the world.

Duran gave Duran and her father a personalized tour of ASU’s Downtown Phoenix campus, which served as a backdrop for the conversation.

“Since New Global Citizens educates, equips and mobilizes young people to help communities by partnering with grassroots organizations, we are finding local solutions to local problems across the globe. NGC has chapters in 20 states and volunteer teams in more than 80 high schools around the country. The organization supports these young leaders as they work to create sustainable change.”

“It was obvious this was going to be a good fit for her,” says Dana Newell, the director of academic services at the college. “The NGC staff and current student leaders let us know if they have a student who is interested and we connect with them. We approach high-performing students utilizing the same sort of high-touch strategy that is used to recruit student athletes.”

This can include assisting with the application and enrollment process, visiting students and their families at home, and helping them obtain scholarship funds. Newell says, Members of the college’s Student Ambassador for Recruitment (SAR) program, often play a large role in building and strengthening connections with prospective students.

“We are talking about expanding our recruitment partnership with NGC to use videoconferencing in order to reach their high school students in other states.”

Leah Laben, an NGC student who enrolled at the college, was heavily recruited by Ohio State and other universities. She became interested in ASU after learning through NGC that the university offered the only nonprofit bachelor’s degree in the country, Newell says.

“One of our STAR students and I drove to Tucson, took her out to dinner and helped her finish her application to ASU,” Newell says. “She stayed connected with both of us via Facebook while serving with AmeriCorps for a year, and just started classes here this semester.”

Luben’s initial assessment helped her realize that ASU was the right choice for her.

“Looking back, it seems only natural that one of the few schools that offered her the chance to target the remaining landing site. The Apollo 12 landing site was well worth the wait. The Surveyor 3 spacecraft, Lunar Module descent stage and Apollo Lunar Surface Experiment Package (ALSEP), along with astronaut tracks, are all visible in the images, visit the LROC Web site: http://lroc.asu.edu.

Mark Robinson, the principal investigator of LROC and a professor in the School of Earth and Space Exploration, in the College of Liberal Arts and Sciences, helps provide the following historical backdrop to the recently returned image.

After the great success of Apollo 11, NASA’s next step was honing the Lunar Module’s (LM) ability to make a pinpoint landing. Many of the future landing sites corresponded to areas with rough topography, so the LM would have to come in steeply and set down within a few hundred meters of a desired location.

Pete Conrad (commander) and Alan Bean (LM pilot) piloted the Apollo 12 lunar module (LM, Intrepid) to a landing within 200 meters (650 feet) of Surveyor 3 on Nov. 14, 1969. This proved the pinpoint landing capability. It also allowed the astronauts to collect parts from the Surveyor for engineering assessment and provided the opportunity to sample ejecta from the Clementine impact and what appeared from crater counts to be relatively young maar fields.

During the brief stay of less than 32 hours, the two astronauts performed two extra-vehicular activities (EVA), each a little less than four hours in length.

On the first EVA, they deployed an Apollo Lunar Surface Experiment Package (ALSEP), which returned scientific data directly to the Earth for more than seven years. Next, the explorers headed to the northwest to collect soil and rock samples. They collected about 35 kilograms (35 pounds) of solar samples on this first EVA.

The next day, Conrad and Bean headed out on the first lunar traverse. They traveled west, skirting around Head crater, then worked their way south to Bench crater. At both locations, the astronauts collected rock and soil samples, and photographed the interiors of the two craters.

After lunch, their second point from the LM was Sharp crater. Their next goal was a rendezvous with the Surveyor 3 spacecraft. They returned to the LM and scheduled an EVA to explore the crater from it, the spacecraft might slide downhill so they always stayed upright.

The Apollo 12 crew returned more than 32 kilograms (70.5 pounds) of lunar samples. From these precious samples, scientists learned of the Surveyor for engineering assessment and provided the opportunity to sample ejecta from the Clementine impact and what appeared from crater counts to be relatively young maar fields.

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Meetings

Monday, Sept. 14


Tuesday, Sept. 15


University Club Colloquium, noon-1 p.m., Sunday River Room, University Club. Cofounder of art history, Herberger Institute of Design and the Arts, and speaker on "Cmon Migrant, Arizona’s Original Cowboy Artist." Chief of the Buffalo Scouts. $15 reservations required. (480) 965-0701.

Wednesday, Sept. 16

“Multiscale Strategies for Modeling Peptides and Lipids,” 4-5 p.m., Arizona State University Polytechnic (AZSP), room 115. Speaker: M. Scott Shell, University of California, Santa Barbara. Sponsored by the Center for Biological Physics. Information: (480) 965-4073.

“Chlorine geochemistry of the Earth,” 4-10 p.m., Bateman Physical Sciences Center (F-173). Speaker: Jennifer Jackson, California Institute of Technology. Sponsored by the Center for Earth and Space Exploration. Refreshments served at 4:15 p.m. in PSF Lobby. Information: (480) 965-2030.

“Intelligent Transportation Systems and Their Environmental Implications,” 4-5:30 p.m., Global Institute of Sustainability (GIS), room 329. Speaker: Sarahisit Ishak, Intelligent Transportation Systems and Safety, Massachusetts Department of Transportation. The Ecosystem Engineering seminar series is jointly sponsored by the ASU Center for Environmental Fluid Dynamics and the Global Institute of Sustainability. Information: events@nsrdecosystem or jennifer.nico@yahoo.asu.edu.

Thursday, Sept. 17


Humanities lecture series explores current events

Guest lecturers will discuss and explore sex trafficking, the Holocaust and worldwide refugee, food, and labor rights in ASU’s School of Letters and Sciences Humanities Lecture Series at the Downtown Phoenix Center.

The School of Letters and Sciences provides students across ASU with the knowledge and skills to comprehend and effectively engage the changing world of the 21st century at local, national and global levels. Theory, creativity and applied learning are integrated as students build entrepreneurial opportunities inside the university and in their communities.

Rosendahl is a training coordinator for the Arizona League to End Racial Trafficking (ALERT), says each year 12,000 to 15,000 adults, men and children are illegally brought to the United States and Arizona from foreign countries.

“Human trafficking is a form of modern-day slavery and is the world’s most rapidly growing criminal industry,” Rosendahl says. “They are forced to work in a variety of labor-intensive jobs such as domestic servitude, manufacturing, construction, agricultural work, hotels, restaurants and forced prostitution.

This session will serve as an introduction to the issue of human trafficking, while exploring the intricacies of this horrendous crime.

The U.S. State Department has identified Arizona to be in the top five states for human-trafficking activity.

The lecture series schedule includes:

- Oct. 8: "Personal Reflections on Surviving the Holocaust and Life After," presented by Holocaust survivor Bernard Scher, noon, University College, 411 N. Central Ave., room 286, Phoenix.
- Nov. 12: "Refugee Situations in Iraq and Burma," presented by Joanne Morales, director of Refugee Programs for Catholic Charities, noon, lunch is included, at 6:15 p.m., at the Walter Cronkite School of Journalism and Mass Communication, 555 N. Central Ave., room 125, Phoenix.

For more information, contact Miranda Lattouf at (480) 496-0683 or visit the website at http://asu.edu/humanities.html.

Events are free, unless otherwise noted. Items in the “Exhibitions” section run at exhibit opening and on the first of each month. Building abbreviations are listed according to the official ASU phone directory. Send information to Judith Smith at jim@asu.edu or fax (480) 965-2139. For information about ASU events, visit the Web at http://events.asu.edu.

Lectures

Monday, Sept. 14

“Building a Better World,” 7-8 p.m., Student Union Cooley Ballrooms, 830 E. University Dr., Tempe. Part of ASU’s School of Letters and Sciences Humanities Lecture Series at the Downtown Phoenix Center.

Thursday, Sept. 17

“Fighting Endophytes From the Tropics to the Tundra: Clues to the Evolution of Mycoabolism-photosynthesis,” 1-2 p.m., the Walter Cronkite School of Journalism and Mass Communication, 555 N. Central Ave., Phoenix. Speaker: Betsy Arnold, University of Arizona. Sponsored by the School of Life Sciences. Information: barb.hoffmann@asu.edu.

Conference and Workshops

Friday, Sept. 18


Thursday, Sept. 24


Monday, Sept. 14

Services Blueprinting Workshop, 8:30 a.m.-3:30 p.m., W P. Carey School of Business, Tempe, Tempe. Learn a proven and practical technique to improve services and innovation. Cost: $1,475 for two team members. Sponsored by W P. Carey School of Business Information: tattooservice@asu.edu or (480) 965-6213.

Tuesday, Sept. 15

“Go Green, Live Green: Sustainability at Home,” 7-8 p.m., Fiesta Resort, 2100 N. Priest Dr., Tempe. Part of the School of Geographical Sciences and Urban Planning, ASU. Information: joellen.russell@asu.edu or (480) 965-2787.

Tuesday, Sept. 25

“Alien and Human,” 7-8 p.m., Life Sciences Center (LSC) room 252. Speaker: Ampere Tseng, ASU. Sponsored by the Center for Biological Physics. Information: (480) 965-4073.


Miscellaneous

Sunday, Sept. 13

Grandparents Day, noon-5 p.m., Deer Valley Rock Art Center, 3711 W. Deer Valley Road, Phoenix. For reservations or information, call (602) 383-8888. Information: (602) 582-8007 or www.dvart.org.

Monday, Sept. 14

Resume Writing/Identifying and Building Your Professional Skills, 4-5 p.m., Student Services Building (SSV) room 329. Sponsored by ASU Career Services. Information: (480) 965-2350.

Saturday, Sept. 19

“My Eye on You,” 7 a.m., W P. Carey School of Business, Tempe, Tempe. Featuring lively and compelling discussions. Information: (480) 965-4073.

Friday, Sept. 18

“Why Humans Cooperate,” 6:30 p.m., W P. Carey School of Business, Tempe, Tempe. Featuring lively and compelling discussions. Information: (480) 965-4073.
 Resume Writing: Selling Your Professional Skills. 4:30-5:30 p.m., Student Services Building (SSB) room 329. Sponsored by ASU Career Services. Information: (480) 965-2350.

Tuesday, Sept. 22

Tuesday, Sept. 29

Resume Writing: Selling Your Professional Skills. 4:30-5:30 p.m., Student Services Building (SSB) room 329. Sponsored by ASU Career Services. Information: (480) 965-2350.

Thursday, Sept. 17
Faculty Emeritus Association Luncheon, 11:30 a.m.-1:30 p.m., Memorial Union (MU) Ventana Room 241A. Judy Butz- zline speaks on “Phoenix Film,” on the 100th Anniversary of the Day of Peace” (Sept. 21). Information: julie@asu.edu.

STAR in the Employment Interviews, 11:30 a.m.-2:30 p.m., Student Services Building (SSB) room 329. Sponsored by ASU Career Services. Information: (480) 965-2350.

Reading and book-signing by author Stephen Dobyns, 7-9 p.m., Memorial Union (MU) Pima Auditorium. Information: (480) 965-6565 or www.asu.edu/uppe.

Friday, Sept. 18

Resume Writing: Selling Your Professional Skills. 11:30 a.m.-12:30 p.m., Student Services Building (SSB) room 329. Sponsored by ASU Career Services. Information: (480) 965-2350.

Succeeding at Career Fiesta, 1-2 p.m., Student Services Building (SSB) room 329. Sponsored by ASU Career Services. Information: (480) 965-2350.


Saturday, Sept. 19

Friday, Sept. 25
Phoenix premier of John Adams’ memorial “On the Fire Gillespie’s Invention of the Telescope. View 1:30-4:30 p.m., Katzin Concert Hall, 1100 E. Mill Ave. Information: (480) 965-3434; asuGammage, fea-

11:30 a.m., student services Building (ssV) room 329. sponsored

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Events and Performances

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

*indicates tickets are available at ASU Gammage, (480) 965-3343; asu Kerr Cultural Center, 510 N. Scottsdale Road, Scottsdale, (480) 965-2350.

**indicates tickets are available at ASU Gammage, (480) 965-3434; ASU Kerr Cultural Center, 510 N. Scottsdale Road, Scottsdale, (480) 965-2360.

Friday, Sept. 11
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Elyse Munoz, a junior majoring in biology in the College of Liberal Arts and Sciences, had the rare opportunity to participate in cutting-edge research on ancient insects, offered through a School of Life Sciences’ Undergraduate Research Experience summer program that connects students with funded research projects. 

Munoz connected with Harrison through the summer Undergraduate Research Experience program (REU) offered by the School of Life Sciences. Munoz was a recipient of a number of undergraduate research programs in the school of life sciences that Harrison administers. Munoz, a native of San Antonio, Texas, came to Arizona State University with an award from the Hispanic Scholarship Fund.

"This research program has given me a truly invaluable experience and an amazing opportunity to get a glimpse into avenues of science that I didn’t even know existed," says Munoz.

A Barrett Honors College student, driven by a penchant for genetics and a desire to become a surgeon, Munoz discovered the life sciences research program while taking Harrison’s under-graduate course in anatomy and physiology. Attending graduate students mentioned there was a new position opening in the Harrison lab to conduct research with insects. Munoz immediately took this opportunity to learn what the research entailed, she had enjoyed Harrison’s course. She applied and was accepted.

The summer undergraduate research pro-
gram links mentors with existing and ex-is-
tant grants from the National Science Foun-
dation (NSF). Students receive fellowships and are paid while they learn first hand what research is all about.

The NSF grant on which Munoz works was developed by John VandenBrooks, a postdoctoral fellow in the Harrison laboratory. Jennifer Hale, another life sciences undergraduate, is also work-
ing on the project. The goal of VandenBrooks’ research is to understand how oxygen affects the body size of insects related to those that existed in the Paleozoic era. A second goal is to deter-
mine whether the dimensions of insect tracheae (breathing tubes) can be used to estimate oxygen levels of the prehistoric Earth.

Why the link between oxygen and size? Models developed by scientists have suggested that levels of oxygen in Earth’s atmosphere have undergone some major shifts over time. For example, oxygen has been believed to have reached 35 percent during the Paleozoic era (today it is 21 percent), followed by a massive decline to as low as 13 percent in the Mesozoic era.

The gigantic insects occurred at the same time as the oxygen peak, suggesting that changes in atmospheric oxygen mediated and then eliminated these giants. This may have put our oxygen in perilous condi-
tions for future life. How can one measure the oxygen in prehis-
toric rocks? The idea that Munoz, Hale, VandenBrooks and Harrison pursue is that the dimensions of insect tracheae can provide a key. They are measuring the effect of different oxygen levels on the dimensions of the bodies and tra-
cheal tubes of modern insects. The reason the oxygen levels on the dimensions of the cockroaches is interesting is that the species have lived for such a long time and survived during two distinct periods of high and low oxygen and persist still today. To study them, Munoz and Hale spent this summer rearing cockroaches in tanks that contained different oxygen levels. They mea-
sured the insects’ growth, and then took them to the Argonne National Laboratory in Chicago, which operates an X-ray synchrotron. There, Munoz, Hale and VandenBrooks peered inside the cockroaches’ tracheal systems and collected images that enable them to document the effect of oxygen levels on the dimensions of the cockroaches’ tracheae.

The researchers also imaged many insect fossils that have been preserved in amber, an optically clear, petrified pitch from ancient trees. They hope to validate a method for estimating the oxygen content of ancient atmospheres from the ratio of tracheal tubes sizes to body size. If successful, this will be a major advance for biol-
ogy and geology.

"Working with the graduate and postdoc-
toral students has been amazing," Munoz says. "They are always so willing to teach and most im-
portantly are willing and helping to want you to advance and succeed."

A 20th anniversary exhibit of the telescope where such gigantic insects once dominated Earth is believed to have reached 31 percent during the Mesozoic era. The gigantic insects occurred at the time of the oxygen peak, suggesting that changes in atmospheric oxygen enabled and then eliminated these giants.

BRIEF

10th annual Dia de los Muertos exhibit

For the past 10 years, the Arizona State University Museum of Anthropology has played host to a vibrant celebration honoring one of Mexico’s most sacred national holidays — the Day of the Dead (Día del Festival) Exhibit. This year, the Temple campus gallery will be filled with traditional altars, cajita (small traveling alar)
s, and Mexico celebrating this unique holiday and its 10th anniver-
sary at the museum.

The exhibit will run from Oct. 12 to Jan. 8, with an opening celebration to take place 6 to 9 p.m. on Oct. 29. The opening will feature a special presentation, “Searching for Origins: Day of the Dead in Colonial Mexico,” by Carmen King. Admission is free.

The Museum of Anthropology is in the School of Human Evolution and Social Change, located at the corner of Tyler and Cadil Casas on the ASU Tempe campus. Visitor park-
ing is available in the nearby Fulton Center garage on Col-
lege Avenue, or in metered spaces around campus.

The Doorways Annual Dia de los Muertos Cultural Exhibit is a joint collaboration among the College of Liberal Arts and Sciences, ASU Museum of Anthropology, CALACA Cul-
civism, and the School of Business.

For more details, call the museum at (480) 965-6224 or visit the Web site http://asu.museum.

Live events celebrate 400 years of the telescope

Celebration sites including Jupiter and its moons will come into clear focus through telescopes set up for public viewing from 7 p.m. to 9 p.m., Sept. 15, at Arizona State University’s West campus.

10th annual Dia de los Muertos exhibit

For the past 10 years, the Arizona State University Museum of Anthropology has played host to a vibrant celebration honoring one of Mexico’s most sacred national holidays — the Day of the Dead (Día del Festival) Exhibit. This year, the Temple campus gallery will be filled with traditional altars, cajita (small traveling alar)
s, and Mexico celebrating this unique holiday and its 10th anniver-
sary at the museum.

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Pioneering work earns professor Regents' designation

(Continued from page 1)

It seemed that, in taking a look at how laws had developed in the past, a lot of them no longer made sense. In the field of law, as in the field of social science, one ought to be able to provide a more precise basis for framing legislation or law simply because it's morally and rationally deficient," says Saks.

In addition to his scholarship on the jury, Saks has been known for his early research on and skepticism of the claims traditionally made about the reliability and use of handwriting analysis, fingerprints, bite marks and other forms of forensic identification in courtrooms. His message, at first, was not well received.

"I was a voice in the wilderness," Saks says, "because the courts, for years, were not willing to provide any reasoned basis on which to judge such evidence."
The Graduate College awards fellowships to outstanding students

The Graduate College (GC) has awarded eight Reach for the Stars fellowships to new master’s students who demonstrate academic excellence and are underrepresented in their field of study. Fellowship support is provided by the Graduate College during the first year of study in the master’s degree program. In the second year, the academic unit provides a TA or RA position or a financial equivalent award. A faculty member serves as mentor and the Fellow can participate in university initiatives that support research, professional development and interdisciplinary studies.

The new awardees participate in varied research with goals for their future. After achieving her Master’s of Sustainability, Lourdes Sierra plans to become a business consultant to help corporations develop strategies for increasing their engagement in sustainability. Jose Zarate, pursuing a Master’s of Fine Arts (MFA) in dramatic writing, wants to write and produce a play that deals with Mexico-U.S. border issues and associated violence. A volunteer for Women Beyond Borders, he hopes to eventually become a television writer. Isaac Navajo is researching American Indian water rights as part of his Master’s in Social Justice and Human Rights at ASU’s New College. His goal is to support rights of indigenous peoples.

“This was a very competitive selection process, and these represent the best of our new graduate students,” says Andrew Webb, the college’s associate vice provost. “They should be very proud of their accomplishments.”

The new Reach for the Stars fellows are: Alonzo Corral, social justice and human rights, New College of Interdisciplinary Arts & Sciences; Nicolas de la Fuente, social justice and human rights, New College of Interdisciplinary Arts & Sciences; Lourdes Sierra, School of Sustainability, Global Institute of Sustainability; Timothy Stallker, political science, College of Liberal Arts & Sciences; Amasa Louis, social justice and human rights, New College of Interdisciplinary Arts & Sciences; Isaac Navajo, social justice and human rights, New College of Interdisciplinary Arts & Sciences; Tagos Kordas, School of Sustainability; Global Institute of Sustainability; Jose Zarate, dramatic writing, Huhburger Institute for Design and the Arts.

Graduate College awards fellowships to outstanding students

The new Reach for the Stars fellows are: Alonzo Corral, social justice and human rights, New College of Interdisciplinary Arts & Sciences; Nicolas de la Fuente, social justice and human rights, New College of Interdisciplinary Arts & Sciences; Lourdes Sierra, School of Sustainability, Global Institute of Sustainability; Timothy Stallker, political science, College of Liberal Arts & Sciences; and Jose Zarate, dramatic writing, Huhburger Institute for Design and the Arts.

### Space scientists gather to explore Mars

**By Robert Burnham**

What should be the nation’s goals and priorities for exploring Mars in the 2013-2022 timeframe?

To help answer this question, space scientists from the United States and around the world will gather Sept. 9-11, at the University Club on ASU’s Tempe campus. Most of the discussions will be open to the public, in person and by webcast at [http://nasa-nai.acrobat.com/psdecadal/](http://nasa-nai.acrobat.com/psdecadal/). Audio is available at (866) 606-4717 – use access code 7078222.

The meeting is sponsored by the National Academy of Sciences as part of its efforts to prepare a “Planetary Decadal Survey.” The survey is not limited to just Mars, but will cover all aspects of solar system exploration. It will broadly canvas planetary scientists to determine current knowledge and then identify the most important scientific questions they will face in the years 2013-2022.

The Mars Panel for the Decadal Survey is chaired by ASU’s Philip Christensen, a Regents’ Professor of geologic science in the School of Earth and Space Exploration. Christensen is director of the Mars Space Flight Facility and also the principal investigator for several scientific instruments currently operating on NASA spacecraft at Mars. ASU presenters at the meeting will include Meenakshi Wadhwa, the director of the Center for Meteorite Studies, who will speak on the importance of acquiring Martian rock samples, and Jack Farmer, an astrobiology researcher who has prepared a white paper on the astrobiological aspects of Mars exploration.

The Decadal Survey’s final report, due March 2011, will be used by Congress and the Obama administration to determine which solar system exploration projects and missions should get highest priority in the 2010s. The meeting agenda and background white papers are available online at [http://nmpg.jpl.nasa.gov/decadal/index.html](http://nmpg.jpl.nasa.gov/decadal/index.html).

Burnham, with the School of Earth and Space Exploration, can be reached at (480) 458-8207 or robert.burnham@asu.edu.