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At the Alumni Association, we often hear people remark with surprise when they learn how many events our staff, volunteers and alumni produce each year. But there is a reason we do what we do – these in-person experiences are the vehicle that drives home the power of our Sun Devil network.

I have seen how these events positively impact Sun Devil alums as I’ve traveled around the country this year, participating in ASU-related events in Dallas, Austin, Houston, Seattle, Tucson, Los Angeles, San Francisco, and Columbia, Missouri. Alumni Association events provide behind-the-scenes glimpses of interesting venues, such as Sony Pictures Studios and the Creative Artists Agency in L.A., or the boat cruise in Seattle; offer excellent networking opportunities for ASU alumni; allow alums volunteering at the event a chance to give back to the university; and update local Sun Devils about what’s going on at ASU, enabling them to become better ambassadors for the university.

As we move through spring and into summer, there will be plenty of opportunities to see firsthand how the ASU Alumni Association creates engagement opportunities for Sun Devils and how these events make an impact. We’ll be welcoming incoming students at Sun Devil Send-Offs around the country, hosting graduation receptions for veterans and international alumni, and boosting careers through our Maroon & Gold Professionals and Women in Business networking mixers. We’ll also be celebrating summer at dozens of geographic and special interest chapter events; please check out our online calendar and make plans to attend an event near you!

In this issue of the magazine, we continue our series of stories on ASU’s involvement in health-related issues with a report on the university’s Health Solutions initiative. Health Solutions coordinates all activities at ASU aimed at improving health outcomes. Another feature story profiles research activities at the university that utilize the principle of biomimicry, which leverages the wisdom of the natural world to inform solutions to design challenges. Finally, our feature section is rounded out by a story on how ASU is working to make the world a safer and more peaceful place through dozens of research projects focused on national security and peacemaking.

Our magazine aims to showcase the best of ASU as the New American University. Events allow us to bring the best of the university home to you – don’t miss out!
QR Codes

The icon above is a QR code. QR is short for “quick response,” and it’s used to provide a direct link to media-rich content on the Web. QR code boxes can take you to supplemental text, an audio podcast or online video to enhance a story or advertisement.
To access information offered through a QR code, you’ll need a mobile phone with a QR code reader application.

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Delivering health

With the creation of the Health Solutions initiative at ASU, the university is seizing the opportunity to design a more efficient health care delivery model, through the initiative itself as well as the new College of Health Solutions. These entities will work with units across the university to help encourage a paradigm shift from treatment to prevention.

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Listening to Mother Nature

Designers have been using natural inspirations to serve as the basis for human-designed objects for some time. Now, however, an increased emphasis on innovation, use-inspired research and sustainability is creating excitement at ASU about biomimetic design principles in wide variety of fields, from consumer packaging to energy research and robotics.

ASU Social Stream:
http://socialmedia.asu.edu/

ASU Alumni Events:
http://alumni.asu.edu/events

Facebook
ASU: http://www.facebook.com/arizonastateuniversity
Alumni: http://www.facebook.com/ASUAlumni
Athletics: http://www.facebook.com/ArizonaStateSunDevils

Foursquare: http://foursquare.com/asu
iTunes: http://itunes.asu.edu/
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Christine Wilkinson discusses the power of alumni engagement.

University News
ASU brings back Victory Bell tradition; team builds hunger-fighting venture on solid ground; School of Social and Family Dynamics to be named after Denny Sanford.

16 Sports
Sun Devil athletes give back through volunteer experiences; ASU’s Tim Esmay to be assistant coach for USA Baseball’s 2013 Collegiate National Team; plus sports updates on tennis, volleyball, spring football and more.

Arts & Culture
Dance has been an integral part of life since the birth of human civilization. ASU’s dance community has redefined what the performance medium is all about, by reaching out to new and diverse community groups. Plus, new books by alumni, staff and faculty in Shelf Improvement.

Alumni News
A recap of recent alumni events, including Storytime with Sparky, ASU Day at the Capitol and more.

52 Sun Devil Network
Reports from around the Sun Devil nation.

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Alumni news, notes and milestones.

64 Sun Devil Snapshot
Building memories: The pedestrian bridge at ASU represented a pathway to the future for the class of 1963.

Safe and sound
The world, and certainly the United States, changed in many significant ways after the terrorist attacks of Sept. 11, 2001. Since that time, many ASU research projects and scholarship initiatives have focused on making the world a safer, healthier place to live. Some research has focused on defending U.S. citizens with better security measures, while other work has focused on creating a better understanding of how to make peace with other nations and groups.

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Arizona State University continued to rank high in the number of master’s and doctoral degrees awarded to underrepresented minorities, according to 2012 data from the National Center for Education Statistics published in Diverse: Issues in Higher Education magazine.

ASU’s rankings reflect the number of minority degrees awarded in various disciplines compared to other universities across the nation. The ranking is an indication of which programs and disciplines attract, retain and graduate the highest number of underrepresented students.

Overall, 16 of ASU’s programs appear in the top 10, and a total of 48 programs are in the top 25. More than 70 ASU programs rank in the top 100.
Highlights of the top 10 degree rankings include:

- No. 1 ranking for doctorates awarded to Hispanics in mathematics. For all minority groups combined, ASU ranks No. 5 in the nation for doctorates awarded in mathematics.
- No. 2 ranking for master’s degrees in social sciences awarded to Native Americans.
- No. 2 and No. 3 ranking for respective master’s degrees in architecture and doctoral degrees in psychology awarded to Hispanic students.
- No. 3 and No. 5 ranking for respective doctoral degrees in business and management and computer sciences awarded to Asian-American students.

A few of the other programs at ASU that receive high rankings include:

- Business administration and management for the number of graduate degrees awarded to Native Americans, Hispanics, Asian Americans and total minorities.
- Engineering for the number of degrees awarded to African Americans, Hispanics, Asian Americans, and total minorities.

ASU also excels in a category called “all disciplines combined,” which summarizes total degrees awarded from all graduate programs at ASU. Top rankings in this category resulted from degrees awarded to African Americans, Hispanics, Asian Americans, Native Americans, and total minorities.

More than 21 percent of the nearly 14,000 graduate students enrolled at ASU are from underrepresented or minority ethnic groups.

“We are very proud of what our programs and our students have accomplished,” says Maria T. Allison, executive vice provost for Academic Affairs at ASU and dean of the Graduate College. “ASU continues to excel in our ability to recruit highly qualified and talented students and these data affirm that they continue to graduate in very large numbers.”

Diverse magazine’s annual rankings of “The Top 100 Graduate Degree Producers” were published in their July 2012 issue, with complete results online at diverseeducation.com/top100.

ASU names school for philanthropist T. Denny Sanford

Entrepreneur T. Denny Sanford recently was honored by ASU with the naming of the T. Denny Sanford School of Social and Family Dynamics in recognition of his major, sustained support.

Sanford has helped advance the university with his philanthropic program commitment by bringing a unique partnership with Teach for America to the Mary Lou Fulton Teachers College and creating the Sanford Harmony Program, which is intended to help children as young as three years old better understand the opposite gender and to create respect, trust and understanding between boys and girls before adolescence.

Through the Sanford School, an academic unit of the College of Liberal Arts and Sciences, ASU will develop and promote collaborative efforts that involve faculty, practitioners, staff, students and community members, and that focus on core Sanford themes: relationships, families, children, education, health and well-being. The Sanford Harmony Program is a centerpiece of the school.

“It is my dream to reduce the divorce rate in the U.S. by 50 percent within the next 50 years,” Sanford said. “We expect many significant endorsements for this world-changing program that will be made available to all preschool and elementary schools nationwide.”

Sanford, a native of St. Paul, Minn., graduated from the University of Minnesota with a degree in psychology in 1958. A successful entrepreneur who serves as chairman and CEO of United National Corporation in Sioux Falls, S.D., Sanford has invested more than $25 million in the School of Social and Family Dynamics and the Mary Lou Fulton Teachers College.

University, Arizona Science Center partnership to promote STEM education

The Arizona Science Center and Arizona State University announced the formation of a new partnership to share dynamic science happenings with the Arizona community, and to motivate and inspire K-12 students to pursue post-secondary education in science, technology, engineering, and math, or STEM disciplines.

Through the partnership with the Arizona Science Center, ASU will be able to further its commitment to enhancing discovery within the Arizona community. The center aims to inspire, educate and entertain people of all ages about science. Interactive and informational exhibits at the center make science and technology relevant and give children and adults alike the opportunity to put fun and hands-on exploration at the center of learning. Together,
ASU ranks 5th in number of Fulbright student scholar award winners

Arizona State University is among the top producers of U.S. Fulbright student scholarship winners who will teach and study abroad next year. ASU is tied at fifth place in the nation among research institutions, along with Yale University and University of California at Berkeley.

ASU submitted 58 Fulbright applications and 23 applicants - or 40 percent - received the award, resulting in a success rate higher than universities such as Harvard, Brown and Yale.

The Fulbright Program is one of the most prestigious awards programs worldwide. The awards, funded by Congress, were founded to increase mutual understanding between the United States and other countries. Fulbrights are awarded based on academic and leadership potential, providing the opportunity to exchange ideas and contribute to finding solutions to shared international concerns.

The Fulbright Program is sponsored by the United States Department of State, Bureau of Educational and Cultural Affairs. Since its inception in 1946, the Fulbright Program has awarded more than 318,000 participants with the opportunity to engage abroad. In the past 66 years, more than 44,000 students from the United States have benefited from the Fulbright experience.

Cronkite Nation network launched at inaugural Cronkite Day celebration

The Walter Cronkite School of Journalism and Mass Communication launched Cronkite Nation, an interactive online network for graduates of the school, during festivities around Homecoming in October.

Cronkite Nation, which was unveiled Oct. 26 at the school’s first-ever Cronkite Day alumni celebration, is designed to connect Cronkite graduates across the years and features a searchable map that displays alumni around the globe. It enables graduates to create and update profiles that aggregate their online content and social media accounts. Users also can send private messages to other Cronkite alumni.

More than 1,100 Cronkite graduates in 48 states and 19 countries on six continents currently have profiles on the site. According to Liz Smith, Cronkite’s outreach director, the site will allow journalism alumni to reconnect with others from their class cohort and help each other advance in their careers. It also enables employers to search for graduates by name, location and skill set.

“This platform allows Cronkite alums to leverage the school’s powerful worldwide alumni network, Cronkite Nation, to their advantage, helping employers find them and allowing them to follow classmates’ careers,” Smith said.

ASU journalism alumni spanning many decades of experience attended Cronkite Day, the school’s first-ever large-scale alumni celebration, along with current and prospective students, faculty, staff and other guests. The event, which was held at the Cronkite building on ASU’s Downtown Phoenix campus, was conceived and planned by the Cronkite National Board of Advisors, a group of 10 alumni. The board advises the dean and assists in fundraising, planning Cronkite Day and selecting inductees for the Cronkite Alumni Hall of Fame.

New global rankings laud W. P. Carey School

The W. P. Carey School of Business performed well in rankings released recently by The Financial Times, The Economist and The Princeton Review.

In the new rankings from The Financial Times, the business school’s executive MBA program in China ranks as one of the Top 25 executive MBA programs in the world. The Financial Times is considered to be Britain’s equivalent of The Wall Street Journal. It specifically ranks the W. P. Carey School program in Shanghai as No. 21 globally and the No. 2 executive MBA program affiliated with any U.S. public university.

The Economist reviewed the school’s full-time MBA program in Arizona; marking the first time the school has been invited to participate in the global rankings survey. It debuted high on the Top 100, at No. 59. It is the only Arizona school on the entire list and Top 10 in the western United States. The Economist, based in London, is renowned for its intellectual appeal and boasts a readership of 2.5 million.

The Princeton Review, in its new edition of “The Best 296 Business Schools,” praises the W. P. Carey school for its peer network, cutting-edge classes, satisfied students, career services, and solid preparation in management and teamwork. The book gives the school a 96 rating for academic experience and a 93 rating for career (graduate employment/salaries), on a scale with a maximum of 99.

University aids Myanmar’s educational reconstruction

Arizona State University is participating in a strategic initiative to develop partnerships with universities in Myanmar, which was formerly known as Burma and is located in southeast Asia. As part of the Institute of International Education’s 2012 Myanmar initiative of the International Academic Partnership Program, the university will assist in rebuilding higher education in the country.

ASU and other participating U.S. educational institutions will assist with the revitalization of higher education in the country and help Myanmar counterparts upgrade their current pedagogical approaches and update their curriculum as part of a broader domestic government effort to stimulate more rapid and sustained economic growth.

“Our participation in the Institute of International Education’s Myanmar program highlights our larger efforts to deepen and expand our global engagement,” said ASU Executive Vice President and Provost Elizabeth D. Phillips. “We believe this represents an exciting chance to bring together several of our strategic goals, including expanding international research,
growing our international student body, and expanding our global footprint in a country where there is a good match between our interests and academic expertise and Myanmar’s needs for meaningful cross-border collaboration and cooperation.”

During the next six months, the initiative will take a multi-pronged approach aimed at helping to build partnerships with institutions in Myanmar, while also helping the country rebuild higher education.

“ASU’s participation in this important initiative comes at an extremely critical moment in Myanmar’s political and economic evolution and opening up to the world,” said Denis Simon, vice provost for International Strategic Initiatives at ASU.

EIGHT viewers enter the operating room in two recent programs

The Valley’s PBS affiliate, EIGHT, recently brought a hospital operating room into viewer living rooms to document two surgical processes as part of its series “The Latest Procedure.”

The pilot program, aired on Nov. 13, focused on anterior total hip replacement surgery, and the second program, aired Feb. 20, documented innovations in cardiovascular procedures. The second show was broadcast near the 30-year anniversary of EIGHT’s first “OR” broadcast in February 1983, when the station aired the world’s first live telecast of open heart surgery.

During the hour-long program on the hip procedure, viewers not only scrubbed in with orthopedic surgeon Ted Firestone, M.D., but got a bird’s-eye view of the operation through a mini-cam strapped to the surgeon’s head. Firestone offered a play-by-play account of the surgery and cameras joined him as he met the patient, demonstrated surgical tools and provided a personal tour of the OR before surgery began. Following surgery, Firestone took viewers back to the patient’s recovery room only three hours after the operation, where the audience saw the patient walk down the hall.

“Our goal of ‘The Latest Procedure’ is to inform individuals about healthy living practices, medical discoveries, diagnoses and treatments to foster better health,” said Kelly McCullough, Eight’s general manager. “The healthcare landscape is changing – shifting the burden of responsibility to patients to take a more assertive role in their own care.”

To learn more about the recent episodes of “The Latest Procedure,” visit www.azpbs.org/procedure.

ASU-Mayo seed grants support new health studies

Arizona State University and Mayo Clinic have announced the recipients of the 2013 ASU-Mayo Seed Grant Program, which provides funding for collaborative research projects between the two institutions. The winning research teams will study health issues that include obesity, brain tumors, heart disease, breast cancer, and a rare but debilitating upper respiratory condition.

The seed grant program began in 2005 and has funded 49 projects, including this year’s five recipients. Each of the research teams will receive $40,000 to initiate studies that will improve human health. The goal of the program is to move projects far enough along that they can attract more substantial funding from outside agencies in the future.

The winning proposals are judged on five criteria. They must be scientifically interesting and innovative, have valid methodology, show collaborative effort, offer the likelihood of future funding or collaboration, and be feasible to complete within the project period.

“The ASU-Mayo Seed Grant awards have deepened and broadened our already substantive links in research. This year was our most competitive to date and the awards are a testament to the advantages of bringing together ASU and Mayo faculty to tackle significant health related issues,” said Keith Stewart, dean for research at Mayo Clinic Arizona.

To learn more about collaborations between ASU and Mayo Clinic, visit mayo.asu.edu. To learn about past seed grant recipients, visit mayo.asu.edu/seed-grant-program.
Crow, Newfeld elected AAAS Fellows

Two faculty members of Arizona State University, including ASU President Michael M. Crow, are among the 702 newly elected American Association for the Advancement of Science (AAAS) Fellows. AAAS is the world’s largest general scientific society.

Joining Crow as a newly elected AAAS Fellow from ASU is Stuart Newfeld. Both were featured in the Nov. 30 issue of Science magazine, and were recognized Feb. 16 at a forum of the 2013 AAAS annual meeting in Boston.

Crow was recognized by AAAS for “provocative contributions to public discourse on the appropriate role of government in setting priorities in funding science and willingness to challenge dogma.” Crow has been a champion of outcome-driven science models. A cornerstone of that effort is the Consortium for Science, Policy and Outcomes, which he founded in 1998 while at Columbia University and which has since transferred to Arizona State University. CSPO is dedicated to linking science and technology to optimal social, economic and environmental outcomes.

Newfeld, a professor in ASU’s School of Life Sciences and faculty leader of the school’s Cellular & Molecular Biosciences group, was recognized by AAAS for his distinguished contributions to the field of molecular genetics via the discovery of Smad tumor suppressors and the elucidation of their function in development and cancer. His ongoing studies of these complex molecules have shed new light on how cells communicate during embryonic development and how cellular miscommunication in adults can lead to tumors.

This year’s election brings the total number of AAAS Fellows at Arizona State University to 67.

Tromp named dean of New College of Interdisciplinary Arts and Sciences

Marlene Tromp, director of the School of Humanities, Arts and Cultural Studies, has been named dean of ASU’s New College of Interdisciplinary Arts and Sciences, effective July 1. Tromp, a professor of English and women’s studies, joined the ASU faculty in 2011 from Denison University, where she also was a full professor.

She will succeed Elizabeth Langland, who earlier this year announced that she was stepping down as dean to return to the faculty.

During the short time she has been at ASU, Tromp has had a major impact. She developed a campus-wide series on “War and Peace” and also helped create an innovative New College writing program. In addition to teaching and her administrative duties as director of the School of Humanities, Arts and Cultural Studies, she serves on the Project Humanities Advisory Committee.

Tromp has received significant teaching awards for her work in the classroom. At Denison University, she was awarded the prestigious Charles Brickman Award for outstanding teaching and scholarship. She also has been named Teacher of the Year by the Prevent Abuse and Violence Education Association and was twice named a Mortar Board Outstanding Professor.

Tromp said of her appointment, “It is an exciting time for New College and West Campus. Our genuinely talented faculty and path-breaking programs offer so much to our students, and Dean Elizabeth Langland’s leadership has built a broad and strong foundation for the college’s growth. I feel fortunate and honored to lead my colleagues into a new phase of New College’s development.”


Tromp received her bachelor’s degree in English from Creighton University, her master’s degree in English from the University of Wyoming, and her doctorate in English from the University of Florida.
A group of former and current ASU engineering, marketing and sustainability students learned valuable lessons while competing in the 2012 Yum! Global Sustainability Challenge in Louisville, Ky.

FlashFood is developing a mobile-phone application as a communication and coordination tool for a food recovery and distribution network. The idea is to collect leftover and excess food from restaurants, catering services and banquet halls and deliver it to various community and neighborhood gathering places, from which the food will be distributed to people in need.

The team was one of six finalists selected from among the 40 teams that initially entered the Yum! Challenge. FlasFood earned a Best in Showcase award, voted on by members of the local community attending the event and by Yum! employees.

FlashFood members said the value of the competition was in learning ways they can improve their business plan and the service they hope to provide.

“It challenged us to consider how fast-food restaurants can use FlashFood, and what those financial and logistical models would look like,” said team leader Eric Lehnhardt. It pushed the team to go beyond developing an innovative concept to devising a model for a successful company, he said.

Applying the guidance they received at the national competition, team members now are focusing on completing beta testing for their mobile-phone app and gathering information from market-validation research.

FlashFood’s success at the Yum! Challenge came after the team won the U.S. finals of the highly competitive Microsoft Imagine Cup in the spring. This earned the team a place in the premier international student technology and innovation competition – the Imagine Cup worldwide finals last summer in Sydney, Australia.

Microsoft produced a series of videos chronicling FlashFood’s road from the U.S. Imagine Cup finals to the worldwide finals. To view, visit http://goo.gl/KwBfr.
Ringing true

Athletics revives tradition of the Victory Bell

Tradition is what’s new at Arizona State University.

Last April, Sun Devil Athletics announced its intent to restore the tradition of Sun Devil Football at Camp Tontoza. By the end of May, the campaign was declared a success and in August, Head Coach Todd Graham and the rest of the team called the famed mountain retreat near Payson, Ariz., home.

Now, the school is bringing back the custom of ringing the Victory Bell, a tradition that dates back to the 1930s. The original bell began its life at Arizona State Teachers College in the late 1930s as a dinner bell that hung in the dining hall and summoned students to meals. Shortly after, however, the bell started being sounded for athletic victories, thus becoming the Victory Bell.

However, in 1956, U.S. Sen. Carl Hayden donated a piece of sandstone from the original White House, and as part of the christening ceremony for the opening of the Memorial Union, the bell was installed on this pedestal and given a place of honor on the west patio. The bell was removed some time in the 1970s when the Memorial Union was remodeled, and then the bell disappeared from the Tempe campus.

The ASU Undergraduate Student Government purchased the new Victory Bell as a gift to the students, student-athletes, alumni, and supporters of Arizona State University. Cast in 1941 by the Meneely Bell Foundry, and 18.75 inches in diameter and 150 pounds, this bell closely resembles the original in both size and model. The bell is mounted on a custom Maroon and Gold wagon, and is portable and will be present at all sporting venues to ring in victories.

A Victory Bell Honor Guard, which will be made up primarily of ROTC students, also is being established to accompany the bell when in public and at Sun Devil Athletics events.

The Victory Bell that is currently outside the southeast entrance at Sun Devil Stadium was a gift to ASU students from Judge Ross F. Jones in the late 1960s. It was intended to replace the original, smaller bell, but was too large to transport and eventually developed a crack in it that does not allow it to ring anymore.

Graham said that having the Victory Bell ring out during ASU home games would be just one more way that football traditions at ASU unite alumni, students, and all fans.

“I just love the pageantry of college football,” Graham says. “The tradition, the customs – all of it helps enhance the experience for student-athletes, coaches, staff, fans, supporters and alumni.”
John Parker, an Honors Faculty Fellow at Barrett, The Honors College at ASU, and Edward Hackett, a professor in the School of Human Evolution and Social Change, will lead a two-year study focusing on creative interaction among scientists.

The study, supported by a $250,000 award from the National Science Foundation, will involve placing wearable computers, in the form of necklaces, on scientists who are collaborating in interdisciplinary working groups. This pilot project will utilize a combination of resources from several universities. Parker and Hackett will direct the project, the sensors will come from MIT, and the working groups which they will study – with eight to twelve members – will be from the National Center for Ecological Analysis and Synthesis at the University of California in Santa Barbara, the National Evolutionary Synthesis Center in Durham, North Carolina, and several international research centers.

The computers, called sociometric sensors, are outfitted with infrared transceivers, accelerometers, and microphones, and track how scientists interact with each other quantitatively and in real time, Parker said. The neck-worn devices measure the duration, timing, volume and pitch of participants’ speech, their physical movement and face-to-face orientation, as well as how many times and for how long they interact with each other.

The nature of the work group interactions, including patterns of activity, emotional energy, gender, nationality, seniority, and expertise will be observed and documented. Participants will be interviewed throughout the study. Questionnaires also will be used.

According to Parker, the idea behind the study is to develop an understanding of how different patterns of organization and interaction influence group performance and creativity, and facilitate deep synthesis of highly diverse scientific theories, concepts and methods.

The project also has the potential to advance human well-being by working to understand how to best orchestrate highly creative scientific work and link it to broader societal purposes, Parker said.

“This study will not just be accumulating knowledge for knowledge’s sake. We will try to understand how to create an environment and social interactions that facilitate scientific productivity and creativity … how to create conditions that allow scientists and decision makers to collaborate to make the world a better place.”

Together is better

ASU faculty receive $250K, NSF grant to study creativity among scientists

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Questions into answers

ASU professor recognized for innovations in science education

Lectures, PowerPoint presentations and assigned readings are the basis of the typical classroom experience, but experts say science education is moving away from this traditional teaching routine.

A new teaching style called inquiry-based instruction focuses on student inquiry and project-based learning. It encourages students to develop creative and practical problem solving. Kip Hodges, founding director of Arizona State University’s School of Earth and Space Exploration, was honored in a recent issue of Science magazine for his work in developing this teaching style.

Hodges was chosen as one of 15 recipients of the Science Prize for Inquiry Based Instruction by the editors of Science magazine. He describes his work in an essay published in the Nov. 30 issue of Science: “Instead of giving students information in a classroom, the idea behind inquiry-based instruction is to create an environment where students have to find things out for themselves,” Hodges writes.

Hodges initially developed the idea for his teaching style for a class named Solving Complex Problems at the Massachusetts Institute of Technology, where he taught before moving to ASU in 2006. In that class, Hodges said he challenged his students to design a mission to Mars to search for signs of past or present life.

“Students had to learn how to find information from many different domains of science, engineering and policy,” Hodges said. “They learned how to think across the boundaries of traditional disciplines.”

At ASU, he used the same approach teaching Engineering Systems and Experimental Design, a class typically taken by students majoring in earth and space exploration in the School of Earth and Space Exploration, a part of the College of Liberal Arts & Sciences, as well as students studying aerospace engineering in the School for Engineering of Matter, Transport, and Energy, located within the Ira A. Fulton Schools of Engineering.

Hodges hasn’t taught the engineering systems and experimental design class since the Fall 2011 semester because of curriculum restructuring within the school. But starting in the Spring 2013 semester, Hodges will teach the senior capstone course for the school’s undergraduate major in earth and environmental studies as an inquiry-based class.

“The more we teach students that there is a profound value to creativity, the better we’re serving them in terms of preparing them for the rest of their lives,” he said.

On board

Alumna Eileen Klein named ABOR president

Eileen Klein, a 1998 graduate of Arizona State University’s master of public administration program and Arizona Gov. Jan Brewer’s former chief of staff, has been named the president of the Arizona Board of Regents (ABOR). She was confirmed by the board at its meeting in December.

Klein was chosen because of her experience in senior management, strategic planning, fiscal management and working with legislative bodies, said Rick Myers, ABOR chairman.

“Ms. Klein embodies all of the leadership attributes the board sought when we embarked on our search for a new president,” Myers said. “She has a keen ability to bring diverse groups together to develop consensus around sound public and fiscal policy. In addition, her understanding of the essential role higher education has to our state’s economic vitality will strengthen our efforts to ensure Arizona’s higher education enterprise is serving students, business and the state to its greatest capacity.”

In her role as chief of staff for Gov. Brewer, Klein was instrumental in launching Arizona Ready, an education reform plan to align statewide education goals across the P-20 spectrum. Klein also worked closely with ABOR to develop a new performance-based funding model for the university system.

In addition to her degree from ASU, Klein has a bachelor’s degree from Florida State University.
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Executive influence

Amy Hillman named dean of W. P. Carey School of Business

Amy Hillman became dean of Arizona State University’s W. P. Carey School of Business on March 1. Hillman had served as executive dean at the school since 2009, playing a key role in its growth and success.

Hillman succeeds Robert Mittelstaedt, who helped build the school into one of the largest and highest-ranked business schools in the world, with more than 10,000 students. He will remain at ASU as dean emeritus and professor of management.

Hillman is a world-renowned management professor and holds the Rusty Lyon Chair in Strategy at the school. She has won numerous national awards as an outstanding reviewer and researcher. She was editor of Academy of Management Review, the world’s top management journal in terms of citation impact, and her research has been featured in USA Today, The Washington Post and U.S. News & World Report.

“I’m excited to have the opportunity to lead a terrific group of faculty, staff, students, alumni and our friends in the business community forward,” said Hillman. “The W. P. Carey School of Business is on a steep trajectory toward becoming one of the world’s finest institutions committed to making meaningful contributions to the lives of our stakeholders and also to the future of business practice.”

Students and colleagues consider Hillman to be an exceptional teacher, having honored her with two Outstanding Professor Awards and two Outstanding Teacher Awards. She also was voted one of the most popular professors in Businessweek’s rankings of MBA faculty in 1998.

Before her impressive tenure in academia, Hillman worked as general manager of a small retail and manufacturing business, and she now plays a key role in promoting entrepreneurship at the W. P. Carey school. She previously taught at the University of Western Ontario, Michigan State University, Johannes Kepler University in Austria, Texas A&M University and Trinity University. She has a Ph.D. from Texas A&M.
Show your Sun Devil pride for life. Become a life member at alumni.asu.edu or by calling 1-800-ALUMNUS.
Good deeds

Sun Devil athletes repay community with volunteer service

By Joe Healey

When it comes to being an ASU athlete, there are some commonalities — Sun Devils study, Sun Devils compete and Sun Devils persevere. Through wins and losses and other inevitable highs and lows, one standard of excellence never wavers among ASU student athletes — Sun Devils also serve others.

The motivation to serve local and extended communities is one that is both intrinsic and extrinsic in nature. A standard of charity is established at an early point for Arizona State student-athletes, say those who have worn the maroon and gold.

“When I was recruited here, I was told about the ‘Sun Devil Family’ and how [being an ASU student-athlete] is a small fraternity of people who really care for each other and really look out for each other,” remembers junior ASU baseball pitcher Josh McAlister. “You hear that and you go, ‘OK, that’s cool,’ but when I got to see it in the works and see Sun Devils from all different sports truly come together in times of need for people who need it, it really is amazing.”

A key catalyst in promoting community involvement by Sun Devil athletes is Patrice Feulner, herself a letter winner for the Sun Devil soccer team from 2000 to 2003. A former all-conference award winner on the field and in the classroom, she is the assistant athletic director in the Office of Student-Athlete Development and is the coordinator of service activities for Sun Devil Athletics.

“The biggest difference [from when I was a student-athlete] is that it is much more organized now and there is a unified, concerted effort to volunteer for meaningful projects for both our staff and student-athletes,” said Feulner. “We have created a ‘Sun Devils Serve’ committee that works regularly to organize efforts, market them to both staff and student-athletes and track our overall participation numbers.”

In the past few years, the volunteer projects have included working with André House, a ministry to the homeless and poor populations of the Phoenix area; helping with the Phoenix United Fantasy Flight, a charitable holiday experience for underprivileged children; and
assembling food baskets for “Cena en el Barrio,” which provides meals for the hungry. ASU student-athletes have assisted local child welfare organizations such as Helen’s Hope Chest and Sunshine Acres and have also teamed up with Avnet, Maag Toy Foundation and the Crisis Nursery to help brighten the lives of area children who have been exposed to abuse, neglect or homelessness. In December, the ASU Football team volunteered at Glide Memorial Kitchen in San Francisco on Christmas Day as part of their Kraft Fight Hunger Bowl experience.

“Student-athletes are expected to compete in the classroom and on the field, but in my four years I have learned that there is so much more,” wrote Hillary Bach, who completed her softball career at ASU last year and was named a finalist for the 2012 NCAA Woman of the Year Award, in a December 2011 blog about her experiences volunteering at the Fantasy Flight event. “Without this event, many of those kids would not have experienced Christmas. It is always a humbling experience to serve others, and I am so grateful for the platform and opportunities through my time with ASU athletics.”

From freshmen to fifth-year seniors, walk-ons to All-Americans, regardless of the sport, gender or background, the student-athlete experience at Arizona State is one that nurtures individual and collective growth and development that proudly can be displayed beyond graduation. And volunteer service with one’s teammates is part of that experience, the athletes say.

“As a student-athlete, I feel this university, this town and everyone involved have given a lot to me to be able to perform with ASU on my chest,” says McAlister. “So giving back is a huge priority for all student-athletes just because there are a lot of people who have helped them get where they are.”

Joe Healey is a Phoenix-based freelance sportswriter.

Net gain
Tennis standout ponders a pro career

Jacqueline Cako found the best of both worlds that matter to her – tennis and academics – at Arizona State University.

She has excelled in her sport to the degree where she is on the verge of turning professional. Yet she has remained at ASU for her junior season, taking classes as a student in Barrett, the Honors College at ASU and wrapping up a degree in bioscience in May that she hopes will lead her down the road to medical school.

She is a two-time All-American out of Brier, Wash., near Seattle. She didn’t go to school for the first year after high school, but decided that ASU would give her the best opportunity to accomplish her goals.

“My schedule at ASU allowed me to work on my academics and play pro tournaments (as an amateur) during the fall,” said the 21-year-old. “ASU fit all of the requirements.”

Cako has enjoyed being at Barrett.

“It is its own little campus,” she said. “It’s a great place to live in those dorms, interacting with a lot of ambitious people.”

Cako always has had a powerful serve, and she loves to volley. She prides herself on being aggressive.

“I fight on the court for every point in every match,” she said. “I go for every ball. I’ve never been one to stop until the last point has been played.

If she plays professionally, she says she knows that her collegiate career has prepared her for the challenge. “My goal is to be a successful all-around player,” she said. “The coaches at ASU have worked with me, helped me a lot, and I’ve enjoyed being with my teammates.”
Position power
Senior volleyball player changes roles and likes it

Erica Wilson is amazed.
“I can’t believe how fast four years have gone,” the ASU senior said.

They have been four very productive years, both on the volleyball court and in the classroom. The communications major had a challenging final season on the court; the 6-foot Wilson, who played at Fallbrook High School near Escondido, Calif., switched from middle blocker to outside hitter and made a successful transition.

She was named this year’s Most Valuable Player at the University of Texas, El Paso’s Sports Commission Invitational, with 55 kills and 11 service aces. At the same time she was leading the Pac-12 in aces and points, she also was named to the University of Kansas’ Jayhawk Invitational All-Tournament Team.

She has been happy that ASU is close enough to her home, allowing family and friends to come and watch her play.

“When you first get to college, it’s hard sometimes to manage school and volleyball, but then you learn more about how to do it and you mature into a student-athlete,” Wilson said.

She has come a long way since her early days in high school, when she was a cheerleader and only reluctantly tried out for volleyball at the urging of others.

“I was horrible at first, but then I grew to like the sport very much,” she said. “It’s not something that has been easy. Everybody has to work hard at it every day.

“Playing in the Pac-12 has been great. The competition is tough every time you go out there.”

Sports updates are written by Don Ketchum, a Phoenix-based freelance sports-writer.

Springing back into action
Brief football exhibition season tests Sun Devils

Arizona State’s football players recently dusted off their helmets for spring football - 15 days of workouts that started on March 5 and will run through the annual spring game on April 13.

“Any time you get the opportunity to get back on the field, it’s extremely valuable,” said Tim Cassidy, senior associate athletic director for football operations. Before joining the ASU staff with head coach Todd Graham, Cassidy served in similar capacities with coach Mike Sherman at Texas A&M and Tom Osborne at Nebraska. Cassidy is looking forward to seeing the Sun Devils’ progress as they begin the second full year in the Graham Era.

Spring ball is not so much Xs and Os, designing game plans for specific opponents, as it is seeing where the players are at in terms of fundamentals and conditioning.

“You can see where they players have come from, see if they’ve taken care of themselves since the end of the (2012) season,” Cassidy said. “You can also get a look at a few high school players who graduated early, and get a feel for some of the junior-college transfers.”

Cassidy does not coach, but has numerous duties during the year, and in the spring helps Graham make practices run smoothly.

“There is a lot of teaching going on, and our teachers (coaches) are good at what they do. They really love the game,” Cassidy said. The coaches also evaluate the players’ mental maturity.

ASU’s practices under Graham usually are fast-paced, and the spring season gets players back up to speed.

“Because most of them have been through this, they should know what to expect. They should be mentally prepared,” Cassidy said. “They need to get used to the pace of how we practice.”

ASU wins Kraft Fight Hunger Bowl

The Sun Devils beat the Navy in a 62 - 28 game at the Kraft Fight Hunger Bowl on Dec. 29. To see highlights from the game, the pregame tailgate and pep rally and other related events, visit http://asunews.asu.edu/20121230_gallery_sports.
Arizona State University baseball Head Coach Tim Esmay has been named an assistant coach for USA Baseball’s 2013 Collegiate National Team.

Esmay, who will serve as the hitting coach in addition to coaching third base, has a 131-48 record through three seasons at the helm of the Sun Devil baseball team.

USA Baseball is the national governing body for amateur baseball in the United States. The organization selects and trains the World Baseball Classic, World Cup and Pan American teams, as well as the Collegiate team and teams for top players 18 years old and under, 15 years old and under, and the Women’s National Team. All of the organization’s teams participate in various domestic and international competitions each year.

“For me, there is no greater honor than having the opportunity to represent the red, white and blue,” Esmay said. “I have been fortunate to coach a number of Team USA members at ASU over the past three years, so I am familiar with the skill level, competitive spirit and overall baseball IQ required for this global stage. I can’t wait for the chance to coach an entire team made up of young men with those characteristics.”

Since being named ASU’s head coach in 2010, Esmay has helped guide four Sun Devils to the USA Collegiate National Team, including Trevor Williams in 2012, Deven Marrero and Brady Rodgers in 2011, and Drew Maggi in 2010. He helped five others make the team as an assistant coach with the Devils, including Matt Newman and Mike Leake in 2009, Petey Paramore and Brett Wallace in 2007, and Jim Austin in 1990.

The dates for the team’s 2013 schedule and opponents are available by visiting [http://USABaseball.com](http://USABaseball.com).
Safe and sound

ASU security and peace research broadens in a post-9/11 environment

By Sarah Auffret

Professor Danny Peterson teaches classes in incident command and emergency operations center management in the Environmental Technology Management program within ASU’s College of Technology and Innovation.
The world, and certainly the United States, changed in many significant ways after the terrorist attacks of Sept. 11, 2001. Since that time, many ASU research projects and scholarship initiatives have focused on making the world a safer, healthier place to live. Some research has focused on defending U.S. citizens with better security measures, while other work has focused on creating a better understanding of how to make peace with other nations and groups.

“ASU is a university that goes after the big national and international challenges,” said Werner Dahm, director of ASU’s Security and Defense Systems Initiative, which provides a single point of access for companies and government agencies looking for research partners in security and defense-related programs. “Our faculty members have a desire to be involved in real-world research, and to solve problems in a research sector that is vital to Arizona and the nation.”

Dahm points out that motivation to succeed in this research sector extends beyond simple patriotism. “Arizona has the fifth largest employment in security and defense in the United States,” he said. “Many of our students want to get involved in improving the nation’s ability to be competitive.”

Averting and mitigating disasters of all kinds

The scope of the security-related research being done at the university is both broad and breathtaking. From modeling the spread of infectious disease to developing the new field of peace studies, ASU works closely with industry and government partners in hundreds of projects that offer hope for the future.

Some of the most obvious work is done to support military troops currently or potentially in combat situations. In the desert surrounding the Polytechnic campus, ASU students worked to create a self-sustaining outpost that can support the needs of 25 soldiers for 90 days, with solar panels, a water filtration system, secure protective walls and bunk beds that fit into a suitcase.

Rodolfo Diaz and Sergio Clavijo, professors of electrical engineering, have developed a new class of body-wearable antennas based on magnetic rather than electric currents. Soldiers can wear belts that facilitate electronic communication, rather than carrying around equipment requiring large antennas. And an entirely
new class of communications devices for military use are being developed at the Flexible Display Center, which is creating lightweight, wearable devices that soldiers in the field can use to view digital maps and other data on a flexible plastic screen that won’t shatter or crack like glass.

Other research at ASU focuses on preventing or minimizing the impact of terror activities on ordinary citizens. Much of this research focuses on dangers introduced in subtle ways, rather than through overt means such as hijacked jetliners.

For example, underwater sensors at the Biodesign Institute designed to monitor the health of oceans by trolling their depths also can pick up trace contaminants and the tiniest amounts of bio-warfare toxins in drinking water. And Rolf Halden, engineering professor and director of the newly created Center for Environmental Security, is studying chemical and biological threat detection in the environment and tracking human diseases caused by environmental exposure.

**Preventing the intentional spread of infectious diseases** is the goal of Carlos Castillo-Chavez, executive director of ASU’s Mathematical, Computational and Modeling Sciences Center. He uses mathematical models of human and animal movement and behavior to predict how an epidemic may spread, whether naturally or deliberately.

“Pandemics and new emergent agents are incredibly destabilizing,” he said. “Combined with today’s rapid flow of communication, they can have tremendous consequences, closing down industry and commerce, devastating whole economies.

“Influenza-like strains that spread quite rapidly could be used to deliberately hurt unsuspecting populations. Foot and mouth-like diseases, which could be introduced to a large farm on the soles of shoes, can create outbreaks that would devastate our food supply and cause economic chaos. During (a naturally occurring) outbreak in Britain in 2001, millions of sheep, cattle and pigs had to be destroyed. It cost about $20 billion.”

Castillo-Chavez, who has lent his expertise to state and federal groups in the past, examines what will happen if there are not enough vaccine or treatment supplies available to slow down epidemic outbreaks, or the impact of delayed responses. His models assess the relative human and economic costs of fighting an epidemic, as well as the effect it can have on a nation’s security and stability.

**If a large-scale emergency – such as a pandemic**, an environmental disaster or other statewide or national emergency – does befall a community in the United States, fast, effective communication and good management will be important in handling it, said Danny Peterson, professor of Environmental Technology Management. He teaches courses in homeland security, terrorism defense and national incident management.
“I teach about catastrophic natural and environmental disasters. I also teach a class in terrorism and specific weapons of mass destruction – chemical, biological, radiological, nuclear, explosive, cyber – and how to respond to them,” he said. “We’re one of the few schools in the U.S. that has a degree program in environmental technology management. There’s an overlap between environmental and emergency management.”

The ETM program at the Polytechnic campus is home to a state-of-the-art Emergency Operations Center (EOC), one of five secure facilities in Arizona where emergency personnel can coordinate a response and recovery process after a disaster or incident.

“ASU has partnered with the Arizona Division of Emergency Management to create an alternate EOC, in case one of the other state centers goes down,” Peterson explained. “It’s the best alternate EOC in the country, better than most state EOCs, with 47 phone lines, computers, monitors, everything. We also do simulation and education here.”

Angela Trethewey approaches the murky world of terrorism and national security from another angle. As director of the Hugh Downs School of Human Communication and senior research faculty at the Center for Strategic Communication (CSC), she applies her knowledge to find ways of countering ideological support for terrorism through the use of narrative.

As part of a CSC-based team awarded a $6.1 million research grant in 2012 by the Defense Advanced Research Projects Agency to study the way our brains react to narrative, she is studying the effects of persuasion, familiarity and form in traditional stories.

“Extremists around the world frame local events around their own cultural narratives, to instill hostility, recruit followers and incite action,” Trethewey said. “If we don’t understand their narratives, we don’t know how they are communicating. We’re looking for patterns, and how we can disrupt those patterns.

“We might do a better job as Americans of narrating what we do, what our interests are and how they might align with other groups. Communication is powerful. If done well, it can be a much more effective strategy for conflict resolution than military operations.”

Trethewey’s work aligns closely with that of the Center for the Study of Religion and Conflict, which was formed not long after 9/11 to examine the role that religion plays in global conflict.

The center hosts speakers and seminars, and promotes research into the dynamics of religion and conflict, seeking solutions and informing policy. Often, the
research is focused on the role communication plays in conflicts. For example, Religious Studies Professor Mark Woodward’s research team won an award from the Human Social Culture Behavior Modeling Program at the U.S. Department of Defense in 2011 for their innovative research approach aimed at strengthening the U.S. government’s understanding of movements within Muslim communities actively working to counter violent extremism through communicating ideas contrary to those of the extremists.

Linell Cady, director of the Center for the Study of Religion and Conflict, asserts that a generalized demonization of all Muslims is based on a misunderstanding of how extremists use religion to achieve ideological goals.

“A lot of people interpret Muslim extremism as a version of Islam that signals its true character, as opposed to a political movement that uses religious ideology to mobilize people,” said Cady. “It’s important what we do to dispel anxiety and fears based on misunderstanding.”

The center has an initiative in peace studies led by Yasmin Saikia, the Hardt-Nickachos Chair in Peace Studies, that offers coursework and scholarships as well as an annual lecture. The program focuses on understanding cultural differences and building relationships that lead to harmony.

Ultimately, peace research holds the potential to resolve security issues proactively.

“Understanding peace is a dynamic process. It’s not just tamping down conflict. It involves intergroup relations, conflict resolution and alternatives to violence,” said Cady. “We want to foster a more just, inclusive, peaceful way of life.”

Sarah Auffret, formerly assistant director of media relations for ASU, is currently a Tempe-based freelance writer.
Health Solutions initiative takes holistic approach to encouraging wellness

By Christopher Vaughan
Keith Lindor, M.D., Executive Vice Provost of Health Solutions.
ASU’s Keith Lindor, M.D., likes to think in terms of opportunities. He spends a lot of time envisioning the future of health care in this country, and he asserts that keeping people healthy in the future will require a radical rethinking of health care itself.

“We spend twice as much on medical care as any other country, but we rank 37th in terms of health outcomes,” Lindor points out. With health care already costly for many, the system in the United States is about to absorb large populations of aging baby boomers and many who were previously uninsured.

“Health care consumes 16 to 17 percent of the country’s gross domestic product,” he notes. “It’s not surprising that there are a lot of people thinking about it.”

In 2012, ASU decided to go well beyond just thinking about it and dive deeply into the opportunity to design a more efficient health care delivery model. In July, the university formed the College of Health Solutions, and hired Lindor as its dean, as well as the institution’s executive vice provost of the Health Solutions initiative. The new college will be an academic and administrative home for many of those involved in health solutions programs, and act as a central hub for the many independent colleges and programs that are not part of the college but still part of the Health Solutions umbrella.

The formation of the new college, combined with research, training and partnerships with health providers that will be managed under Health Solutions, positions ASU to address many short-term and long-term health care challenges facing the nation. And that’s just the sort of opportunity the university should be pursuing, according to Lindor.

“Years ago, hockey great Wayne Gretzky was asked how he was able to score so many goals,” he said. “He replied that he skated to where the puck is going to be. We need to place ourselves where the field is going to be.”

Innovation at the “blurry edge” of medicine

Health Solutions began not with the vision of the great things the university could do, but with a realization of all the great things ASU already was doing. “When we were working with the University of Arizona’s medical school, we started compiling a list of all the health-related research ASU was doing and realized there was a lot of good work going on,” says Executive Vice President and University Provost Betty Phillips. The umbrella group of health-related research was at first called Health Outcomes, but the name morphed to Health Solutions and it was decided that this umbrella should be the nucleus of a new college. “It gives it a legitimacy that everyone can understand,” Phillips says.

Many people might think that the fact that ASU does not have a medical school or associated medical center would not put the university in a good position to create major changes in the practice of medicine. But Phillips, Lindor and others see this as an advantage.

“One of the reasons that ASU can play an important role in moving this along is that we don’t have an embedded academic medical center,” Lindor adds. “People feel that progress happens most rapidly at the edges of fields, and ASU has been very good at creating more edges and blurring the edges of existing fields. One of the things that happens at medical centers is that the physicians who run it are seen as the experts, and that interferes with discourse across the whole university. We have physicians involved, but they are just some of the expert voices that are shaping the discourse.”

Lindor, whose medical specialties include internal medicine and gastroenterology, was hired away from the Mayo Clinic to head up the College of Health Solutions because he had the “perfect background” for the job, says Provost Phillips. “He was instrumental in redesigning the curriculum at Mayo, and he was the one who first had the idea (for Health Solutions).”

At its most basic level, the Health Solutions brings together different experts who have interests in health issues. “In my first month here I was connecting people who had never worked together after years at ASU,” Lindor says. The most important part of creating the college is that it embodies an official faculty home for them, Lindor says.

“The challenge is to rethink how all health care is done, and for that we need a dedicated program because the university is so big.”

College combines key players under one roof

The largest part of the College of Health Solutions is the School of Nutrition and Health Promotion. “To me, that name speaks volumes. This is one of the few places in the country that emphasizes nutrition and exercise science,” Lindor says.

Much of the focus within the college is not on what happens in the hospital or the doctor’s office, it is on the things we do every day.

“We are going to focus more on a healthy environment, which is one of the most important drivers of good health,” Lindor says. “We are seeing more links between behaviors like eating well and exercise and being healthy.”

Good nutrition and exercise are not just a key to staying healthy, they are also the key to making good health cost effective. Lindor is fond of the saying, “A stitch in time saves nine,” and finds it highly applicable to staying healthy in the first place in order to avoid a cascade of other highly expensive interventions.

Just one example is gastric bypass, which is the most effective intervention in diabetics who are obese, Lindor says. The cost of this single procedure is $100,000, he says, and there are likely to be many other expensive health needs for these patients. “Compare this to the cost of teaching people what to do and how to eat to be more healthy,” and avoid obesity in the first place, he says.

The college also brings under its umbrella the School of the Science of Health Care Delivery, which will offer an innovative new master’s degree in that subject to medical students receiving their training at Mayo Clinic Arizona.
The idea is that if we are going to change things we need people who are not just trained in medicine, but who are also trained in all the other factors important in providing health care,” says Phillips. “These medical students will learn health economics, finance, systems thinking, behavioral training and other important subjects.”

Having an understanding of all aspects of health care delivery is not just about having well-rounded professionals. “Huge changes in the health care system are inevitable,” Lindor says. “We believe that the training in the science of health care delivery will prepare a wide variety of people involved in health care to navigate these changes and lead us to better systems that improve health outcomes, lower costs and enhance access.”

Provost Phillips concurs: “The idea is that if you are going to make health care better, you need to have people who not only understand medicine, but also understand how it is delivered.”

ASU already has a very strong presence in the field of bioinformatics, and Health Solutions has made this capability a centerpiece of the new college. Some people think of bioinformatics as the use of computers in medicine, but those in the field define it more broadly as data-driven decision-making. The data can relate to everything from behavioral changes to interpreting whole-genome sequencing for cancer therapy.

In the future, experts think that bioinformatics will play a key role in determining what drugs and therapies work and which ones don’t, but it will also be a part of our everyday lives, such as the collection and analysis of data on our smartphones about our activities, what we eat, our temperature, blood pressure, social interactions and other biological markers of our overall health.

Working with community partners

The creation of the new college establishes a hub for collaborations, both internally and externally. ASU already has forged mutually beneficial partnerships with major institutions that practice medicine in the Valley, institutions such as the Mayo Clinic Arizona, Banner Good Samaritan Medical Center, the Barrow Neurological Institute, and others. Overseeing this aspect of the initiative is Associate Vice Provost J. Alan Rawls, who directs ASU’s Office of Clinical Partnerships.

“The Office of Clinical Partnerships
actually preceded Health Solutions,” says Rawls. “It was established in 2005 with the express purpose of developing relationships between ASU and physicians in the community. It has really blossomed into a more holistic view of how ASU can participate in health care.”

There are a number of barriers that separate university departments and hospital clinics, and one of the main jobs of Rawls’ office is to break down those barriers. “There are issues with intellectual property, with grants, subcontractors and institutional review boards,” Rawls says. “We can have structures in place that look at those issues ahead of time.”

As part of their health research, ASU scientists often want to do collaborative studies with community physicians. Because these studies involve human subjects, the researchers have to receive approvals from the institutional review boards (IRBs) from ASU and the pertinent hospital. In the past, this caused significant
delays, but the Office of Clinical Partnerships worked with ASU’s Office of Research Integrity and Assurance and representatives from Banner Health, DignityHealth, and Maricopa Integrated Health Systems to establish a reciprocal IRB agreement to streamline the process.

“This has limited the duplicative effort, shortened the time to initiating the study, while ensuring that we are in compliance with university, hospital and federal policies,” Rawls says.

Nurses add collaborative power

There are many issues and challenges that will have to be addressed as the health care environment changes in the coming years, but there is one allied profession that has experience with many of those issues already: nursing.

“In nursing, the perspective is very broad,” says Teri Pipe, dean of the College of Nursing and Health Innovation at ASU, a college that collaborates heavily with the College of Health Solutions. “We are professionals who are responsive
to the continuum of health to illness, and very focused on preventative measure even when someone is sick in order to prevent later illness or to keep the individual from getting worse.”

Nurses, Pipe says, have long-standing expertise in primary care, chronic care management, and managing transitions of care between the hospital, home community-based care and hospice in a way that aligns with the values of patients and their families. “This new environment has the chance to bring out those areas of expertise in a very effective way, providing care that is patient-centered, safe, accessible and cost-effective,” she says.

For these reasons, leaders at ASU see the College of Nursing and Health Innovation playing a pivotal role side-by-side with the new College of Health Solutions. Nursing-related programs are simultaneously an incubator of ideas and research that will build the intellectual foundation of changes in the health care field, and also a practically oriented educational program turning out professionals who will actually implement those ideas in a clinical setting.

The College of Nursing and Health Innovation is an incubator for transformative health science research because it is an intensely collaborative arena. “We bring different disciplines together so that we learn from each other and about each other,” says Pipe. “The result is that the research goes beyond regular disciplinary boundaries. We reach out to dentistry, medicine, business, nutrition science—many disciplines can be involved in finding solutions.” The results are found in obesity research that focuses on understanding obesity and finding workable solutions to it over the entire lifespan. It is also found in research into the nature of resilience, which has been used to help cancer patients achieve a better quality of life.

The type of research conducted at the College of Nursing and Health Innovation resonates with the kind of course change that the College of Health Solutions is trying to chart for American medicine, says Elizabeth Reifsnider, the associate dean for research for the nursing college.

“Nursing research has long been focused on health and wellness,” Reifsnider says. “Now health practitioners have become increasingly aware of the need to focus on the early stages of things.”

Caring for the caregivers

As the associate vice provost of Health Solutions, David Coon works with Lindor to coordinate academic initiatives as well as research collaborations. But as a faculty member of the College of Nursing and Health Innovation, he is himself conducting the kind of research that epitomizes the approach that ASU is taking to solve current health care problems.

Coon developed a program called CarePro, which seeks to reduce stress amongst caregivers for family members with Alzheimer’s disease or related dementias. He’s also developed another program, EPIC (Early-stage Partners In Care), which is designed to help people who are at the early stages in progressive dementias take part in making decisions about their later care.

“Taking care of someone with Alzheimer’s or a related dementia can be extremely stressful,” Coon says. He notes that those with dementia will display behaviors like becoming extremely agitated or upset when they wake up in the middle of the night and don’t recognize their surroundings, or will repetitively ask the same questions, or will shadow their caregiver everywhere.

Coon and his colleagues help people understand how to manage their stress and distress better, how to bring pleasure back into their lives, how to communicate with other family members better.

“We work on helping people take care of themselves as best they can,” Coon says. “When they decrease their own stress, it increases the quality of life for more than one person.”

For Coon, CarePro and EPIC represent the essence of Health Solutions.

“We are helping people to change behaviors, which is an essential part of Health Solutions, and we are embedded in the community, reducing the lag time between the research and the effect on people’s lives.”

Encouraging healthy changes that last

Obesity and associated pathologies like insulin insensitivity and diabetes are the subject of a great deal of ASU research because they represent some of the richest targets for the application of health solutions. The number of those diagnosed with diabetes is expected to nearly triple in the coming decades, and the disease can degrade nearly every system in the body. But obesity and insulin insensitivity also are responsive to behavioral interventions—such as getting people to eat a more healthy diet and exercise more.

Provost Phillips’ own research is focused on this issue; she investigates how people can change their eating habits and environment to combat obesity. Phillips observes that humans are creatures of habit, and that their living patterns and environment affect how much they eat.

“People have done experiments in which they refill a soup bowl from underneath as people eat and they will keep eating as long as there is soup in the bowl,” she says. Phillips has taken a trip into the student dining halls at ASU and observed that desserts are everywhere, and nutritional information is tucked away out of sight, both of which encourage unhealthful eating.

But we also can teach people to change their habits, Phillips says.

“The best way to teach kids to like a vegetable is to mix it with something they like. After about five times they will start to like the vegetable by itself,” she says. “We’ve taught kids to like Brussels sprouts that way.”

Behavioral change amongst ASU’s own students will be the first research target of Health Solutions, Phillips and
Teri Pipe, dean, College of Nursing and Health Innovation.
Lindor say. “We are going to be offering all freshmen the opportunity to be weighed, and will give them individual health feedback as they progress through school,” Phillips says. Along the way they will be using tips and tricks to get students to be eat more healthfully, she says, such as teaching them to think about what they are eating so they don’t eat mindlessly.

One particularly intriguing tool to encourage this sort of mindfulness is to have students bring in their favorite dessert and then eat it after drinking a tea made from Gymnema sylvestre, an herb that blocks the taste of sweet flavors for up to 30 minutes.


Information by itself, even demonstrations of the downsides to popular desserts, will not ensure that future generations get on and stay on a healthier path than their parents or grandparents. Healthful habits, practiced daily and repeated over a lifetime, are much more likely to create the paradigm shift that the nation needs, so that as the delivery model improves, physicians and other allied health professionals will be able to partner with patients and resolve problems that are not at a catastrophic end stage.

The engagement with current ASU students is an opportunity to test this hypothesis. The hope is that by the time they graduate, students will have acquired habits that will give them better physical and emotional health, Lindor says.

“This is an opportunity to take a population we know well – our students – and to find out how we can find better ways to keep them healthy,” Lindor says. “If those principles can work here, they can be scaled up to the larger population.”

Christopher Vaughan is a freelance science writer based in Menlo Park, Calif.

Elizabeth Reifsnider, associate dean for research for the College of Nursing and Health Innovation.
Associate Vice Provost of Health Solutions David Coon (front row/center) and his team are developing programs to help caregivers and patients with Alzheimer’s and related dementias reduce stress and make informed choices about care.
Associate Professor of Design Prasad Boradkar is director of ASU’s InnovationSpace joint venture.

**Odontomachus Tensile Structure**
Adam Tate, Architecture

The challenge of designing pedestrian bridges or architectural columns is that they need to be strong and stable, yet not overly heavy. The Odontomachus is a beetle with a highly-engineered and lightweight body, and its natural features can inspire new design solutions.

**Bat-wing Umbrella**
Clint Penick, Biology

Among the most valuable forms in biology's field gear is an umbrella. One heavy metal umbrella, however, can send a flyer中国梦 straight into the trash.

Biologist Clint Penick turned to bat wings to design a new kind of umbrella. Bat wings are flexible and can bear great weight without breaking. The design utilizes a similar structural strategy: large membranes stretched across a scaffold of thin ribs, but there is one important difference: performance.

Penick learned that the different joints in bat wings could be used to create an umbrella that not only blocks the wind but also prevents the canopy from collapsing. This is achieved by using the flexible nature of the bat wing to create a dynamic structure that adapts to changing wind conditions, allowing the umbrella to remain functional even in strong winds.
LISTENING TO MOTHER NATURE

Biomimicry research applies organic wisdom to diverse challenges

By Christopher Vaughan
When ASU Associate Professor of Design Prasad Boradkar takes a walk in South Mountain Park, he sees inspiration all around him. “I see organisms that are really good at resource management,” Boradkar says, like the saguaro cactus that has pleats to expand so that it can rapidly soak up water when it rains, and thorns that not only protect the plant but also shade the plant surface. “The plants and animals there are well designed for the context in which they live,” he said.

Designers like Boradkar consciously have been using natural inspirations to serve as the basis for human designed objects for some time. This biomimetic, or bio-inspired, design harnesses ideas that nature has produced. Now, however, an increased emphasis on innovation, use-inspired research and sustainability is creating excitement at ASU about biomimetic design principles in wide variety of fields, from consumer packaging to energy research and robotics.

**Waste not, want not**

Boradkar is director of InnovationSpace, an entrepreneurial joint venture among the Herberger Institute for Design and the Arts, the Ira A. Fulton Schools of Engineering and the W. P. Carey School of Business that teaches students how to develop products that create market value while serving real societal needs and minimizing impacts on the environment. The program focuses on using biomimicry and a model called “integrated innovation” as its two fundamental strategies used to teach outstanding innovation.

Over the last seven years, InnovationSpace has brought together students from industrial design, graphic design, engineering and business who work together in teams to create a capstone project during their final year.

“Using biomimicry in the classroom serves two functions,” Boradkar says. “Looking at how plants and animals are tackling the challenges of their environment inspires creative solutions, and the second thing is that by looking at how nature tackles those problems we might be able to come up with more sustainable designs.”

One example cited by Boradkar illustrates how nature’s solutions can inspire less wasteful designs. “Nature produces a lot of waste, but it’s not landfill,” he says. “Often, one organism’s waste is another’s food.” One team that was designing a toy car for autistic children – a toy that would help professionals meet the unique therapeutic needs of those suffering from the disorder – wanted to minimize waste generated from packaging. They thought about how nature’s waste products are used for other purposes and designed packaging made out of bamboo, so that it could serve as storage (a garage) for the car instead of being discarded after purchase.

Another example of the kind of creative solutions that bio-inspired designs can promote is a student project involving water collection in arid regions.
Whereas typical solutions might involve digging a well or trucking in water, in this case the students looked at nature and came up with a way to manifest water out of thin air.

“They looked at the Namibian desert beetle, which has alternating hydrophobic and hydrophilic surfaces on its body arranged in such a way that when the fog rolls in, the beetle shell captures water from the air,” Boradkar says. “The students designed a product that included large deployable panes that captured water in a similar way.” Such a system could be useful in dry areas that also get fog, such as along the California or Chilean coasts.

Beyond dragonfly wings and tail fins

Although desert organisms are a local inspiration for ASU designers and students, bio-inspired design can come from any organism on earth. In 2012, Associate Professor Philip White taught a traveling biomimicry studio class for students from Herberger and from the School of Life Sciences in the College of Liberal Arts and Sciences. During the semester, the students traveled to the Smithsonian’s Tropical Research Institute in Gamboa, Panama, to study rain forest organisms and to use what they learned to create biologically inspired designs.

One major course assignment was for each student to study one organism in-depth. “They had to identify specific characteristics or parts of organisms and find a design application for the characteristic,” White says.

Although this might sound easy, many students find the assignment daunting, White says. “The thought is often that you can simply go study nature and apply what you find, but the truth is that it can be challenging to find an adaptable characteristic.”
“Many students would, for instance, want to make a building in the shape of a dragonfly wing,” White says. “That may be visually exciting, but that is not the point of the course.” Just copying how something looks, without looking at the underlying purpose of that shape, produces something as useful as the tailfins on a ’50s Cadillac—they may make the car look a little bit like an airplane, but they don’t make it go any faster.

“The ability to closely study an organism to understand how its parts interact to serve the organism is something that some students are more adept than others,” White says.

By the end of the trip, students had come up with some interesting and useful designs. White cites the work of biology graduate student Clint Penick, who designed an umbrella for windy conditions inspired by the bone structure of bat wings. Penick observed that bats are able to achieve flight without feathers because their wings are made up of a membranous skin stretched over thin, lightweight bones. These bones are arranged in an angular pattern so that if a heavy gust threatens to stretch one joint too far in one direction, the adjoining joints distribute the force by bending to offset the force. In addition, the bones get thinner and change shape from the wrist to the tip, making the ends flexible so that they can bend in the wind without breaking. Penick used this information to design an umbrella with a similar structure so that it distributed forces and prevented it from inverting when wind caught it from underneath.

Once students got into the habit of looking at animals for useful adaptations, they began getting ideas more rapidly. White mentions that on the way back from a hike, the locals had captured a sloth, which they let the students hold before releasing it back into the forest. “The sloth was fascinating—very slow and human-like,” White says. “It was covered with moss and insects, and you had to be careful of its claws, which were extremely sharp.”

One student noted that the sloth’s claws were in a closed position when its muscles were relaxed, and that it took active muscular effort for the sloth to open them.”

White notes that the principles of bio-inspired design can be derived from organisms living anywhere. “In this particular case we traveled to a tropical rain forest, but you can conduct biomimicry anywhere,” he says. “Carefully studying your organism and really understanding it are critical to the process.”

### Hands down

For ASU researcher Veronica J. Santos, the organisms that she looks to for inspiration are human beings. Or rather, one specific part of the human being: the hand. As an assistant professor in the School for Engineering of Matter, Transport and Energy of the Ira A. Fulton Schools of Engineering, Santos is using biomimicry to help design a robotic hand that functions as fully as a real hand.

“We use biomimicry principles for both the hardware and the software design,” Santos says. “We are trying to improve amputees’ quality of life by improving grasp and manipulation, and the ultimate goal is to bring human and machine together in a way that the person operating the hand feels like it is really intuitive.”

Santos’ goal is ambitious—the hand is a complex, powerful and sophisticated body part. It uses a variety
Assistant Professor of Engineering Veronica Santos (left) and her team use the human body as bio-inspiration when designing an artificial hand that functions like the real thing.
of inputs from the senses and reacts to both conscious and subconscious processes. As Santos points out, it would be easy to take some rods, hinges and cables and create something that looks like a human hand, but the user would not feel it was very human-like. Like the students who want to design a building that looks like a dragonfly wing, such a hand would mimic the look of a hand, but the important objective of biomimicry is to mimic function. “You couldn’t control it like a human hand because the sensing is lacking,” she notes.

With this in mind, Santos and her team are building a robotic hand with sensors that are able to detect force, vibration, or temperature. Information from those sensors is matched with software that mimics the processing that takes place in the human body.

“The human processing of sensor information is very context dependent,” Santos says. “If you are holding something and someone else pulls the object away from your hand, you react faster than if they push it towards your hand. If they pull the object down, with gravity, you react faster than if they pull up, against gravity.”

In some cases, context will make the difference between completely opposite reactions. If you are holding something in your hand and you hold it slipping, you automatically and unthinkingly will tighten your grip, Santos points out. But if you are handing something to someone, as you let it go the fingers will sense something that very much feels like a slipping sensation, and yet your grip is loosened. In order to mimic human function, the robotic hand software will have to distinguish between these two actions and respond in the right way.

Santos and her team also are mimicking the tendons that control the human hand, laying cables between the mechanical hand and forearm because, as in nature, that allows the hand itself to be delicate and light while the strong, fast motors (or muscles) are farther away. Because they are following a biomimetic approach, Santos and her colleagues don’t use rods that could push on the fingers to make them move, because tendons can only pull and not push. This can result in some unexpected mimicry.

“One surprise is that when tendons or cables cross multiple joints you can get flexion in one joint at the same time as you get extension in another,” Santos says. All of this adds up to a naturally more lifelike hand, she says.

“We want to create a hand that can mimic subconscious actions, such as those that may be mediated by the spine, for which people say, ‘It’s just intuitive to use, but I don’t know why.’”

**Getting small in a big way**

Biomimicry research can extend to the microscopic level, while still having macroscopic, even global, effects. Energy researcher Devens Gust, a Regents’ Professor in the Department of Chemistry and Biochemistry within the College of Liberal Arts and Sciences, is fascinated by a silent biological process that generates megatons of fuel all around us every day: photosynthesis. Finding a way to mimic that process in an artificially created light-powered cell for fuel production might change the way we get and consume energy.

“Right now we get virtually all of our energy from fossil fuels, and there are a number of problems with that,” Gust says, including pollution, climate change, and the political instability that comes when the people consuming the energy live in different countries than the people who produce it. Additionally, says Gust, fossil fuels will run out.

“Fossil fuels will last only a couple hundred years, but no more. Human society has been around for thousands of years and will hopefully be around for thousands more, so if we are going to stick around we have to start working on a replacement now.”

Solar energy is the largest source of renewable energy, but Gust points out that electricity generated by solar energy is expensive and can’t be stored in large amounts for use in long distance vehicles or when the sun is not shining. “Our idea is to look at how the process of photosynthesis works in plants, and then make a synthetic system that uses many of those processes,” he said.

Gust and his colleagues in the Department of Chemistry and Biochemistry, Regents’ Professors Thomas and Ana Moore, have been doing this research since the mid-1980s, but more recently they and eight other ASU faculty members have banded together to form the U.S. Department of Energy-funded ASU Energy Frontier Research Center for Bio-inspired Solar Fuel Production. The goal is to find a way to use sunlight to split water into hydrogen and oxygen, and then use the hydrogen to make carbon-based liquid fuels. Gust has been successful in doing this in the lab, but the process is still fairly inefficient, and he and his colleagues need to find catalysts that are cheaper than the iridium and platinum they now use.

“We know it’s possible because plants do this with catalysts containing manganese and iron,” Gust notes. “We have a system that works, but we have to make improvements before it’s useful.”

One big attraction of carbon fuels produced by photosynthesis is that they don’t release any new carbon into the atmosphere. In order to make the fuels, both the natural process and the synthetic process suck carbon from the air. Burning it only releases the same carbon back. Fossil fuels also were produced by photosynthesis, but that was millions of years ago, and the carbon has been stored safely in the ground ever since. When we burn fossil fuels, we release it once again.

This is the sort of benefit that Prasad Boradkar deeply appreciates. Yes, nature is a source of many fantastic and wonderful ideas that have been refined over millions or billions of years. But for Boradkar and other designers, the fact that many of these designs leave a smaller footprint on the world is very satisfying.

“I started out as a product designer, and product designers haven’t been very responsible about the environment in the past,” he says. “The lifecycle thinking of bio-inspired designs is what attracted me to those ideas.”

Christopher Vaughan is a freelance science writer in Menlo Park, Calif.
Devens Gust, a Regents’ Professor of Chemistry and Biochemistry, studies the natural process of photosynthesis to discover new ways to tap and store the sun’s energy.
By leaps and bounds

Dance expands its presence in ASU community

Richard Mook (at piano), an assistant professor in the School of Music, and Melissa Britt, a clinical professor in the School of Dance (immediately right of Mook), co-produce Urban Sol, a high-energy outdoor hip-hop festival.

Cultural anthropologists agree that dance has been an integral part of ceremony, celebrations and entertainment since the birth of human civilization.

Long before audiences thrilled to performances by ballet virtuosos Mikhail Baryshnikov and Rudolf Nureyev or watched “Dancing with the Stars” on television, the art form flourished. However, despite the popular culture boosts provided by superstar celebrities, dance often received its most ardent support from a smaller group of dedicated fans.

Arizona State University’s dance community has redefined what the performance medium is all about by reaching out to new and diverse community groups. At the same time, dance professors are collaborating with colleagues both within the Herberger Institute for Design and the Arts and other academic units at the university. Thanks to these efforts, dance’s sphere of influence has expanded to encompass social and environmental concerns, both locally and globally.
Reclaiming mobility, step by step

Inspired by her father who was diagnosed with Parkinson’s, five years ago Dance Professor Claudia Murphey developed Movement and Motion™, a dance-based movement program designed to improve mobility in those with Parkinson’s disease.

Murphey’s program, which has been offered since 2007 at ASU’s SkySong location, is a comprehensive movement exploration that includes a wide-range of physical experiences including stretching and strengthening muscles that takes place seated in chairs, standing, moving through space, and stretching against a wall. The movements build core strength, increase stability, expand range of motion, and improve the posture of Parkinson’s patients, while inspiring confidence and self-assurance.

“My program is somewhat different from others in that it emphasizes improving rigidity, range of motion, balance and gate stride,” points out the professor and former chair of the School of Dance. “New participants walk into my class with a hesitancy and a very narrow gait. By the end of the class, they feel confident moving through space and have no fear of increasing their speed as well as the size of their step.”

Murphey, along with collaborators Narayanan Krishnamurthi, an assistant research professor in ASU’s School of Biological and Health Systems Engineering and Ericka Driver-Dunckley, M.D., of the Mayo Clinic’s Parkinson’s Disease & Movement Disorders Center, have received a seed grant to determine the effectiveness of Murphey’s Movement and Motion™ program.

Fancy footwork highlights serious issues

Can high energy, outdoor hip-hop festivals featuring dance battles also focus on serious issues? You bet. It’s all part of Urban Sol, created by Richard Mook, an assistant professor in the School of Music. Mook works with Melissa Britt, a clinical professor in the School of Dance to produce the festival. The duo partners with instructors of other ASU classes across the university and local and national artists including KRS-One, Popmaster Fabel, Phonte, and DOSE to present two to four events per season, each of which features brief performances organized around a common theme. An event held in November at Civic Space Park in downtown Phoenix, for instance, examined the topic “Planting the Seed.”

“Urban Sol is a rich, uncharted collaboration among scholars, performers and urban artists where the classrooms are the streets, walls and public space and where discovery happens in the scratch clinics, graffiti art lessons and dance battles,” Mook said.

Another field that has benefited from dance-related collaborations has been study of the Valley’s local eco-system. In January 2012, a team at the Herberger Institute received one of the largest NEA grants awarded to an Arizona institution – $32,000 – to fund “At Home in the Desert: Youth Engagement and Place,” a program designed to enhance the lives of Girl Scout troops, grade school/high school students in underserved areas and Boys and Girls Clubs of Metropolitan Phoenix by allowing them to experience and examine their desert home through dance, music and storytelling.

According to Elizabeth Johnson, project coordinator in the School of Dance and a collaborator in the project, the partnership between students and teachers, historians and faculty from the School of Theatre and Film will create digital stories exploring Arizona’s cultural history by employing GPS technology, smartphones and YouTube, providing histories of specific Sonoran desert locations that will be linked and accessible.

As they discover the connections between desert life and the hip-hop culture, students will create original music inspired by survival in a harsh environment, and this required them to interact with that environment firsthand. “For instance, members of the Boys and Girls Clubs went around and recorded typical desert sounds to which they created lyrics,” Johnson noted.

Choreography contemplates world-wide challenges

Dance scholarship at ASU also has been used to explore regional and global issues. In 2010, Karen Schupp, an assistant professor of the School of Dance, collaborated with interactive media composer Todd Ingalls, an associate research professor at the School of Arts, Media and Engineering, to create “Western Door/Power Trail.”

The initial inspiration for the work came from a Science Friday radio feature on National Public Radio concerning harvesting water from the Great Lakes and shipping it to alleviate drought in another area, one that included the Colorado River valley.

Schupp said her personal background spurred her to examine how this relationship could be expressed in terms of movement.

“Growing up in Niagara Falls and living in Tempe, this possible water migration matched my own,” says Schupp.

“When creating the work, we looked at power, mythology of water, population change and depletion, and explored these comprehensive issues via evocative sound and visual environments.”

Last May, Grisha Coleman, an associate professor at the School of Arts, Media and Engineering, received an NEA Arts
in Media award to create an art installation with Ingalls that explores new frontiers in interactive media, while again focusing on a desert-related theme.

Called “echo::system,” the work may be viewed as a multi-media installation as well as a vocal/dance/electronic music performance; one of its chief components is treadmills modified for remote control that allow them to be played like instruments. According to Coleman, the installation gives people a sensory experience of an unfamiliar setting so that they can understand their impact on the environment.

After reviewing some of ASU’s current dance-related programs, it’s easy to see why Dance Teacher magazine has said, “the (ASU dance) program graduates dancers who aren’t merely accomplished technicians, but critical thinkers and socially conscious advocates of the art form as well.” According to Schupp, this dual perspective is a part of everything she does.

“As both educator and choreographer/performer, I value the importance of individual experiences, cultural/contextual relevance, collaboration, embodiment, reflection, and critical thinking,” she notes on her personal website. “By creating (Western Door/Power Trail), I discovered personal connections to specific geographies and shared new information about hydropolitics with others … connecting individual experiences to a broader understanding that provides a method for creative empowerment.”

Oriana Parker is a freelance arts writer based in Scottsdale.
Recently Published Books

2000s

Clare E. Ballard '08 B.A. announced the release by Tate Publishing of the genealogical memoir, “The Gems of Ginny: Memoirs of an Early Arizona Family,” that was compiled by her mother, Virginia D. Ballard, prior to her death. Clare appears as second author on the work, which she shepherded through editing and publication.

Darren Crovitz '05 Ph.D. announced the release by Heinemann of the fourth edition of “Inside Out: Strategies for Teaching Writing,” which he co-edited and updated with Dawn Latta Kirby, one of the book’s original authors.

Bill Konigsberg '05 M.F.A. announced the release of his new novel, “Openly Straight,” which is described as a coming-out-again story, by Arthur A. Levine Books.

Michael Roberts '05 B.A., CEO and chairman of Sure Storage USA, announced the release of his nonfiction work “Broke but not Broken” that details the story of his successful home-building business during the financial meltdown.

Vickey Kalambakal '03 M.A. announced the release of her first novel, “Death Speaker.” The work is published in e-book format under the name Vickey Kall and is available through Amazon.com.


1990s

Oliver F. De La Paz ’99 M.F.A. announced the release of “A Face to Meet the Faces: An Anthology of Contemporary Persona Poetry” by the University of Akron Press. He was co-editor of the volume with Stacey Lynn Brown. In addition, De La Paz read from his poetry collections “Names Above Houses,” “Furious Lullaby,” and “Requiem for the Orchard” at an event that was co-sponsored by Red Hen Press and the Poetry Society of America in Santa Monica, Calif., in October 2012.


1970s


Lawrence Lihosit ’74 B.S. received the 2011 Peace Corps Writer’s travel book literary award from Peace Corps Worldwide magazine for his book “Years On and Other Essays” that includes 12 essays about places and people in Arizona, Alaska, Mexico, Honduras, Ecuador, Peru and Bolivia. The book is published by iUniverse.

1960s


Faculty and Staff

David Pijawka, sustainability scientist in The Global Institute of Sustainability and professor in the School of Geographical Sciences and Urban Planning, and doctoral student Martin Gromulat ’12 M.U.E.P. published “Understanding Sustainable Cities: Concepts, Cases, and Solutions,” a new textbook for undergraduate students exploring sustainable cities. ASU President Michael M. Crow wrote the forward and professors from across the university contributed chapters to the book.
Divinely Guided: The California Work of the Women’s National Indian Association

By Valerie Sherer Mathes ’88 Ph.D., Texas Tech University Press.

The Women’s National Indian Association (WNIA) was founded in 1879 in Philadelphia by a group of middle- and upper-class, reform-minded women who worked to establish modern and Christian ways among American Indian tribes. During the 70 years of its existence, the organization established chapters and an effective political network of women across the United States. “Divinely Guided” is a thoroughly researched and detailed account of the development and progress of the California WNIA chapter and the influential role it played in improved conditions for American Indians who lived on reservations in that state. The work of two women, Amelia Stone Quinton and Helen Hunt Jackson, provides a strong narrative thread throughout the book and details the active political role played by women even before they were allowed to vote. In this latter emphasis, Mathes’ book differs from other works on missionary impacts and adds new dimension to the field of women’s studies.

Pregnancy, Motherhood, and Choice in 20th Century Arizona

By Mary S. Melcher ’94 Ph.D., University of Arizona Press.

At the beginning of the 20th century, Arizona was sparsely populated, towns and settlements were far apart and travel was made difficult by terrain and climate. The situation could be life-threatening for new and expectant mothers and their young children. In the 1920s, Arizona had the highest rate of infant mortality in the nation. With this history as a starting point, award-winning public historian Mary Melcher traces in this work the evolution of women’s reproductive health across the last century. The work does not shy away from difficult topics like disparities associated with race and class, political dealings, birth control, and abortion. The historian’s eye and journalist’s style shown by Melcher keep the book factual. The use of oral histories brings women’s experience to life. An important work for historians, public health workers and anyone with an interest in women’s lives, this book demonstrates that women today continue to face many of the challenges that confronted women of earlier decades.

How Winning Works: 8 Essential Leadership Lessons From the Toughest Teams on Earth

By Robyn Benincasa ’88 B.S., Harlequin.

It’s common for champions of the sports world to write books with lessons on leadership drawn from their days on the playing field, but Robyn Benincasa’s “How Winning Works” is unique. As a world-champion adventure racer, the contests she has competed in include climbing 14,000-foot mountains, paddling a canoe all night near treacherous rapids, and running through the jungle with all her gear strapped to her back. Readers might expect that extreme-sport background to make it hard for those with more modest occupations to relate to the leadership tales Benincasa espouses. But her anecdotes are grounded in common sense and kindness, which render the settings entertaining and illustrative of a greater truth. Her chapter on empathy and awareness is especially good – far from promoting a gun-ho, winner-take-all sort of attitude, it is infused with a “we’re all in this together” ethic. Benincasa asserts that teamwork is the glue that wins races, no matter how rugged they are, and it is what makes organizations, businesses and governments function at their best.
SUN DEVILS

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Coming in 2014, the new Sun Devil Marketplace located on College Avenue will bring new technology, design and product mix to this community space.

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Live and in person

Alumni Association activities cement university connections

By Liz Massey

Signature events celebrate baseball’s legacy, share ASU’s success stories

The Alumni Association inaugurated a new tradition with a new signature event on Feb. 9 – the Sun Devil Baseball Legacy dinner. The evening capped off a full weekend of events for participants. Alumni from ASU’s baseball program faced off against each other during a daytime game, and more than 500 people attended the dinner, which paid tribute to the 100+ Sun Devils who have played Major League Baseball. The association partnered with the Sun Devil Club, Sun Devil Baseball, APS and azcentral.com sports to host the event.

Supporters of the university had several opportunities to become better advocates for ASU and practice their skills of persuasion during the winter. In January, 120 ASU supporters attended a Legislative Advocacy Breakfast held at the Downtown Phoenix campus. ASU President Michael M. Crow educated event attendees about ASU’s goals for the current session of the Arizona Legislature in terms of higher education issues. On Feb. 12, advocates had the opportunity to meet with lawmakers during the annual ASU Day at the Capitol, an event designed for Arizona State University to thank local elected officials for supporting ASU and higher education projects during both the past and upcoming legislative session. Legislators and staff were invited to join the ASU community across from the State Capitol at Wesley Bolin Plaza for a picnic-style lunch. Exhibitors representing all four ASU campuses were on site to showcase projects, programs and research from ASU faculty, staff and
Alumni living outside of the Valley of the Sun had three opportunities recently to learn more about ASU’s accomplishments at events hosted by the Alumni Association that featured presentations by President Crow. On Oct. 20, nearly 200 Sun Devils gathered at the Kim Novak Theatre at Sony Pictures Studios in Culver City, Calif., at an “L.A. Stories” event to hear how ASU alums have impacted the media and entertainment industries. On Nov. 9, Crow made an appearance at an Evening with ASU reception held in Los Angeles before the Sun Devil football game against USC the next day. Crow moderated a panel of ASU administrators that included Rick Shangraw, CEO of the ASU Foundation for A New American University; Steve Patterson, vice president for University Athletics and ASU’s athletics director; and Christine K. Wilkinson, president of the Alumni Association. Crow spoke about the new ASU office in California in Santa Monica, including its Center for Social Cohesion, a joint project between Arizona State University and Zócalo Public Square in partnership with the New America Foundation that’s dedicated to studying the forces that shape our sense of social unity. On Dec. 6, the Sun Devil road show continued with A Sun Devil Gathering in Tucson, which was held at the El Conquistador Hotel. In addition to a report on the state of the university from Crow, attendees also heard from Jonathan Koppell, Dean of the College of Public Programs, who announced an expansion of the college in Tucson.

Sun Devil families spread ASU pride at recent events

Sun Devil Generations, the Alumni Association’s program for children of ASU alumni, held several fun, family-oriented events during the fall and winter, which helped ASU families connect with one another and taught the next generation about Sun Devil pride and traditions. Nearly 60 children and their families participated Sparky’s Sprint on Nov. 10. This was a new event on the Tempe campus, featuring a 1.25-mile fun run and a group warm-up with Sparky before the race.

More than 150 kids and parents came to Storytime with Sparky on Dec. 8. This event has become a tradition at the Alumni Association, and everyone enjoyed the holiday stories that were read aloud, the hot chocolate and cookies, and the special holiday photo opportunities with Sparky!

Additional Events

ASU’s newest alumni had several enjoyable events to attend as weather in the Valley of the Sun cooled off, including the Arizona State Young Alumni program’s Hike and Brunch at South Mountain on Nov. 17 and their visit to Las Noches de las Luminarias at the Desert Botanical Gardens on Dec. 9.

ASU played Navy in the Kraft Fight Hunger Bowl in San Francisco on Dec. 29, and the Alumni Association hosted a rousing Sparky’s Touchdown Tailgate beforehand. Visiting Sun Devils were also able to get in the spirit of the game at a pep rally for all bowl attendees held the day before, sponsored by the bowl event organizers.

Career concerns weren’t forgotten at the dawn of the new year, as the association’s Maroon & Gold Professionals group met at the San Tan Brewery in Chandler on Jan. 16.

Liz Massey is managing editor of ASU Magazine.
Austin

With the perfect spring weather in Austin, our chapter has a number of events that members won’t want to miss!

During March, we held our annual Spring Golf Tournament at Grey Rock Golf Club. Many who don’t golf joined us for the fabulous dinner as we finished off the day. Proceeds from the raffle during the Golf Tournament went to our scholarship fund!

In April, don’t forget to join us for our chapter’s Pat’s Run shadow run in Austin. You can run/walk 4.2 miles around Lady Bird Lake and enjoy a breakfast picnic in honor of Pat Tillman, the former Sun Devil football player and U.S. Army Ranger.

Later in April or in early May, the chapter will head to a local winery to partake in wine pairings, tempting treats and lively ASU Sun Devil camaraderie. Join us!

Check us out online at alumni.asu.edu/chapters/Austin, like us on Facebook at www.facebook.com/austinsundevils, or follow us on Twitter at twitter.com/austinsundevils!

Contact: Stacey Miller, austin.sundevils@gmail.com.

Dallas/Fort Worth

During the last half of 2012, we gathered for our Send-Off, enjoyed the ups and downs of the inaugural season of ASU football under Coach Todd Graham, participated in the TC Chillemi Memorial Ride and 5 Mile Walk and celebrated the lifetime achievements of Bucky Barrett at the Mercy Wine Bar with ASU’s College of Liberal Arts and Sciences.

If you live in the Dallas-Fort Worth area, join us on April 20 for our chapter’s Pat’s Run shadow run. This year the run will be on the Katy Trail in Dallas. This event is always fun and meaningful – hope to see you there.

For information on upcoming events, check us out on Facebook at www.facebook.com/dfwsundevils, or visit us at alumni.asu.edu/chapters/dallas.

Contact: Marco Canales, dfwasualumni@gmail.com.
Idaho

Idaho alums have been busy lately. Throughout the football season, Idaho Sun Devils gathered at local watch parties in the Boise area, Eastern Idaho and the Palouse region to connect with fellow alums and support our team.

The university was well represented at fall and spring college fairs in Boise, as alums Nick Sutton, Cherese McLain, Jenna King and Ally Ross served as ASU ambassadors. Thank you so much for your efforts!

On Jan. 20, ASU’s wrestling team traveled to Idaho for a meet at Boise State University. Sun Devil Hall of Fame legends Curly Culp and Mike Davies were there to support the team and meet local Sun Devils. It was a great event and everyone there had a great time.

We’re currently preparing for the April 20 Pat’s Run shadow run and a Cinco de Mayo event. To keep up with all the news, visit us online at alumni.asu.edu/chapters/new-york.

Contact: Jon Katz, ny_sundevils@thesundevils.com.

Orange County

In November, our group partnered with the Los Angeles chapter for a very fun-filled and successful USC tailgate party. During the tailgate, former ASU players Jeff van Raaphorst, Rudy Carpenter, and Darrell Hoover spoke to the crowd about their time at ASU, as well as what to watch for during the game. There were more than 400 in attendance at the tailgate and special guests included Dr. Christine K. Wilkinson, ASU President Michael M. Crow, and Vice President for Athletics Steve Patterson.

In December, we had our annual Newport Beach Christmas Parade viewing party and dinner. This is one of our most popular events and everyone was full of the holiday spirit!

Contact: Chris Bissonnette, chrisbissonnette@aol.com.

Greater Philadelphia

What a football season! Thanks to the launch of the Pac-12 Network, we were able to watch every Sun Devil game at our fabulous new pub, Tavern on Broad. We met new alums every week.

The Sun Devil Nation continues to grow here in Philly, thanks to events like our first New Member Meet & Greet in November. Hosted by ASU alumna Pam Regan at her Bluestone Fine Art Gallery, this event invited new Philly Sun Devils to come together and tour the galleries. Watch our Facebook page for our next new member event!

In philanthropic news, we joined with the Philly Pac-12 to donate new toys to Toys for Tots at our first PAC the Stockings event. We also volunteered at Philabundance, packing boxes of food for local families for ASU Cares this month. We would like to do more volunteer/service-oriented events throughout the year, so we hope you will come out to join us when they are announced!

Our next big event will be the 2013 Pat’s Run shadow run on April 20. Sign up to run or to volunteer; we will need volunteers on race day to help with sign-in and handing out water.

Contact: Fernando Torres, PhillySunDevils@gmail.com.

Twin Cities

Thank you to those Twin City Sun Devils who joined us for our first event of 2013, the cold-weather game of curling! We hope
The Greater Philadelphia chapter hosted a New Member Meet & Greet in November at ASU alumna Pam Regan’s Bluestone Fine Art Gallery. (right) Two card-carrying Alumni Association members celebrate journalistic achievements at the first annual Cronkite Day on the Downtown Phoenix campus.

you all had a great time!

We will be getting ready to “Run, Walk and Honor” the late Sun Devil Pat Tillman at our second annual Pat’s Run shadow run on April 20 at Lake Calhoun. This great event helps to honor the legacy of Tillman while raising awareness and support for our military. See you there!

Looking ahead to summer, our annual Lake Minnetonka Dinner Cruise will be held on June 22. Make sure you don’t “miss the boat” on this opportunity!

Stay connected with other Twin Cities alumni and keep up to date on all of our events by liking our Facebook page: www.facebook.com/twincitiessundevils.

Contact: Kate Lyons, twincitiessundevils@gmail.com.

Veterans

Our chapter is preparing to honor student veterans who are graduating this spring at a reception to be held on April 25 at Old Main. We will be presenting them with special red, white, and blue cords, which will be worn during ASU Graduation ceremonies.

We invite all Sun Devils who have served in the military to join our chapter. You can learn about our activities at: alumni.asu.edu/chapters/veterans.

Contact: David Lucier, davidflucier@gmail.com.

Washington, D.C./ National Capital

In April, the chapter will kick-off our 2013 softball season as part of the Capital Alumni Network league. Most games are held on the National Mall on weeknights and all alums are welcome!

If softball’s not your forte, we have other great events coming up, such as our Pat’s Run shadow run at East Potomac Park on April 20, and our Sun Devil Crabfeast, which will be held in May. For all the latest info on events throughout the year, make sure you visit our Facebook group at www.facebook.com/groups/dcsundevils.

Contact: Scott Gore, dcsundevils@gmail.com.

W. P. Carey School of Business

The W. P. Carey alumni chapter continues to gather Phoenix-area alums on a monthly basis for networking, learning, volunteering and fun. In addition, our chapter travels across the country to meet with business alums and fellow Sun Devils. Over the last few months, we have enjoyed teaming up with several geographic chapters to host alumni events, and we are looking forward to increasing our collaboration with other groups in the future!

Homecoming 2012 was an exciting time for our chapter as we welcomed many hundreds of alumni back to campus. This year the W. P. Carey School of Business Homecoming tent was buzzing with plenty of food, fun, and festivities including prizes, candy for trick-or-treaters, and an instant photo booth that captured the fun. We also were proud to induct three outstanding business alumni into our Hall of Fame: William E. Keitel ’78 M.B.A.; Joe Watters ’62 B.S.; and Diana Yazzie-Devin’99 M.B.A. These distinguished alumni were honored at our Hall of Fame celebration for their demonstrated leadership and achievements in their respective professions, in the community, and in the business school.

To become involved with the chapter, visit alumni.wpcarey.asu.edu.

Contact: Theresa Delaere, wpcareyalumni@asu.edu.

Walter Cronkite School of Journalism and Mass Communication

ASU journalism alumni spanning seven decades attended Cronkite Day, the Cronkite School’s first-ever large-scale alumni celebration, on Oct. 26. Nearly 750 people – including alumni, current and prospective students, faculty, staff and other guests – registered for the event, which was held at the Cronkite building on ASU’s Downtown Phoenix campus.

The day featured a series of showcase panels, with alumni discussing topics that included international journalism, coverage of the 2012 elections, public relations in the digital age, and the state of local TV news. Guests also had the opportunity to talk with current Cronkite students and see their work in state-of-the-art newsrooms, TV studios, digital classrooms and innovation laboratories.

The evening before the event, CNN International anchor and host Becky Anderson ’94 M.M.C. was inducted into the Cronkite Alumni Hall of Fame at a dinner honoring the school’s 45 Hall of Fame inductees.

Contact: Megan Calcote, Megan.Calcote@asu.edu.

There’s a chapter near you!

The ASU Alumni Association has more than 85 chapters, clubs and academic affiliate groups. To find a geographic chapter in your area, visit alumni.asu.edu/groups/geographic. To find a group associated with your academic area, visit alumni.asu.edu/groups/academic. And to find out about our special interest chapters, visit alumni.asu.edu/groups/special-interest.
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Even before his son was born, Lance Venable started thinking about the trip of a lifetime. Eleven years later, Lance and Michael embarked on their Excellent Baseball Adventure, traveling 11,232 miles in eight weeks, visiting every Major League ballpark in the country and seeing games at all but two of them.

“I found myself, almost on a daily basis, just pinching myself saying I can’t believe my son and I are doing this. We feel very fortunate and lucky,” Venable said.

An intellectual property attorney with ASU degrees in both electrical engineering and law, Venable says from the start of his college years sports provided a great balance to his studies and continues to be something his whole family enjoys.

“I was definitely working very hard on my electrical engineering degree, but I always found time to go see football, basketball and my share of baseball games,” he says. “That was my social experience, my getaway and my distraction from having to worry about studying so much. It was my reward and even to this day, I bleed maroon and gold. We’re a Sun Devil house and we go to as many games as we can.”

Lance and Michael sat right behind the San Diego Padres dugout for their first game, watched a near no-hitter in Atlanta and got to see the Seattle Mariners demolish the New York Yankees. And at stop after stop, they met people fascinated by their trip. Lance and Michael both say the high point of their trip came during a Boston Red Sox game on Father’s Day at Fenway Park.

Aside from visiting ballparks on their road trip, the duo toured the Baseball Hall of Fame, the Negro League Hall of Fame, spent Fourth of July in New Orleans, fed alligators in Florida and got to toss around a football at Cowboys Stadium in Dallas. The Venables documented their trip with pictures, videos and a blog: http://bigbaseballadventure.blogspot.com.

Although Venable says he’ll continue taking his son to ballgames and bonding with his family over sports, he doesn’t plan on taking another trip like their Excellent Baseball Adventure. At least not anytime soon.

“If I do (go again), it will be with Michael and his son,” he says.
2010s

David L. Blackledge ‘12 J.D. and Stephanie P. King ’08 B.S., ’12 J.D. joined the Phoenix law offices of Quarles & Brady as associates in the corporate services practice group.

Timothy Grunkemeyer ’12 B.S. is a doctoral candidate in Ohio State University’s biochemistry program.

♦ Tina Hakimi ’12 B.S.E., a participant in the Whittaker International Fellows and Scholars Program in Sydney, Australia, will spend approximately 18 months doing vision research and working on a master’s degree in vision science. Her research on eye care and vision technology will be conducted at the Holdin Vision Institute in Sydney and her graduate degree program will be through the University of New South Wales.

Hugh Martin ’12 M.F.A., a poet and a veteran of the Iraq War, received the Iowa Review’s inaugural Jeff Sharlet Memorial Award for Veterans that includes a $1,000 prize and publication of his work in the Spring 2013 issue. Martin also published a blog piece entitled “Learning a Language, and Relearning a Country” in the New York Times online edition. The blog post, published on Aug. 27, 2012, is a reflection on a language course that Martin took at ASU following his service in Iraq.

Lara M. Rhodes ’12 J.D. joined the Phoenix law offices of Quarles & Brady as an associate in the real estate practice group.

Patrick Vincent ’12 M.F.A., a printmaker, is artist in residence at the Lawrence Arts Center in Lawrence, Kan.

Devn D. Edmundson ’11 B.S. graduated from the Marine Aviation Supply Specialist Course in Meridian, Miss.

Heidi F. Hankerson ’11 B.A. graduated with honors from Fire Control Technician School at the Naval Training Center in Great Lakes, Ill.

Megan K. Scanlon ’11 J.D., formerly a judicial law clerk for Chief Justice Rebecca White Berch, joined Quarles & Brady in Phoenix as an associate in the health law practice.

♦ Latianna R. Sturrup ’11 B.S. completed U.S. Navy basic training at the Recruit Training Command in Great Lakes, Ill.

♦ Megan Vrooman ’11 B.S., a certified nonprofit professional, was promoted to program officer with Delta Dental of Arizona Foundation. She also serves on the board of directors for the Young Nonprofit Professionals Network.

♦ Matthew J. Applegate ’10 B.S., a pilot for Express Jet Airlines, received an Airman of the Year Award for his service in the Air National Guard. He lives in Houston and served as a flight instructor for a year after his graduation from ASU.

2000s

Billy Cioffi ’09 B.A. was nominated with Terry Hummer, a professor of English at ASU, for a Rocky Mountain Emmy for their video production “AmeriCamera.” The award is administered by the Rocky Mountain Southwest Chapter of the National Academy of Television Arts and Sciences.

Marisol Diaz ’09 J.D., director of admissions and student groups at ASU’s Sandra Day O’Connor College of Law and co-director of the Hispanic National Bar Association/ASU Mentoring Program in Phoenix, received one of the sixth annual 40 Hispanic Leaders Under 40 Awards for her commitment to diversity in education.

♦ Valerie L. Engelhard ’09 B.S. was selected for a new position with MidFirst Bank, director of university programs. She will serve as the primary point of contact with ASU and other university program officials and will pursue opportunities within university banking programs.

Kevin Forsberg ’09 B.S. is the lead author on an article entitled “The Shared Antibiotic Resistome of Soil Bacteria and Human Pathogens” that was featured in the August 2012 issue of Science.

♦ Valentine C. Castillo ’08 J.D., co-manager of The Law Offices of Castillo & Camuñez, PLLC, and a Judge Advocate in the Arizona National Guard, received one of the sixth annual 40 Hispanic Leaders Under 40 Awards.

Scott Cook ’08 B.A., a realtor, was named to the RE/MAX Executive and RE/MAX 100% clubs in recognition of his work as a top producer in the industry. He has also received nationally known merit recognitions for his knowledge, application and experience in his field.

Chris R. Southern ’08 B.A. completed U.S. Navy basic training at the Recruit Training Command in Great Lakes, Ill.

Tom Kleinlein ’08 M.Ed., ASU’s associate athletic director for football from 2005 to 2010 before taking over as deputy athletic director at Kent State University, has accepted a position as Georgia Southern University’s new athletic director.

Hayley Ivins ’07 B.S., ’08 M.S. was promoted to director of strategic initiatives with Earth Force. She will guide development and communication efforts for the organization.
Brandon Gerson ’07 B.S., co-founder and partner of digital marketing agency Mak & Ger in New York City, announced the addition of clients in the alternative energy and luxury fashion businesses.

Brecken Laizure ’07 B.A. graduated in August from Midwestern University with a doctoral degree in clinical psychology and planned to join a forensic private practice in Scottsdale, Ariz.

David Zimmerman ’07 B.A., ’10 M.P.A. joined the Department of Veteran Affairs in Washington, D.C., as a management and budget analyst.

Rebecca Borgesen ’06 B.A. was appointed marketing specialist with the Phoenix office of Grant Thornton LLP, the U.S. member firm of Grant Thornton International.

Craig Rosenstein ’06 J.D., a DUI defense lawyer with Rosenstein Law Group, was listed as a Super Lawyers Rising Star. The distinction recognizes lawyers with less than 10 years of legal experience who have demonstrated proficiency in their legal field and a high standard of legal professionalism.

Darin Shebesta ’06 B.S., was promoted to vice president/wealth advisor with Jackson Financial Advisors, Inc. in Scottsdale and was named president of the board of directors for Hugh O’Brian Youth Leadership Arizona. Joining him on that board are fellow Sun Devils Brad Kendrex ’05 B.A., ’07 M.P.A. and Rebecca Hudson ’07 B.S.


John D. Gibson ’05 B.S., ’10 M.B.A. was named area president for Wells Fargo in Southern Arizona.

Scott MacIntyre ’05 B.Mus., singer, songwriter and pianist, entertained kidney transplant patients at Mayo Clinic, performing his new song, “I Am Hope.” He also spoke about overcoming adversity and about his own kidney transplant in 2007.

Elizabeth (Cheney) Medicine Crow ’05 J.D. was promoted to President and CEO of the First Alaskans Institute in Anchorage, Alaska.

Kyle J. Penniman ’05 M.S.W., CEO of Stonewall Institute, and Jeremy D. Arp ’03 B.S.W., ’05 M.S.W., director of the Arizona chapter of the National Association of Social Workers, co-presented a three-hour cultural competency seminar at NASW’s annual conference on how to effectively serve clients who identify as lesbian, gay, bisexual, or transgender.

Lynda Ransdell

Prabidhi Adhikari ’04 B.S., a dentist, joined the practice of Artistic Dental at the Biltmore, a general family and cosmetic dental office.

Richard W. Beyer ’04 B.I.S., a financial representative with the B. Miller Network in Phoenix, was honored with membership in Northwestern Mutual’s 2012 Forum group. Only the top five percent of the company’s 6,000 financial representatives receive this annual honor.

Heather Boysel ’04 B.S.E., ’07 J.D., an attorney with Gammage & Burnham, PLC, was elected to the Valley Forward Regional Council of Arizona Forward.

Robert Fallows ’04 B.S., a neuropsychologist, has joined the staff of Samaritan Mental Health in Corvallis, Ore.

Alan Mackelprang ’04 B.S., assistant professor of operations management at Georgia Southern University, received the internationally competitive 2012 Elwood S. Buffa Doctoral Dissertation Award, which is co-sponsored by McGraw-Hill and the Decision Sciences Institute. The award is accompanied by a $1,500 prize and an invitation to showcase the research at a special session of the Decision Sciences Institute’s annual meeting in San Francisco, Calif. Mackelprang was named also to the Decision Science Institute’s Hall of Fame.

Josh Rathkamp ’04 M.F.A. had a poem selected as Poem of the Week by Narrative, an online literary newsletter. The poem, “What We Once Needed to Know,” appeared in part 1 of the Fall 2012 issue.

Jill Schiefelbein ’04 B.A., recent recipient of the Gilbert Chamber of Commerce’s Rookie of the Year award for her new business Impromptu Guru, announced the release of the company’s free video series, 60 Second Guru. The videos are designed to improve communication skills.

Dave Thurston ’04 B.I.S. opened The Dave Thurston Improvised Comedy Club in October at Glendale’s Renaissance Hotel in the Westgate Entertainment District. Thurston also works in promotions at radio station 93.3 KDKB-FM and teaches improv classes at the Tempe Arts Center.

Alyssa Fridgen ’03 B.S., formerly a studio assistant and consultant with Sarah Olson Studio in Brooklyn, N.Y., accepted the position of curator at the Alexandria Museum of Art in Alexandria, La.
Michael Brandt ’02 B.S.A. was named interim fire chief of the Northwest Fire District in the Tucson area. He served formerly as Northwest Fire’s assistant chief of operations and administered the operations/suppression, emergency medical services, special operations/wildland, training and communications divisions.

Clay Forsberg ’01 B.S.E. joined the physician team at Orange County Plastic Surgery, where he performs cosmetic and restorative procedures.

♦ Lisette Flores ’00 B.A., ’03 J.D., an attorney with Hernandez Global in Phoenix, was selected as one of 50 participants in the Valley Leadership Class 34.

Arizona Department of Education. She will oversee the areas of accountability and assessment, effectiveness of teachers and leaders, research and evaluation, and standards for students and schools.

Lynda Ransdell ’96 Ph.D., formerly professor of kinesiology at Boise State University, was appointed dean of the College of Education, Health and Human Development at Montana State University.

Rick Revoir ’96 M.B.A., assistant professor of Business and Technology at the College of St. Scholastica, was reappointed to the Duluth Seaway Port Authority Board of Commissioners for a six-year term by the Duluth City Council. He was first appointed two years ago to fill a vacancy on the board and has served as assistant treasurer since March 2012.

Ahniwake Rose ’96 B.S. was named executive director of the National Indian Education Association, where she will support tribal contributions to the development of Common Core state standards for K-12 education.

Viktorija Todorovska ’96 M.T.E.S.L., ’00 Ph.D. announced the release of her new DVD, “Sardinia: Food and Wine,” which is a collage of the autonomous Italian island, its people and its unique foods and wines.

David Damron ’95 M.Tax. accepted a position as partner with Ernst & Young LLP’s Business Tax Services in Phoenix. He will focus on supporting middle market public and privately held companies.

♦ Aaron Matos ’95 B.S., founder and CEO of Recruiting.com, and Theresa Maher ’03 B.A., vice president for creative and partner services, announced the expansion of the company, originally known as Jobing.com, to encompass cloud-based recruiting and job board solutions. With this expansion, Recruiting.com has emerged as the parent company. It is heavily staffed by ASU alumni, seeks to hire more ASU alumni, and is located at the ASU Skysong Scottsdale Innovation Center.

♦ Chad Ackerley ’93 B.S., formerly with Sun Devil Athletics, was promoted to associate broker for the industrial division at Lee & Associates Arizona, where he has been employed since September 2011.

♦ Shana Ellis ’92 B.S., ’97 M.P.A., past president and outgoing secretary of Kiwanis Club of Tempe, received the George F. Hixson Fellow Award for sustained service to the club.

Steve Trussell '92 B.A., '99 M.Ed., executive director of the Arizona Rock Products Association, is responsible for the promotion and preservation of sustainable rock and construction materials industry through engagement in the community relations, regulatory and political process. Active on varied community association boards, Trussell was formerly an instructor in the Mesa Public School District for 14 years.

♦ Kevin Kelly '91 B.A. accepted the position of leasing agent consultant for Green Ivy Real Estate and Property Management in Chicago. The company is owned and operated by ♦ Rusty Rantz '01 B.S.

John D. Lis '91 B.S. was appointed president of Velocity, RealPage’s advanced utility solutions management system for the rental housing industry.

Benjamin C. Flores '90 Ph.D., a professor of electrical and computer engineering, was appointed dean of the University of Texas at El Paso’s Graduate School.

Michelle Lee Flores '90 B.A., a partner with Fisher & Phillips LLP in Los Angeles, was selected by the editors of The Recorder as one of the 2012 Women Leaders in Law. She was honored as a champion networker who has shown creativity and effort in building and sustaining connections that create opportunities for her firm.

1980s

Daniel Bodenski '88 B.S.E. recently accepted the position of director of mission-critical services with CRB. He will be located in their Boston office.

♦ Tracy Scott '88 B.A., director of marketing and strategic communication and membership with the ASU Alumni Association, was elected to the board of directors for the Kiwanis Club of Tempe (KCOT) for a two-year term and was recognized for her service as KCOT’s adviser to the ASU Circle K Club.

Anton Nikodemus '87 B.S. was named president and chief operating officer of casino marketing, a new position for MGM Resorts International. His responsibilities include leadership for strategic planning for national and international casino marketing.

Michael J. Colburn '86 B.Mus., a colonel and director of the United States Marine Band, led the band in two concerts in his home state of Vermont as part of the group’s annual touring cycle. One concert was played in Colburn’s home town, St. Albans, and the other was played in Bellows Falls.

David L. Johnson '86 B.S. joined the Phoenix office of the law firm Quarles & Brady LLP as a partner in the real estate practice group.

Maria Harper-Marinick '84 M.Ed., '89 Ph.D., executive vice chancellor and provost of the Maricopa Community Colleges, received the Dr. Alfredo G. de los Santos, Jr. Award from the Victoria Foundation. The award recognizes an exemplary individual who provides service to the greater Latino community through teaching, program creation or expansion, and educational innovations that directly benefit Latinos. Harper-Marinick was appointed recently by U.S. Secretary of Education Arne Duncan to a four year term on the Advisory Committee on Student Financial Assistance.

♦ Sandra Pattee '83 B.S.N., '95 M.S. was promoted from the rank of captain to rear admiral with the U.S. Public Health Service and was named director for Intergovernmental Affairs for the Indian Health Service.

Curtis A. Dickman '81 B.S., a neurosurgeon at Barrow Neurological Institute at St. Joseph’s Hospital and Medical Center, is featured on the new medical website Barrow50.org, which was created as part of Barrow’s celebration of its 50th Anniversary. Dickman specializes in the treatment of spinal disorders and is one of 50 specialists and patients chosen for the website.

1970s

Brent McClanahan '78 B.S., former Sun Devil football standout and Minnesota Vikings running back, received the 2012 NFL Teacher of the Year Award in recognition of his impact on the educational and life skills of children. McClanahan teaches business and online education courses at South High School in Bakersfield, Calif. The award includes a $5,000 contribution from the NFL to South High School. ♦ Randall McDaniel '02 B.S., former Sun Devil football legend and Minnesota Vikings running back, received the 2012 NFL Teacher of the Year Award in recognition of his impact on the educational and life skills of children. McClanahan teaches business and online education courses at South High School in Bakersfield, Calif. The award includes a $5,000 contribution from the NFL to South High School. ♦ Randall McDaniel '02 B.S., former Sun Devil football legend and Minnesota Vikings running back, presented the award to McClanahan.

Karen Elsey '76 B.S. accepted a position as executive director of the Shell Knob Chamber of Commerce in Missouri.

Jacquelyn L. Power '76 B.A., principal of Blackwater Community School in Coolidge, Ariz., was named among the 2012 National Distinguished Principals by the National Association of Elementary School Principals. The award recognizes 60 principals who set high standards for instruction, student achievement, character, and climate for the students, families and staffs in their learning communities.


♦ Richard K. Mahrle '74 B.A., '77 J.D., a senior litigation partner with Gammage & Burnham law firm, was elected chairman of the Town of Paradise Valley Planning Commission. This will be Mahrel’s third one-year term since he joined the commission in 2001.
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alumni.asu.edu
Jon E. Pettibone ’73 B.S., ’76 J.D. was selected for inclusion in The Best Lawyers in America 2013 for excellence in the practice areas of administrative/regulatory law, employment law-management, and labor law-management.

Steve Reitan ’70 B.S. received the most overall votes for any Valley periodontist in the annual Phoenix Magazine Top Dentist survey. His practice group, AZ Perio, received the Top Dentist award for 2012.

1960s

Robert E. Reynolds ’63 B.A., priest associate at St. Thomas Episcopal Church in Terrace Park, Ohio, received the honorary Doctor of Divinity degree from Church Divinity School of the Pacific in recognition of his leadership and contributions as parish priest.

Law abiding
Allison Binney ‘00 J.D.

Allison Binney’s path to being an attorney ran through a bakery in Willits, Calif. During her walks to school, Binney routinely saw a man at the one bakery in town.

“He had a content look on his face,” Binney said. She was intrigued as to why the gentleman was so content. When a middle-school assignment called for Binney to interview a local person, she decided to talk to the man. She found out he was a lawyer.

“I grew up poor in a small town and at times, I would be hungry,” Binney said. The lawyer became a symbol for a better life for her. “I wanted to go to the bakery and get a coffee and blueberry muffin. Being a lawyer was embedded in my head from high school on.”

Binney received her law degree and an Indian Law Certificate from ASU in 2000. Today, she advises clients about American Indian law and policy as a partner at Akin Gump Strauss Hauer & Feld LLP’s Washington, D.C., office. From 2005 to 2011, she served as a general counsel, staff director and then chief counsel to the U.S. Senate Committee on Indian Affairs. That opportunity enabled Binney, a member of the Sherwood Valley Pomo Indians in California, to speak with tribes in many states and educate them about laws and regulations, such as The Indian Healthcare Improvement Act and the Tribal Law and Order Act, that impact them on a daily basis.

“The Senate (work) was a great experience. Being involved in the process, you really understand how important legislative history is. The land issues and jurisdiction issues were the most interesting,” she said.

ASU’s welcoming community and alumni network were key to Binney finding her career niche.

“I saw several ASU alumni were in Washington, D.C., doing great things,” Binney said. “The alumni provided great guidance. That helped me figure out what path to go down.”

By Brian Hudgins, a freelance writer based in Lafayette, La.
Olivia Anne Law was born to Carrie (Houghton) Law ’04 B.A. and Matthew Law ’03 B.S. on Sept. 23, 2012, in Mesa, Ariz.

Lena Mary Keller was born to Derek Keller ‘02 B.S. and Jennifer Keller on Aug. 30, 2012, in Kenosha, Wisc.

Sophia Irene Gonzalez was born to Angel Gonzalez ’04 B.A. and Lacey Gonzalez on June 16, 2012, in San Diego, Calif.

Leah Fang was welcomed to the family of Eddie Fang ’99 B.S. and Annie Fang ’97 B.S. on Aug. 14, 2012.

Emerson Rose Whirlow was born to ♦ Audrey (Mesta) Whirlow ’95 B.S. and Chris Whirlow on June 4, 2012, in Walnut Creek, Calif.

Mason Anthony Vance was welcomed into the family of Michelle Leyva Vance ’07 B.A. and Scott Vance ’09 B.S. on May 17, 2012, in Gilbert, Ariz.

Abigail Marie Smith was born to Steven L. Smith ’10 B.A. and Megan Smith on May 13, 2012.

Peter William Maniatis was born to ♦ William Maniatis ’91 B.S. and Jennifer Maniatis on April 19, 2012, in Palos Heights, Ill.

Hannah Buckley was born to Veronika (VandeGeer) Buckley ’01 M.S. and Gary Buckley on March 12, 2012.

Ava Mercedes Mateus was born to Giancarlo Mateus ’03 B.S. and Kristi (Beckstrom) Mateus ’09 M.A. on Dec. 28, 2011, in Phoenix. She joins her big sister Sophia Lillie Mateus, who was born on Dec. 8, 2009.

Victoria Deborah Wilson was born to ♦ Todd Wilson ’10 B.A. and ♦ Stacy (Gurian) Wilson ’98 B.A. on Nov. 9, 2011.
A bridge to the future

This year’s Golden Reunion class, who will gather to celebrate the 50th anniversary of their graduation during ASU’s Spring Commencement week, will have a number of remarkable memories to share. The class of 1963 experienced many milestones during their time on campus: the Sun Devil football team, led by Head Coach Frank Kush, finished the 1962 season with a 7-2-1 record. ASU’s mile relay team of Mike Barrick, Henry Carr, Ron Freeman and Ulis Williams set a blistering new world record of 3:04.5 minutes. The university awarded its first doctoral degrees in June 1963 – marking another step in the institution’s evolution into a world-class public university.

ASU was moving quickly to expand its infrastructure on the Tempe campus during this time. Construction began during 1963 on the pedestrian bridge that spans University Drive and marks the northern entrance to Palm Walk. The bridge was constructed to ease foot traffic from the residence halls on the north side of University Drive and to house the power lines connecting the north side of campus to the central campus buildings. The steps were designed by a chiropractor to place the least amount of pressure on the lower back and legs.

Golden Reunion, a two-day event sponsored by the ASU Alumni Association, is filled with enjoyable activities, including tours of ASU facilities, lectures, guest speakers, social events and participation in University Commencement. To learn more about Golden Reunion, which is scheduled for May 9 and 10, 2013, and how to participate, visit http://alumni.asu.edu/events/golden-reunion. A video highlight reel from last year’s reunion is online at https://vimeo.com/53629879.

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