December 4, 2009

INSIDE INSIGHT

Eureka! Potential pathway to green production

ASU Art Museum
Gordon Kove to lead as new director

Green spirit
ASU shines at 2009 Greenbuild Expo

H1N1 vaccine
Arizona State University has received part of its vaccine order for the H1N1 virus (also known as swine flu). ASU students, faculty and staff members who are members of high-priority groups, as defined by the Centers for Disease Control and Prevention, may receive a vaccine at any of the four campus health centers (Down-town Phoenix, Polytechnic, Tempe and West) during regular business hours.

H1N1 is the highest priority group for flu vaccinations. People who have high-risk conditions such as asthma, kidney or liver disease, diabetes or metabolic disease, anemia or blood disorder, or other immune-compromising conditions.

Students, faculty and staff must show their ASU SunCard to receive a vaccine. There is a $10 fee for the vaccine for students: ABOO Aetna Student Health Insurance will cover the cost of the vaccination for those students. Benefit-eligible employees’ administration fee will be covered in the same manner as the seasonal flu vaccinations. People who have already had H1N1 flu that has been confirmed through testing do not need to get the vaccine.

ASU health officials will update messages when vaccine is available for the general university population. For more information, visit the Web site www.asu.edu/pandemic.

$1.9M education grant takes aim at closing gender gap

By Lori K. Baker

While experts predict the majority of workers in the United States will be women by the end of this year, they still lag far behind men in earning doctoral degrees in science, technology, engineering and mathematics (STEM) fields. To help close this gender gap, the National Science Foundation (NSF) recently awarded a $1.9 million grant to a team of ASU researchers, led by Bianca L. Bernstein, a professor in the Mary Lou Fulton Institute and Graduate School of Education.

“From a national point of view, we want to improve the quality of scientific discovery,” Bernstein said. “There’s no question the discoveries and innovations are important, but so are the human beings in the system, where the road to becoming a scientist or engineer can be a tough one for women.

The rate at which women are earning doctoral degrees in STEM disciplines is 7 percent to 10 percent lower than their male counterparts, according to the Council of Graduate Schools (CGS).

The council identifies gender as the strongest predictor of doctoral degree completion in STEM fields.

Scientists receive state’s highest honor for ‘green’ innovation

By Chris Lambrechts

Two Arizona State University scientists who started their work with algae more than 25 years ago were recognized with the Innovation of the Year award at the 2009 Governor’s Celebration of Innovation at ASU’s Polytechnic campus.

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New research lab will focus on data privacy worldwide

By Debbie Freeman

A new research group at the W. P. Carey School of Business at Arizona State University is dedicated to making sure businesses know how to protect your data and implement the needed measures.

"Organizations must be committed to maintaining employee and customer privacy," said Julie Smith David, an associate professor of information systems in the W. P. Carey School of Business and one of the group’s founders. "This is really becoming an issue in the board room, as well as at people’s personal computers. We all want to make sure our data isn’t inappropriately shared or sold."

The new Privacy by Design Research Lab (PbD RL) will establish a virtual environment to work with industry leaders to create guidelines for businesses worldwide to effectively protect personal data. The researchers also will encourage organizations to use the new guidelines by offering workshops and online materials and programs to train privacy consultants. In addition, the researchers will continue to monitor and improve the guidelines for data protection.

"Privacy assurance must ideally become an organization’s default mode of operation," said Martha Purcell, an associate professor in the W. P. Carey School and a co-founder of the group. "This is the first Privacy by Design ambassador program in the United States, and we want to work with both the public and private sectors to make a difference."

The Privacy by Design Research Lab will produce documents to help teach the business community about data privacy practices, including a risk assessment which companies can use to evaluate their risks. It also will compile monthly events with industry leaders, publish world-class academic journals articles and hold a student contest to encourage new ideas on privacy practices.

"The mission at ASU fits perfectly with our intention to fund and promote an effective architecture for privacy," said Rich Sui, the executive director of The Decision Theater.

The research lab will be run out of the Center for Advanced Analytic and Systems-Modeling (CAAS) in the Department of Computing, Informatics and Decision Systems Engineering at Arizona State University. The lab will be part of the Global Decision Network, a research center in the United States that will connect with similar centers in Europe, Asia and Africa to research how decision-making systems can be improved around the world.

The researchers also will encourage organizations to use the new guidelines and design a new risk-based architecture for privacy assurance. The architecture will enable companies of all sizes to implement a privacy-by-design framework.

The project is a part of a larger grant from the U.S. Department of Defense to help develop better battlefield communications networks. The grant will pay for expert workshops to provide the best ways to design and develop secure communications networks to work with industry leaders to create guidelines for businesses worldwide to effectively protect personal data. The researchers also will encourage organizations to use the new guidelines by offering workshops and online materials and programs to train privacy consultants. In addition, the researchers will continue to monitor and improve the guidelines for data protection.

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SkySong showcases features universities, global companies

By Jim Brewer

Several of the world’s premier research universities and hospitals – as well as many top venture capitalists and promising global startup companies – will visit SkySong, the ASU Scottsdale Innovation Center, for a one-day showcase of collaboration and exchange Dec. 9.

Conducted by SkySong and Arizona Technology Enterprises (AzTE), the University and Global Technology Showcase kicks off the 2009 Invest Southwest Capital Conference and features universities and global companies presenting their best investment opportunities to an audience of investors and industry experts. In addition, several of the nation’s top venture capitalists from firms such as Kleiner Perkins Caufield & Byers, Khosla Ventures, Bay City Capital, Crosstree Funds and Polaris Ventures will participate in intriguing town hall discussions covering a variety of topics.

“We are very pleased to be able to represent a connection of the best in university research and global opportunities,” said Augustine Chenge, the managing director of AzTE, ASU’s technology commercialization arm. “Both our corporate partners and university stakeholders have been impressed with the SkySong community, their willingness not only to attend, but to participate in our panel discussions, has also been tremendous. University participants include Columbus, Boston, Carnegie, Penn, Harvard, MIT, the MD Anderson Cancer Center at Texas, UCLA, USC, Minnesota, Utah, Arizona, Thomas Jefferson and Arizona State, as well as Ireland’s Dublin City University. Top research hospitals participating in the event include City of Hope and Mayo Clinic. Several global companies from Mexico, Ireland and the United Kingdom also will present their investment opportunities in a fast-paced format of what is known in the venture capital community as a ‘speed dating’ event.

ASU SkySong works hard each day to bring business opportunities to Arizona and to connect start-up companies with university resources,” said Julia Rosen, ASU’s associate vice president for innovation and entrepreneurship. “This Showcase is a tremendous extension of those efforts and we’re very excited to bring these opportunities and investors together.”

Attendees must pre-register to attend the showcase and registration lists are limited to investors and industry representatives. More information and registration is available at www.investsouthwest.org.

Arizona Technology Enterprises (AzTE) is a nonprofit organization that operates as the exclusive intellectual property management and technology transfer organization for ASU and its research enterprise. Comprised of industry and university veterans, AzTE brings together ASU’s researchers and industry partners to transform discoveries into marketable products and services, taking innovation out of the lab and into the commercial marketplace.

SkySong, the ASU Scottsdale Innovation Center, serves as a portal for companies to the resources and services of ASU, offering entrepreneurial training, research development, research integration and business development assistance. ASU SkySong serves as a new technology start-up hub, access to business services and continuing training geared toward local innovators and global firms seeking to start operations in the United States.

Invest Southwest is the premier capital conference for venture capital and angel investors in Arizona and the Southwest. Since 1992, this event has featured the region’s most promising companies that have collectively raised more than a quarter billion in investment dollars from venture capital firms, angel investors and other private investors. The Invest Southwest Capital Conference will be held Dec. 9-11 at the Four Seasons Resort in Scottsdale.

Brewe, with the ASU Foundation, can be reached at (480) 884-1564 or jimb@asu.edu.
Events are free, unless otherwise noted. Items in the "Exhibitions" section run at exhibiton and on the first of each month only. Building ab-

riviations are listed according to the official ASU phone directory. Send information to Judith Smith

of the Exhbiton. Information: (480) 965-2159. For infor-

about ASU events, visit the Web at http://
events.asu.edu.

Lectures

Friday, Dec. 4

**Novel Applications of Surface Plasmon Resonance Imaging**. noon, Bioscience Institute room AL-11014. Speaker: Xiaofeng Wang, associate research professor, Bioscience Institute, Center for Bioelectronics and Biosensors. Information: http://bioscience.asu.edu/food.am/.

**Imaging Technology Research Forum: Development and Use**, 1-4 p.m., Memorial Union (MU) Alumni Lounge (202). Hosted by Kevin Bennett, Lu Hu. School of Engineering, School of Biological and Health System Engineering. The forum will highlight the cutting-edge imaging technology and instrumentation available in the Phoenix metro area, explore collaborative and innovative research opportu-
nities, and discuss new and future research applications for ASU imaging research. Refreshments will be served. R.S.V.P.: PIDE.RSV@asu.edu.


Chemistry and Biochemistry Lecture, 3:30 p.m., Bute-

man Physical Science Center (PH)-150. Speaker: Elias Yan, assistant professor, Department of Chemistry, Yale University. Sponsored by Department of Chemistry and Biochemistry. Information: http://chemistry.asu.edu/sternmain/lecture.asp.

Monday, Dec. 7


**What Have We Learned From Cancer?** 7:30 p.m., Pima Community College, 7000 E. Mill Avenue and Apache Boulevard, (480) 596-2660. Speaker: Dr. Madhulika Iyer, former director, Ludwig Institute for Cancer Research. Sponsored by ASU Art Museum, Nelson Fine Arts Center.


Tuesday, Dec. 8

**Coming Soon…**

**ASU mound Field for the Pensacola College Football Team**, 7:30 p.m., ASU Football Stadium, 700 S. 18th Ave., Tempe. For more information, call (602) 574-9523.

**What’s Happening for the Holidays**

**Exhibitions**

**ASU Art Museum, Nelson Fine Arts Center**

Regular hours: 11 a.m.-5 p.m., Monday through Friday. Closed: holidays. Occasional special hours.


**Annual Holiday Concert by the ASU Symphony Or-
chestra and Choral Union**, 2:30 p.m., ASU Art Museum. **ASU African Drum Ensemble**, 7:30 p.m., Evelyn Smith Music Theatre.

**Monday, Dec. 7**

**ASU Choirs**, 7:30 p.m., Cameback Bible Church, 3900 E. Stanford Drive, Paradise Valley. Tickets: $2 at the door.

**Tuesday, Dec. 8**

**Tuesday Morning Music & Tea**, 10:30 a.m., ASU Kell Cultural Center, 700 S. 18th Ave., Tempe. sponsored by: Department of Biology and Biotechnology. Information: (480) 965-5168.

**10th Annual Native American Children's Christmas Benefit Concert**, 7:30 p.m., Merit Union (MU) Venu-
tana Room (241). Information: sandy.kemp@asu.edu.

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

**Sunday, Dec. 6**

**Arizona Youth Symphony**

**Saturday, Dec. 5**

**Benefit Concert**, 7:30 p.m., Evelyn Smith Music Theatre. Information: (480) 965-6224.

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Brian Williams receives 2009 Cronkite Award

By Julie Newborg

An Arizona State University program that has helped nearly 8,700 parents across the Valley improve the educational development of their children earned one of the nation’s most prestigious community engagement awards.

The American Dream Academy received the 2009 C. Peter Magrath University Community Engagement Award from APLU (Association of Public and Land-grant Universities), the oldest higher education association in America for its profound impact on Phoenix’s K-12 educational community. Parents of K-12 students enter the nine-week program to gain knowledge and skills necessary to improve the educational development of their children, including methods to improve parent-child relationships, reduce dropout rates and ensure high school graduation.

Since October 2006, the program has helped parents of students attending 41 different schools to “graduate” from the program to indirectly help more than 24,000 low-income, minority youth in the greater Phoenix region better navigate their education.

“The American Dream project is a model for engagement and outreach for public institutions,” says Lee Ford, the chairman of the APLU board of directors and president of the University of Kentucky.

“ Its impact on the Phoenix area will be felt for years to come. Public universities, such as Arizona State University and the other four regional winners, exemplify the spirit and vision of university engagement and commitment with the radical possibilities of ASU today,” Knox said. “Knox believes that ASU’s commitment to build the communities of tomorrow, Knox said. “A museum’s job is to provide public access to the full range of human- ity’s thinking; combining that commitment with the radical possibilities of ASU today offers the greatest imaginable opportunity. I am both honored and fully activated by being invited to join the ASU team.”

Previous to the SHL, Knox was the artistic director of the Montalvo Arts Center in Saratoga, Calif., developing ambitious projects such as Edge of Desire, the only West Coast exhibition of a comprehensive collection of recent art from India, and EUSE, a new media collaboration with the CADRE laboratory at San Jose State University. Knox also was the founding director of the American Dream Academy project, which is underwritten by ASU, the Helios Education Foundation, SRP, participating schools and districts, and other funding partners, creates a community where parents and teachers collaborate to transform each child’s educational environment at home and at school. The American Dream Academy is the signature program of the Center for Community Development and Civil Rights, which oversees the program. “The program is a mutually beneficial partnership that aids in the transformation of the community and changes the way people think about the university.”

The American Dream project, which is underwritten by ASU, the Helios Education Foundation, SRP, participating schools and districts, and other funding partners, creates a community where parents and teachers collaborate to transform each child’s educational environment at home and at school. The American Dream Academy is the signature program of the Center for Community Development and Civil Rights, which oversees the program. “The program is a mutually beneficial partnership that aids in the transformation of the community and changes the way people think about the university.”

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Baby’s sleep position is major factor in ‘flat-headedness’

By Carol Hughes

A baby’s sleep position is the best predictor of a misshapen skull condition known as deformational plagiocephaly—or the development of flat spots on an infant’s head—according to findings reported by Arizona State University scientists in the December issue of the journal Pediatrics.

Analyzing the largest database to date—more than 20,000 children from studies performed between 1989 and 2007—the team found that the number of babies who have developed flat-headedness has dramatically increased since 1992. The increase coincides with the American Academy of Pediatrics launch of a “Back to Sleep” educational campaign that recommended parents place their infants on their backs to reduce the risk of Sudden Infant Death Syndrome.

“We looked at a number of risk factors, but the largest factor was the sleep position of the baby,” says Brian Verrelli, an assistant professor in ASU’s School of Life Sciences and a researcher in the Center for Evolutionary Functional Genomics at the Biosphere Institute.

The condition is thought to occur when babies spend too much time in one position. The research team found that sleep position and, specifically, head position, are linked to flat-headedness. Babies who slept on their right side or left side tended to have right-side- and left-side-flat spots, respectively.

“The study, ‘Risk Factors Associated With Deformational Plagiocephaly,’ also found that boys were twice as likely as girls to have the condition (a nearly perfect 2-to-1 ratio) and also more common in full-term infants, babies with low birth weight, in breech and transverse positions in the womb, and in multiple births, specifically fraternal twins,” Verrelli says.

The study was designed to statistically evaluate the independent and interacting effects of biological and environmental risk factors that lead to deformational plagiocephaly, in an attempt to provide future guidance for clinical treatment.

“The unprecedented size of the sample in our study allowed us to identify potential factors, such as maternal prenatal conditions and low birth weight, that were previously unrecognized in smaller cohort studies,” says Jessica Joganic, who was an ASU undergraduates at the time. “These other factors need to be explored further before we can begin to piece together the entire puzzle.”

However, independent of the biological and environmental factors, the findings showed that sleep position was the best predictor of deformational plagiocephaly, and one that could be addressed by altering behavior, according to Verrelli. The research was part of Joganic’s undergraduate thesis as a member of the Barrett Honors College, Joganic earned a bachelor’s degree in anthropology in 2008 from the School of Human Evolution and Social Change in ASU’s College of Liberal Arts and Sciences.

For more information, visit the Web site http://icrp.asu.edu/6

ASU students seek meaningful change in Africa

“The wind of change is blowing through this continent. Whether we like it or not, this growth of national consciousness is a political fact.”—Britain Prime Minister Harold Macmillan, Feb. 3, 1960, in a speech to the Parliament of South Africa.

As teaching faculty plan their fall courses, ASU Librarians buy back textbooks: ASU Bookstores buy back textbooks. The submission deadline is Jan. 14.

Emeritus College has moved

The Emeritus College has moved to the lower level in Old Main, room 102. The phone number remains the same, (480) 965-0005. The mail code is 3002. Office hours are from 8 a.m. to 4 p.m. Monday through Friday.

Openings in child research programs

The Infant Child Research Programs has openings for preschoolers in the preschool program and toddlers in the toddler program beginning in the Spring semester. The programs focus on early communication and language skills including emergent literacy. Openings are available for toddlers with developmental delays. Individual speech therapy for children with autism also is offered. Please visit the Web site http://ecp.asu.edu or call (480) 965-9396 for additional information.

ASU Libraries highlight Course Reserve

As teaching faculty plan their fall courses, ASU Libraries would like to highlight helpful Course Reserve service. Course Reserves is a service that provides shared access to required course reading for students enrolled in specific courses. Teaching faculty may submit requests that include books and journal articles from the libraries’ collection as well as personal copies of textbooks and other readings, if available. To ensure that Course Reserve materials are available for the beginning of the semester, teaching faculty are encouraged to submit requests as early as possible. Requests are processed on a first-come, first-served basis, and some items may take several days to process if checked-out materials need to be recalled or new materials ordered. Course Reserve staff at each library location will be able to provide more specific information on the copyright process. For more information about the Course Reserve service and for contact information for your specific library location please consult the ASU Libraries Web site at http://lib.asu.edu/.

President’s Award recognizes faculty, staff

Application forms for the revived President’s Award for Innovation, the President’s Medal for Social Embeddedness, and the new President’s Award for Sustainability are available online at http://asu.edu/award. These awards recognize ASU faculty and students for extraordinary contributions in the areas of innovation, collaboration, social embeddedness and sustainability. Teams that are working on projects or programs that meet the criteria for these awards are encouraged to apply. The submission deadline is Jan. 14.

A writer’s briefing will take place Dec. 9 for those interested in learning more about submitting an application. The criteria for the awards will be discussed, and tips on effectively organizing and writing applications will be provided.

The sessions will be held from 10 a.m. to 11:30 a.m., on the Tempe campus. For more information or to register, please contact Linda Uley at linda.uley@asu.edu or (480) 965-5089 before noon on Dec. 7.

ASU Bookstores buy back textbooks

As a service to the university community, the ASU Bookstores will be buying back textbooks, Dec. 7 through Dec. 18 at the ASU campus. To see specific dates and times, visit the ASU News site: http://asunews.asu.edu/20091202_bookbuyback.

BRIEF

Spirit of Service Scholars competition

ASU’s College of Public Programs is partnering with Zappos.com for a video contest to support the Spirit of Service Scholars’ initiative. The Spirit of Service Scholars program aims to add to the college’s existing commitment to the public and nonprofit sectors by awarding prestigious scholarships to outstanding students and providing them with an extramural component of the liberal arts and sciences degree that supports their interdisciplinary work, and committed, effective mentors.

Participants can win a share of $5,800 in awards. The competition is open to anyone and the deadline is 11:59 p.m., Jan. 22. For more information, visit the Web site http://spiritofservice.scholars.asu.edu/index.

ASU honor society promotes civic leadership in Africa

The Honor Society of Social Transformation, have returned with a greater focus on the roles they might play in effecting meaningful change across Africa and an enthusiasm to match. ASU’s Lafayette Newcombe, a senior, Tashiba Sarabo, a junior, and Briana Tyson, a sophomore in the College of Liberal Arts and Sciences, African Americans on the continent and in the Diaspora, to past and current issues faced by both Africans on the continent and in the Diaspora, and race, and gender in ASU College of Social Sciences.

Sarabo, a Fulbright Scholar doing work at the University of Ghana, has led students to the Brown Series the past two years.

“Walter a wonderful opportunity for a select group of students to see on-the-ground action and get a feel for the process and dilemmas that allows them to not only utilize their knowledge and skills, but also realize that something can be local, national and global in their own right.”

Upon their return from the nation’s capital, Newcombe, Sarabo and Tyson presented on their experience to faculty, students and community members at the Tempe campus. Newsome says, “This was again a wonderful opportunity for the students to see on-the-ground action and get a feel for the process and dilemmas that allows them to not only utilize their knowledge and skills, but also realize that something can be local, national and global in their own right.”

ASU Bookstores buy back textbooks

Professor honored for achievement

Dean Kashiwagi, an ASU professor, has won the International Faculty Management (IFMA) Association 2009 Distinguished Educator Award, recognizing numerous accomplishments in both his academic career and the IFMA. Kashiwagi is a professor in the Del E. Webb School of Construction, a part of the School of Sustainability. His work focused on finding innovative, efficient and performance, and minimizing risk, in project management research and practices at Botsuana. Africa in the past year.

For details on the Botswana project, visit the Web site http://engineering.asu.edu/news/2869.

The study was designed to statistically evaluate the independent and interacting effects of biological and environmental risk factors that lead to deformational plagiocephaly, in an attempt to provide future guidance for clinical treatment.

“The unprecedented size of the sample in our study allowed us to identify potential factors, such as maternal prenatal conditions and low birth weight, that were previously unrecognized in smaller cohort studies,” says Jessica Joganic, who was an ASU undergraduates at the time. “These other factors need to be explored further before we can begin to piece together the entire puzzle.”

However, independent of the biological and environmental factors, the findings showed that sleep position was the best predictor of deformational plagiocephaly, and one that could be addressed by altering behavior, according to Verrelli. The research was part of Joganic’s undergraduate thesis as a member of the Barrett Honors College, Joganic earned a bachelor’s degree in anthropology in 2008 from the School of Human Evolution and Social Change in ASU’s College of Liberal Arts and Sciences. For more information, visit the Web site http://asunews.asu.edu/20091118_pediatrics.

Dean Stephen Des Georges, with Public Affairs at the West Campus, can be reached at (602) 543-5220 or stephen.desgeorges@asu.edu.

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Intel donation enhances quality of ASU’s medical disease research lab

By Joe Caspermeyer

A donation of equipment from the Intel Corporation to Arizona State University will put sophisticated technology at an entirely new level and change the way disease is diagnosed. A long-standing supporter of ASU research and programs, Intel donated equipment, which has a market value of more than $2.3 million. The majority of the equipment will be used by ASU’s Biodesign Institute on promising research that has the potential to detect diseases before they are symptomatic.

“One of the remarkable aspects of this generous donation is that it provides an entire suite of sophisticated equipment, allowing us to make a dramatic leap in capabilities,” said Neal Woodbury, the deputy director of the Biodesign Institute.

Knowledgeable and yet approachable, and originally designed for the fabrication of computer microchips. Now, Biodesign researchers will repurpose it to make “pedicle chips.” Each chip will have millions of protein fragments. The concept is a tiny sample of blood—like that used in diabetic testing—with stem cells that can interact with the chip. The goal is a comprehensive snapshot of the patient’s immune system called an immunosignature. Assuming a home-based test kit would be developed, the test could run every month to enable early diagnosis of disease at its earliest stage—even before there are symptoms, preventing the chances of a costly mechanical failure.

“ASU is a great research institution, and its engineering and science programs are becoming the cornerstone for the advancement of new technologies,” said Nasser Grayeli, vice president at the Center of Intel’s technology and manufacturing group and director of its Corporate Quality Network. “In the past few years, Intel and ASU have collaborated on a range of activities and programs, including manufacturing sciences, packaging, wireless and now, biodesign. We enjoy our interaction with ASU students and faculty members on real-world projects. We look forward to a strong, continued cooperation in areas of mutual interest.”

ASU has a long history of support for a broad range of ASU programs and initiatives, particularly in the Ira Fulton Schools of Engineering’s fields of computer science and biomedical information, to name a few. The equipment will be housed in a dedicated facility at ASU’s Polytechnic campus.

Polytechnic’s Department of Engineering Technology also serves as the lead unit for providing the necessary medical imaging equipment (CMII) for 3-D part models, measurements and the construction and manufacturing engineering technology students will use.

According to Scott Danielson, an engineering technologist at ASU, this piece of metrology equipment is something the program could never afford to purchase on its own and is invaluable to student learning. The equipment will be used primarily as a case study for metrology—its quality control is unique within ASU and its high quality is, in large part, due to Intel’s generosity.

“Caspermeyer, with the Biodesign Institute, can be reached at (480) 727-0560 or joseph.caspermeyer@asu.edu.

Grant helps researchers improve learning environment

(Continued from page 1)

More women with advanced degrees in STEM fields translate into “new ideas, new possibilities, and new development coming to fruition,” said Susanne Neuer, the president of the Central Arizona Chapter of the Association for Women in Science and an associate professor in ASU’s School of Life Sciences.

ASU’s CAREER II project seeks to understand and decrease the loss of committed women from science and engineering. The project builds on the success of the CAREER I project that was supported by $1 million in NSF funding awarded in 2006. Through CAREER II, the researchers are extending their previous work by developing and testing a residential summer camp that will provide a unique, interactive, multimodal learning environment for improving interpersonal communication and work-related skills among STEM women.

The innovative Web site offers the first em-}
A team of ASU students, faculty and staff displayed the university’s green spirit at the 2009 Greenbuild Expo that took place Nov. 11-13 at the Phoenix Convention Center.

The effort to provide an exhibit for the event resulted in a forest of “power plants,” raving reviews and the honor of being named a Greenbuild Leadership level exhibit.

The exhibit was developed by a team of five ASU faculty members – Darren Peruzzo, the director of the School of Architecture and Landscape Architecture; Jason Griffiths and Harvey Bryan, architecture professors; Phillip Horton, an architecture faculty associate; and Joseph Ewan, an architecture faculty associate and landscape architecture professor. A team of five students, led by Adam Tate, refined the design and constructed the trees.

ASU’s 10-by-20 foot booth featured 14 steel “power plants” and one table, which incorporated several of the university’s disciplines and programs, including engineering, construction, science and math, and several of the university’s disciplines and programs, including engineering, construction, science, and math, sustainability, design, and multimedia. All of the construction was done in the school’s shop.

Each tree is a mini-environmental system and was designed to represent several aspects of sustainable research at the university. The 8-foot trees were topped by a solar panel generating electricity and was designed to represent several aspects of sustainable research at the university. The 8-foot trees were topped by a solar panel generating electricity and were fed by an IV drip bag filled with liquid nutrients.

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The ASU booth at the 2009 Greenbuild Expo displayed a forest of “power plants” that was designed to represent several aspects of sustainable research at the university. The 8-foot trees were topped by a solar panel generating electricity and were fed by an IV drip bag filled with liquid nutrients.