

GRADUATION SPECIAL EDITION

ASU

ARIZONA STATE UNIVERSITY
VOLUME 21 NUMBER 3

Thrive

TIME CAPSULE

Culture, events to remember, memes and more from your time on campus

NEXT STEPS IN YOUR CAREER

Interview tips and strategies to help you land your dream job

A vibrant photograph of three graduates in maroon gowns and caps, celebrating with their arms raised and confetti falling around them. The background is a bright yellow with large, stylized letters. The overall mood is joyful and celebratory.

Congratulations, graduates!

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You made it! Next step: One bright future

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GRADUATION SPECIAL EDITION

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Take a bow for all your hard work — you deserve this moment in the spotlight.

Whether you started college in a dorm with other freshmen or fit in your classes around a full-time job and family obligations, you've put in years of effort to get where you are today. You've read, built, sculpted, engineered, calculated, presented, designed — and filled your brain with myriad ideas and inspiration. It has all been building you up to this milestone moment.

Enjoy the moment. Take it all in. Celebrate your accomplishments, and take the time to genuinely thank the people who helped you get to this point. Be confident you have the skills and know-how to scale the mountains that lie in your future.

Arizona State University wants to celebrate your achievement — and help you succeed in the next step of your journey.

The university offers a number of resources, from networking to professional development to public events. The learning doesn't stop just because the band is striking up "Pomp and Circumstance"; ASU wants to be a partner in your lifelong enrichment.

This publication is one way to stay connected to your alma mater — in its pages you'll learn about the discoveries, entrepreneurship and news to improve your life coming out of the Sun Devil community, and as an alum you'll receive issues throughout the year. The chapters of the ASU Alumni Association offer many more opportunities to plug in.

Life might take some twists and turns, but you have the tools to persevere and the support of ASU. Your education has prepared you to thrive in a rapidly changing world.

We can't wait to see what you accomplish.

— ASU Thrive team



On the cover

From left: Zouheir Ridouani (biochemistry), Soundharya Muthukrishnan (graphic information technology) and Ashley Foster (writing, rhetorics and literacies) are part of ASU's Class of 2018.

Photo by Brandon Sullivan

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This radio spectrometer in Western Australia helped ASU scientists detect indications of the earliest stars in the universe.

Go

Calendar of events

Plan your summer and fall with our event highlights on ASU campuses. 4

Update: The latest news briefs, from cancer-fighting nanorobots to a fresh look at Frankenstein. 6

Explore

Going beneath the surface

Digital cadavers bring a deeper understanding of anatomy. 12

Search for the first stars in the universe

ASU-led team finds surprising answers. 16



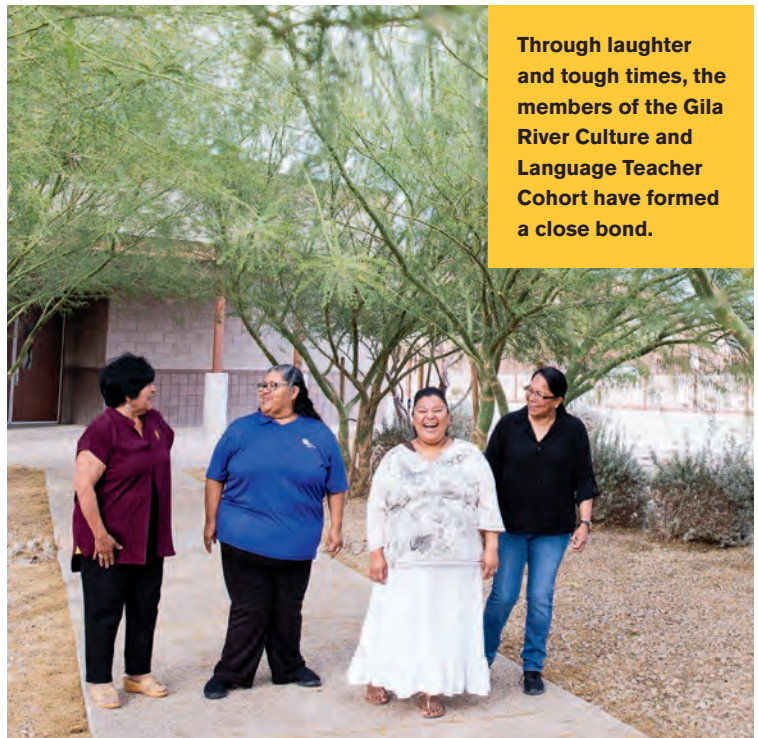
Commence

Time capsule for the Class of 2018

Top news and trends of the past four years. 20

**‘Soul sisters’:
It’s never too late
to get a degree**

Gila River cohort support one another and their community as they earn their master’s degrees. 24



Through laughter and tough times, the members of the Gila River Culture and Language Teacher Cohort have formed a close bond.

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instagram.com/asuyoungalumni



USA Today editor-in-chief and ASU alumna Nicole Carroll.



Buzz

Hive minds: ASU bee scientists apply their sweet smarts with the aim to improve life for the insects — and for humans, too. 30

Scholars around the world: A map of where some of ASU's brightest scholars are studying. 34

New media

Cronkite School alumna Nicole Carroll takes her compassion, curiosity and a nose for news to her role as USA Today's new editor-in-chief. 36

Play

At bat: Join the action as the Sun Devil baseball and softball teams finish their seasons. 44

500 wins ... and counting

A closer look at legendary ASU women's tennis head coach Sheila McInerney. 46

Update: The latest from Sun Devil Athletics. 47

Connect

Chapters update: Ways to engage. 50

Class notes 51

Interview tips 53

Grads' advice 55

Founders' Day: The honorees. 60

4 inspiring reads: A dean's list. 63

The new ASU license plate 64

JAROD OPPERMAN/ASU; PETER VANDER STOEP



Women's tennis head coach Sheila McInerney and her team.



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May

Online career fair for jobs in China

Whether you are just beginning your job search or seeking advancement in your career, this event will provide an opportunity to connect with a range of China-based employers.

May 1, all day, online.

asu.edu/career

Free

Virtual career fair

Statewide career fair for students and alumni in all majors and all industries in Arizona.

Thursday, May 17, 1–3 p.m., online.

asu.edu/career

Free

Saber Acomodar

This landmark arts and crafts movement exhibition tells for the first time the story of art from the state of Jalisco in Mexico, showcasing collaborations between artists and artisans (potters, carpenters, blacksmiths, jewelers, sign painters and printmakers) who work and live in western Mexico. The result of these intersections is the integration of contemporary ideas, precolonial techniques and methods introduced by the Spanish. Recently, artists have employed traditional materials and practices to produce complex conceptual objects and installations. Comprised of work by 25 artists, the exhibition explores the integration of contemporary ideas with traditional techniques.

Exhibition runs through June 30, ASU Art Museum.

asuartmuseum.asu.edu

Free Family



June

School of Rock

Based on the hit film, this hilarious new musical follows Dewey Finn, a wannabe rock star-turned-substitute teacher who transforms a class of straight-A students into grade-A rockers. It features 14 new songs from Andrew Lloyd Webber, all the original songs from the movie and musical theater's first-ever live kids rock band!

June 19–24, ASU Gammage.

asugammage.com

Ticketed Family

Data in the Desert Workshop

The Data in the Desert workshop provides a unique opportunity for scholars in fields such as psychology, sociology, biology, business, and the developmental and social sciences. From the intricacies and complexities of interpersonal relationship data, to an understanding of network data, the workshop is for anyone with an interest in understanding the cause and consequence of social interactions and social group dynamics.

June 18–22, 8 a.m.–5 p.m.

Ticketed

Summer programs

Programs are available for students grades K–12 in a variety of topics including engineering, leadership, math and the arts. Programs offered on all four ASU campuses and range from day camps to residential arrangements.

Throughout summer

eoss.asu.edu/summer/enrichment/

Ticketed Family

Seven hand-painted ceramic light fixtures crafted by Jorge Pardo in 2014 are on display at Saber Acomodar.





History of the Future Film Series

This summer, FilmBar and Arizona State University's Center for Science and the Imagination are going back to the future. This second installment of The History of the Future film series rounds up another set of delightfully schlocky, thought-provoking films from decades past. With introductions and comments from scholars and experts, we'll examine stories about the future from the 1970s, 1980s and 1990s and think about how accurate those visions turned out to be.

All films will be shown at FilmBar in Phoenix.

"Logan's Run" (1976) portrays an idyllic future with one major drawback: life must end at the age of 30.

Thursday, June 21, 7-9 p.m.

"They Live" (1988) envisions a society dominated by propaganda.

Thursday, July 19, 7:30-9:30 p.m.

"Demolition Man" (1993) examines policing in a non-violent future society.

Thursday, Aug. 16, 7-9 p.m.

Ticketed



Must See Mondays

In the Cronkite School's "Must See Mondays" speaker series, students, faculty and members of the community fill the First Amendment Forum to hear leading journalists and communicators speak on current events and the latest industry trends. The series has featured Pulitzer Prize-winning journalists, Emmy-winning broadcasters and leaders and innovators in the industry.

Mondays in fall and spring semesters. See event site for specifics.

Cronkite School, Downtown Phoenix campus.

asuevents.asu.edu

Free

Sept

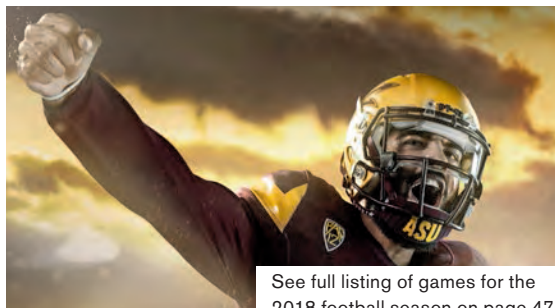


Earth and Space Exploration Day

Hosted by the ASU School of Earth and Space Exploration, this community event offers special science-related activities for students age 5 and up, families, educators and anyone interested in exploring Earth and space. Delve into ISTB 4's Gallery of Scientific Exploration with a variety of interactive exhibits, and the Marston Exploration Theater with 3-D astronomy shows. Got a rock you think might be a meteorite? Experts from the Center for Meteorite Studies will examine your specimens to determine if they are out of this world. Free teacher resources available, as well as contacts for outreach with ASU scientists and students.

Oct. 13,* 10 a.m.-4 p.m., Interdisciplinary Science and Technology Building IV, Tempe campus.

Free Family



See full listing of games for the 2018 football season on page 47.

Homecoming week

A time-honored tradition, ASU Homecoming brings together students, parents and alumni to celebrate their Sun Devil spirit. The weeklong festivities highlight feverish Sun Devil spirit through athletic events, fun on- and off-campus activities, and entertainment. The 2018 Homecoming schedule has something for everyone, so come on out and have a great time!

Oct. 28-Nov. 3

homecoming.asu.edu

Free Ticketed

Date harvest

Campus Harvest is calling all date lovers to the three-acre Poly campus grove. Similar to a roadside fruit stand, customers can fill a bag or box with their desired quantity and varieties.

Saturdays in Oct., with a preview day in Sept.* Polytechnic campus.

Family



Check in at events to earn Pitchforks and rewards!

Download the Sun Devil Rewards app today for ASU event listings, news, games and more. sundevilrewards.asu.edu.



See asuevents.asu.edu for additional ASU events.

* Date is tentative. Please check asuevents.asu.edu to confirm specifics closer to the event.



Certificate will examine veteran experience

While most people have great respect for servicemen and women, the current divide between military and civilian cultures is deep and often results in misunderstandings, say ASU educators Mark von Hagen and Nancy Dallett. The pair are the designers of “Veterans, Society and Service,” the university’s first undergraduate program dedicated solely to the study of veterans, military culture and how they relate to society.



Dallett says the certificate program — expected to start this fall — will combine the disciplines of history, literature, law, ethics, politics, psychology, sociology and the arts, preparing students with a transferable set of skills for careers in veterans’ affairs, public policy, politics, nonprofits, criminal justice, education, health care, business and even journalism.



Sinking ground adds to coastal flooding risk

New ASU-led research using radar imaging to measure elevations has uncovered an important gap in planning for sea level rise in the San Francisco Bay Area: Sections of the shoreline are sinking at rates of nearly half an inch (12.5 millimeters) a year. But knowledge of where the ground in the Bay Area is sinking, and by how much, is not included in the official planning maps that authorities use to assess the local flooding risk from rising sea levels.

The researchers, led by Manoochehr Shirzaei — assistant professor in the School of Earth and Space Exploration and a member of NASA’s Sea Level Change planning team — note that the FEMA maps of the Bay Area need to be updated with the measurements of land subsidence, or sinking ground (often areas of former landfill that are compacting), as well as recent projections of rising sea level so that local authorities can make better flood plans.

Tiny homes make big difference to veterans

On an abandoned dirt lot at 13th Avenue and Buckeye Road in Phoenix, volunteers gather regularly to hang drywall, install insulation or do whatever needs to be done to complete three “tiny” homes taking shape there.

While the typical new American home is around 2,600 square feet, so-called tiny homes are between 200–600 square feet. Many buyers embrace them as a way to reduce housing costs or their carbon footprint.

Mackenzie McGuffie, a volunteer at the site and a senior in ASU’s School of Sustainability, loves this tiny home project for a different reason: It combines her passion for sustainable development with the opportunity to alleviate homelessness among the Valley’s veterans.



The homes are a project of Singleton Community Services, a Phoenix nonprofit that sees its tiny-home project — Build Us H.O.P.E. — as a solution to the lack of affordable, durable and scalable housing available to veterans.

McGuffie and a team of ASU students work to ensure that each home adheres to best-practices in sustainable development. The team is part of the ASU chapter of Greenlight Solutions, which pairs students with nonprofits or businesses so they can collaborate on sustainable solutions to community challenges and gain relevant work experience.

Members spent almost a year evaluating construction materials, “from doors to walls to furniture to appliances,” McGuffie says. They next created a rubric of ethically sourced and affordable material, and established a pricing sheet for future builds.

SCS owns 98 acres in the Valley and plans to build 1,200 tiny homes for veterans, says its president, Elizabeth Singleton.

ASU on Princeton Review’s list of ‘Best Bang for Your Tuition Buck’

ASU has been named to the 2018 Princeton Review list of “Colleges That Pay You Back: The 200 Schools That Give You the Best Bang for Your Tuition Buck.” The Princeton Review, which rates colleges and universities on a host of factors, cited ASU’s “stellar academics, affordable cost and strong career prospects for graduates.” Other universities on the list include Stanford, Yale, MIT, UCLA, and Texas A&M; this year, ASU is the only school in Arizona to make the list.

Record donations

Sun Devil Giving Day raised a record 4,325 donations to support students, faculty and researchers with the resources they need to succeed.

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Keep up with the headlines at ASU by subscribing to the ASU Now newsletter at asunow.asu.edu/subscribe.



Man’s best friend in fight vs. cancer

The Open Philanthropy Project has awarded a multiyear, \$6.4 million grant to Stephen Albert Johnston at ASU to support the largest interventional canine clinical trial ever conducted. The trial will assess the effectiveness of a unique vaccine in preventing any type of cancer in dogs, in hope that success will lead to human vaccine trials.

Cancer is the leading cause of death in pet dogs, and their cancers are very similar to those suffered by their human counterparts. The canine immune system responds to tumors and vaccines similarly to that of humans, but the course of tumor development in dogs is much shorter. Johnston — who directs the ASU Biodesign Center for Innovations in Medicine and is a professor in the School of Life Sciences — thinks researchers can evaluate the effectiveness of the vaccine in five years or less, rather than the 15–20 years it would take in a human trial.

The vaccine being tested in dogs will have a comparable composition to the one tested in people. The trial will enroll at least 800 owners’ pets.

Tumor-destroying nanorobots to the rescue

In a major advancement in nanomedicine, ASU scientists, in collaboration with researchers from the National Center for Nanoscience and Technology at the Chinese Academy of Sciences, have successfully programmed nanorobots to shrink tumors by cutting off their blood supply.

The successful demonstration of the technology was the first-of-its-kind study in mammals utilizing breast-cancer, melanoma, ovarian and lung-cancer mouse models. To perform their study, the scientists took advantage of a well-known mouse tumor model, where human cancer cells are injected into a mouse to induce aggressive tumor growth.

The treatment blocked tumor blood supply and generated tumor-tissue damage within 24 hours, while having no effect on healthy tissues. After attacking tumors, most of the nanorobots were cleared and degraded from the body after 24 hours.

By two days, there was evidence of advanced thrombosis, and at three days, thrombi in all tumor vessels were observed.

“This technology is a strategy that can be used for many types of cancer.”

— Hao Yan, director of the ASU Biodesign Institute's Center for Molecular Design and Biomimetics; Milton Glick Professor in the School of Molecular Sciences.

Thrombin can block tumor blood flow by clotting the blood within the vessels that feed tumor growth, causing a sort of tumor mini heart attack and leading to tumor tissue death.

Each nanorobot is made from a flat, rectangular DNA origami sheet, 90 nanometers by 60 nanometers in size.

A famous CEO may not be good for business

Rock star CEOs can bring a lot of attention to their companies, but fame can have a downside. An ASU faculty member's research found that CEOs can be forced into one of four "archetypes" (creator, transformer, rebel or savior), and that can alter their behavior — and hurt decision-making skills. "You have to live up to that greatness and when you don't, it leads to exaggerating behaviors," says Jonathan Bundy, an assistant professor in the W. P. Carey School of Business.

The research refers to these archetypes as "shackles" because, after attaining praise, the company chiefs often not only persist in the behaviors of each type but often will double down on them — sometimes unwisely. With their confidence fueled by fame, the CEOs base more decisions on intuition rather than careful judgment, exacerbated by a lack of external control.



Fewer menus to list calories than previously thought

New Food and Drug Administration guidelines requiring restaurants with 20 or more locations nationwide to post calorie information on menus will go into effect this month. However, research from ASU nutrition Professor Punam Ohri-Vachaspati and ASU alumna Jessie Gruner found that exposure to the practice could be woefully limited, with lower-income populations reaping the least benefit.

The study found that less than half of the number of restaurants projected by the FDA and the National Restaurant Association to be affected will actually be required to adopt menu-labeling — 17.6 percent of restaurants, compared to the projection of 36–40 percent.

A promising step in the fight against Alzheimer's

A team of researchers at ASU has examined the effects of Alzheimer's disease to rob brain cells of their primary energy source — decades before symptoms first appear. And in a promising finding, the researchers headed by lead author Diego Mastroeni of ASU's Bidesign Institute have shown for the first time that human neuronal cells can be protected when they are pretreated with a custom-designed experimental compound.

The research reveals that a highly toxic form of a protein implicated in Alzheimer's — a version of the beta amyloid protein known as oligomeric abeta (OAB) — disrupts the normal functioning of mitochondria, structures that are the powerhouses of every cell. The compound, designed by Bidesign Institute collaborator Sidney Hecht, acted to protect cells from the degradation caused by OAB to normal mitochondrial function, offering renewed hope for effective treatment.



Mirabella senior living project breaks ground

ASU has broken ground on a complex that will advance a new and innovative concept in intergenerational living and lifelong learning. Mirabella at ASU is a 20-story senior living facility at Mill Avenue and University Drive on the university's Tempe campus.

The building, scheduled to be completed in 2020, will include 252 independent-living apartments and 52 health care units, as well as an indoor pool, theater, art museum, spa, dog park and four restaurants. The project will link the ASU community to Mirabella residents, who will be able to take classes, have access to the library and be near cultural and sports events.

ASU President Michael M. Crow called it "the world's coolest dorm" at the groundbreaking ceremony and said, "There's no reason everyone can't be a college student and engaged in what this community has to offer for the entirety of their lives."

Learn more and get a sneak peek inside a model unit at asunow.asu.edu/mirabella.

It's alive! Frankenstein game teaches science, ethics

The 200th anniversary of Mary Shelley's "Frankenstein" has ushered in a new creation: Frankenstein200, an interactive, transmedia experience for children that retells the novel through an exploration of science. The project, developed by a team at ASU, uses videos, webpages, puzzles and games to teach children about the intersection of science and ethics. Learn more at frankenstein200.org.

Outreach

Bringing light to Puerto Rico

Alumni, faculty and students pitch in to help

In the U.S., a mere one-hour power outage is disruption enough and “a six-hour blackout is a huge event,” says Rick Hudson, a maintenance engineering supervisor for SRP and ASU engineering alum. But Puerto Rico experienced the longest blackout in American history, with hundreds of thousands living in the dark for months after a hurricane trampled the territory’s power grid in September.

“It’s hard for me to say ‘no’ when people are in this type of situation,” says Hudson, one of an eight-member volunteer crew sent by Salt River Project in December to help restore power to the storm-battered island.

For 30 days, Hudson and crew worked 13- to 14-hour days for seven days a week to help guide efforts to rebuild the power grid on Puerto Rico’s northeast coast.

He calls it a life-changing event. The degree he earned at ASU gave him the know-how, and his involvement with the ASU Alumni Association provided the inspiration, having seen students create water facilities in developing countries.

Hudson’s efforts were just one way in which the ASU community pitched in and raised awareness for



Three months after Hurracan Maria pummeled Puerto Rico, the ground was still strewn with powerlines.



ASU volunteers collected school supplies, which were then inventoried, sorted, packed and shipped to elementary schools.



SRP volunteers helped coordinate some of the 3,500 utility workers striving to restore power in December.

Puerto Rico’s plight. After going nine days without contact with family in Puerto Rico after Hurricane Maria, College of Integrative Sciences and Arts (CISA) Assistant Professor Manú Avilés-Santiago channeled his nervous energy into opportunity — by teaching the

first part of his Intro to Human Communication class in the dark in solidarity for those without power.

It turned into “a fascinating discussion in which we talked about darkness as a metaphor for the lack of knowledge about Puerto Rico, and also as a way to experience the literal darkness and uncertain times that our university peers are facing in Puerto Rico,” says Avilés-Santiago, who learned that same day that his parents were safe.

The university also invited 11 Puerto Rico students (with a 12th arriving in the fall) to continue their studies at ASU. Southwest Airlines provided travel vouchers, and ASU representatives welcomed the group in January. Though obviously dealing with the stress from what they went through, many of the students are thriving with the support of ASU, says Irma Arboleda, School of Transborder Studies assistant director.

She and Associate Professor Maria Cruz-Torres were keys in a school-supply drive for hard-hit elementary schools in Puerto Rico. Faculty, staff and students gathered and shipped 1,500 items, the result of an impassioned effort among units including the School of Transborder Studies, Mary Lou Fulton Teachers College and CISA.

— *Lori K. Baker, Emma Greguska and Maureen Roen contributed to this story.*

v: to investigate or study; to travel new territory

Explore

UPON REFLECTION

'What if?'

is one of the most powerful questions we can ask, whether it's looking at the cosmos in a new way or reflecting on a fresh approach to teaching a classic subject. Life is made richer by looking deeper and nurturing our curiosity — and becoming a lifelong learner is made easier with ASU's public events, summer camps and online class offerings. It's worth a second look.

EXPLORE
EXPLORE

In addition to the iconic "EXPLORE" sign reflected on Lattie F. Coor Hall, text fragments and letterforms etched on the glass façade are one of the largest public art projects on ASU's Tempe campus.

Beneath the surface

Digital cadavers bring students a deeper understanding of anatomy and physiology. **12**

Finding the first stars

ASU-led team uses radio astronomy to answer questions that astrophysicists have long pondered. **16**



“We all learn in different ways, and being able to rotate the body from any angle to see all perspectives, students discover for themselves.”

— Jeff Kingsbury, ASU lecturer

Students Evelyn Gutierrez, Ennery Bravo, Cindy Szeto and Taylor Howe test their knowledge of skull bones on the Anatomage Table in their human anatomy/physiology I lab at ASU's Downtown Phoenix campus.



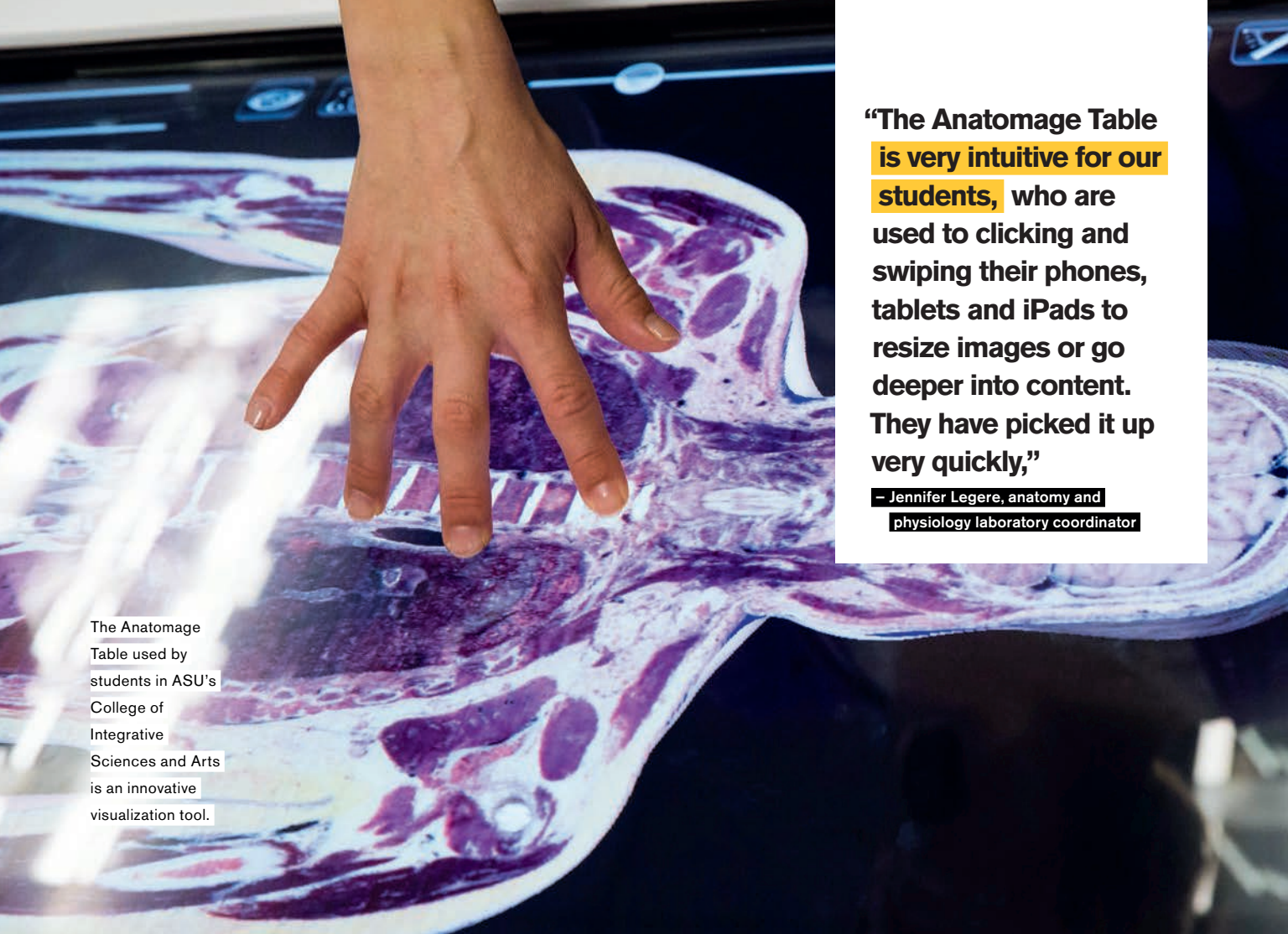
Digital cadavers bringing students a deeper understanding of anatomy and physiology

Going beneath the surface

Story by MAUREEN ROEN
Photos by DEANNA DENT

The challenge of learning human anatomy and physiology can be daunting for many undergraduates: identifying all 206 bones and their every bump, notch and groove; the 320 muscle pairs; the structures and associated tissues of all of the body's other organ systems — and articulating how all those parts and systems miraculously work together.

To help students master this material, ASU's College of Integrative Sciences and Arts is integrating an innovative visualization tool, the Anatomage Table, into the anatomy and physiology



“The Anatomage Table is very intuitive for our students, who are used to clicking and swiping their phones, tablets and iPads to resize images or go deeper into content. They have picked it up very quickly,”

– Jennifer Legere, anatomy and physiology laboratory coordinator

The Anatomage Table used by students in ASU’s College of Integrative Sciences and Arts is an innovative visualization tool.

learning experience at the university’s Downtown Phoenix campus.

Adopted by many of the world’s leading medical schools, the table is one of only three in Arizona and is the only one to be used in an undergraduate program (the others are used in a graduate program at Northern Arizona University and at Mayo Clinic School of Medicine).

“About 2,000 undergraduate students will engage with the technology in our beginning and advanced anatomy and physiology courses over the course of a year,” says principal lecturer Richard Bauer, who has headed up the faculty of the Science, Mathematics and Social Science

program in the college since the university opened the downtown campus in 2006.

Bauer’s faculty serves students in all of the downtown campus colleges, providing foundational and general-studies courses needed by majors in the College of Nursing and Health Innovation, the College of Health Solutions, the Walter Cronkite School of Journalism and Mass Communication, the College of Public Service and Community Solutions, and the College of Integrative Sciences and Arts.

“The majority of the students who take these courses want to enter health-related professions, and this tool will help to more

fully prepare them, nicely complementing the anatomical models, texts, plastinates and cadavers,” Bauer says.

Like a textbook come to life

As the Anatomage technology has begun to be integrated into lab work, the faculty, teaching staff and students are excited about the table’s features and capabilities.

“The clarity of the images on the table screen is super, like that of a textbook but completely 3-D,” says senior Jessica Lehman, a nursing major in her second year working as an instructional assistant in the

200-level anatomy and physiology lab sections. "As a user you have full control of where you move. You can click through each layer of the body, removing one system at a time, or look at an entire system at once. You can choose to search by organ, by body system or by name of a structure."

Having this additional touchpoint helps students understand context and establish the content in long-term memory, notes lecturer Jeff Kingsbury.

"We all learn in different ways," Kingsbury says. "And being able to rotate the body from any angle to see all perspectives, students discover for themselves, and can better visualize, the connectedness of body systems and how the function of a structure dictates the anatomical form."

For Kingsbury's advanced dissection students, the table provides some rehearsal context and a great in-between medium between plastinates and cadavers.

"The very first day that we were going to be making cuts, we opened up a body on the Anatomage Table and we were able to practice the envelope-shaped cuts we'd be making to open up the rib cage," says sophomore Kacey Cavanagh, a nursing major. "We were all very nervous about cutting into an actual body, so that was very helpful to see."

The table also helps those unable to do the dissections.

"Some students, because of religious or cultural reasons or past trauma, can't work with cadavers," notes Bauer, "and so the table also accommodates their learning.

"Physical cadavers have their limits," he continues. "You can only slice into a body once.

From learning to teaching to landing a paid internship

Working with the Anatomage technology and being impressed with the company, ASU junior Kelly Schock says, "I emailed the general info address, explained my background and asked if they ever hired interns. They put me in touch with someone, I shared with them my experience and why I'd be interested in working with the company, and they offered me a paid internship. I'll be working there all summer in Silicon Valley.

"They want me to help develop curriculum and the questions that go along with the table's supporting material. I'll be creating content and preparing data for upcoming software releases, reviewing anatomy accuracy and assisting in corrections and, of course, helping anyone out as needed."

Students can slice, if you will, into the digital cadavers a gazillion times. Cadavers can be very messy, and they deteriorate over time. Because of preservation and cleaning techniques, it can actually be easier to see some anatomical features in 3-D in the digital environment."

Junior Kelly Schock has seen this phenomenon firsthand as an instructional assistant for the BIO 494 advanced practicum in human dissection.

Part of her role involves guiding dissection students "to make

sure the dissections for BIO 201 and 202 students to observe are meticulously presented and labeled, so that beginning students have access to a near-perfect specimen when viewing a structure for the very first time," she says.

More than anything, though, Schock says she has seen how this technology has sparked student interest.

"Linking science and technology this way makes the material exciting for students," she says.

An operating table-sized tablet

The Anatomage technology first came to the attention of Jennifer Legere, ASU anatomy and physiology laboratory coordinator, a few years ago, when she was researching potential teaching tools that would give students more hands-on time.

"The Anatomage Table is very intuitive for our students, who are used to clicking and swiping their phones, tablets and iPads to resize images or go deeper into content. They have picked it up very quickly," she says.

"Manipulating the technology themselves, they're immediately engrossed in learning, and it's impossible to be detached."

Adeptness in learning the new skills is unlocking new directions for these students' careers.

"I came into college thinking I wanted to be a doctor, considered switching to business, but then took anatomy; this is where it's at!" says Schock. "I love anatomy and I like people and social interaction, which is why I'm really excited about doing an Anatomage internship. It's a perfect combination of the three." ■

5

details to know about research into the first stars

1 Quiet, please

Australian law limits the use of radio transmitters within 161.5 miles of the site, reducing the interference that could drown out sensitive observations.

2 Spectrometer specs

Radio waves are collected by an antenna consisting of two rectangular metal panels mounted horizontally on fiberglass legs above a metal mesh.

3 Timeline of universe

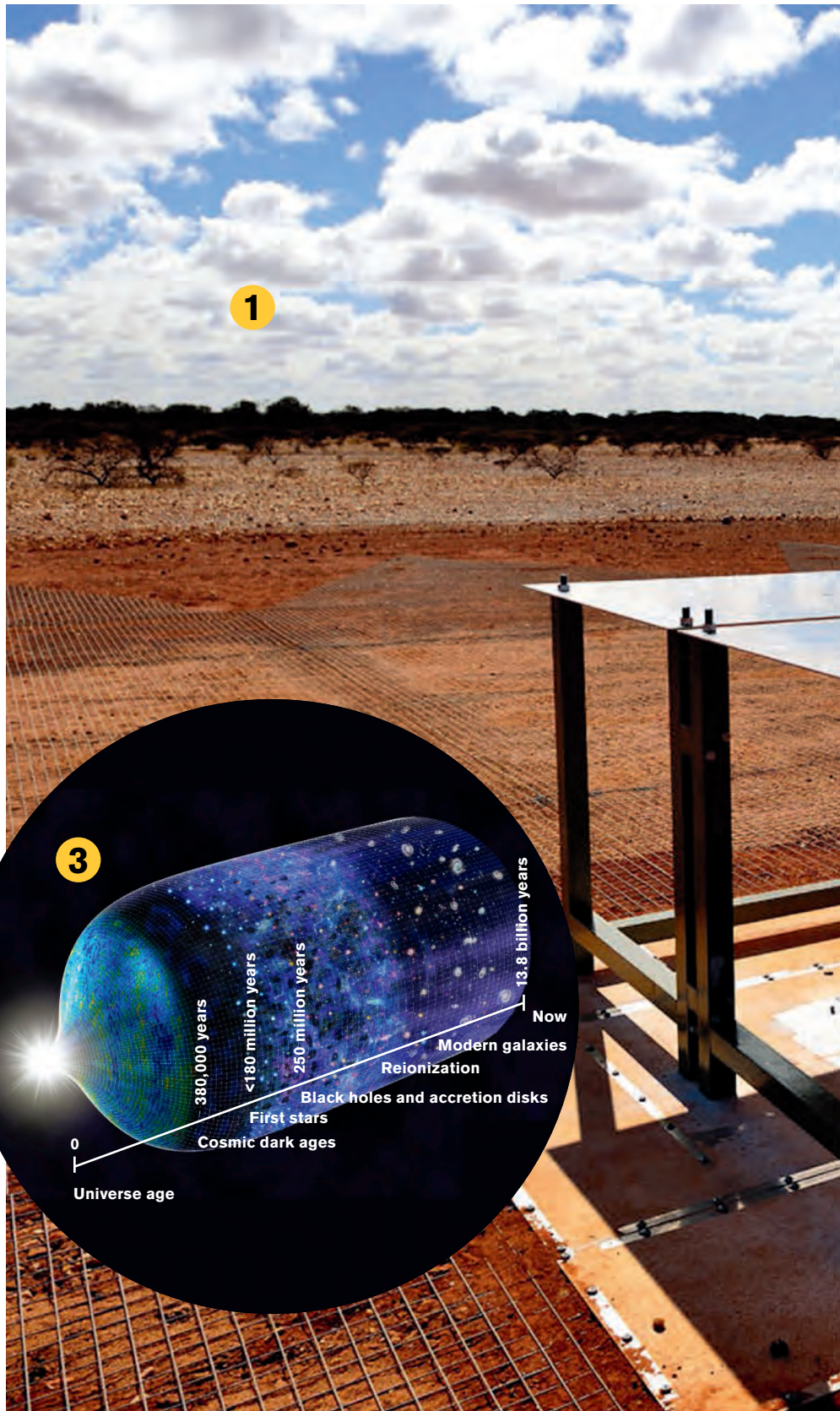
This updated timeline reflects the recent discovery that the first stars emerged some 180 million years after the Big Bang.

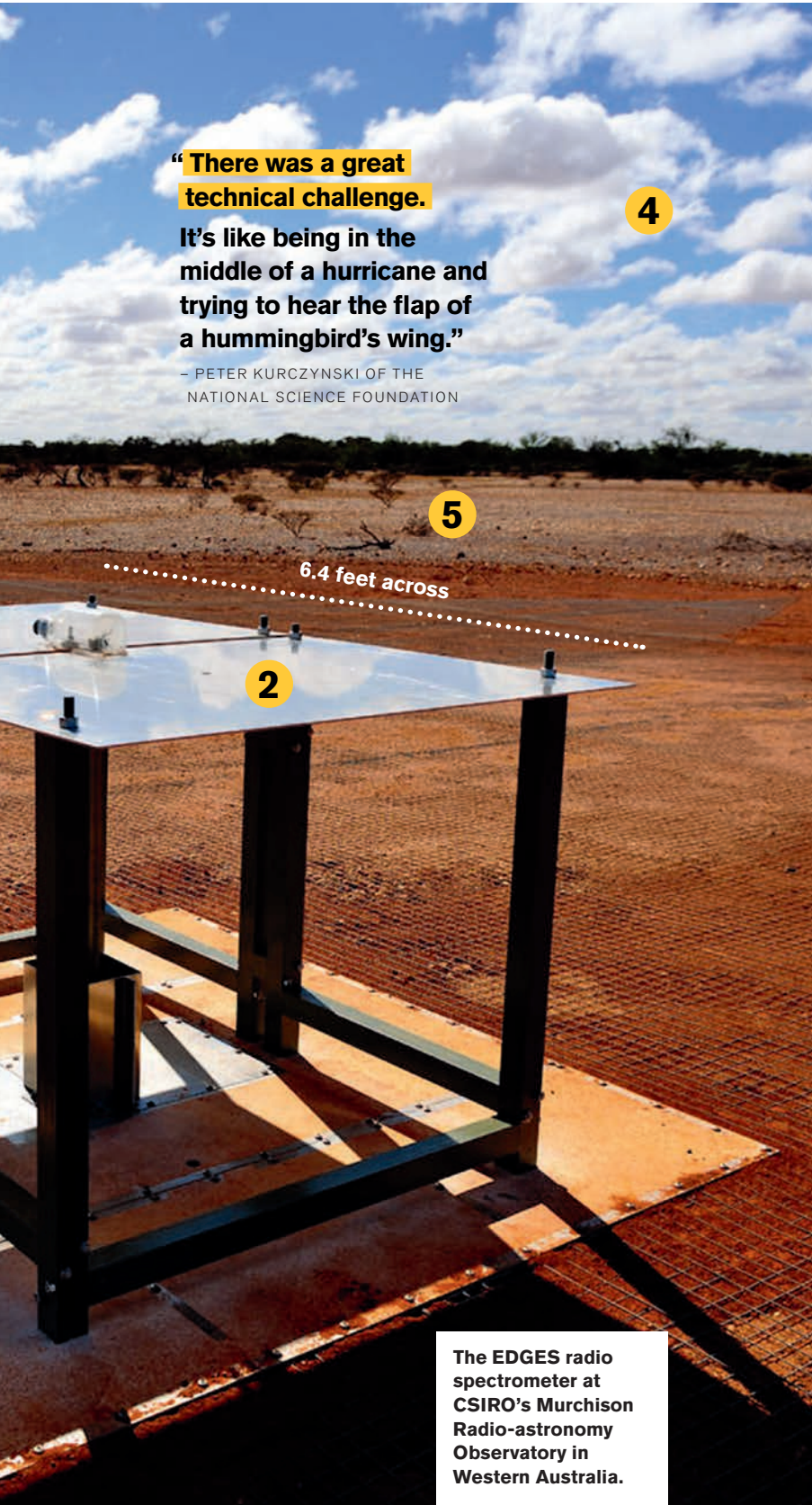
4 Cold reception

The study also revealed gas in the universe was probably much colder than expected — less than half the expected temperature.

5 Ancient ownership

The MRO is managed by CSIRO, Australia's national science agency, which acknowledges the Wajarri Yamatji people as the traditional owners of the observatory site.





“There was a great technical challenge.

It’s like being in the middle of a hurricane and trying to hear the flap of a hummingbird’s wing.”

– PETER KURCZYNSKI OF THE NATIONAL SCIENCE FOUNDATION

4

5

6.4 feet across

2

The EDGES radio spectrometer at CSIRO’s Murchison Radio-astronomy Observatory in Western Australia.

Earth and space

Search for the 1st stars

Team finds answers to long-pondered questions

Long ago, about 400,000 years after the Big Bang, the universe was dark. For the next 50 million to 100 million years, gravity slowly pulled the densest regions of gas together until they collapsed to form the first stars.

What were those first stars like, and when did they form? These are questions astronomers have long considered.

Now, after 12 years of experimental effort, a team of scientists — led by ASU School of Earth and Space Exploration astronomer Judd Bowman — has detected indications of the earliest stars in the universe. Using radio signals, the detection provides the first evidence for the oldest ancestors in our cosmic family tree, born a mere 180 million years after the universe began.

Bowman’s team used a ground-based instrument called a radio spectrometer at the Australian national science agency’s (CSIRO) Murchison Radio-astronomy Observatory (MRO). The signals detected came from primordial hydrogen gas that filled the young universe and existed between stars and galaxies. These signals hold a wealth of information that opens a new window on how early stars — and later, black holes and galaxies — formed and evolved.

— Karin Valentine



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v: to enter upon;
to begin; to take
a degree at a
university

Commence

TASSEL TIME

You've aced your last exam and packed up your notes. Now it's time to celebrate your amazing achievement: a degree, paid for with your creativity, determination and — let's be honest — more than a little caffeine. But before you set off for that next chapter, let's take a minute to remember the top moments of your college years and reflect on just how far you've come.

Time capsule

Top news and trends of the Class of 2018's college years. **20**

'Soul sisters'

Five members of Gila River cohort prove it's never too late to earn a degree. **24**

2014–2018 time capsule

Cultural and campus highlights from the past four years, when the lines between what happened on our screens and what happened IRL blurred together.

by CHRIS HAGAN, BRIANNA DAVIS '18 AND CONNOR PELTON '18

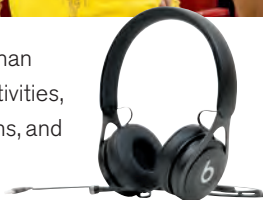
2014

Saturday nights

Sun Devils used Yik Yak (the Taco Bell at Apache and Rural), Snapchat once they were there and free Uber ride codes to get everywhere else.



Arizona State University welcomes more than 10,000 freshman for fall with a week of activities, back when women wore high-waisted jeans, and Beats headphones still had cords.



Bachelor's for baristas

ASU partners with Starbucks to launch the Starbucks College Achievement Plan.



We're #1

Before ASU was No. 1 in innovation, it was No. 1 in music streaming. In 2014, Sun Devils streamed more songs on Spotify than any other university.

'Happy'

This song by Pharrell from "Despicable Me 2" was the top track for the year on Spotify.



The Jael Mary

Down by two points with seven seconds to go, Sun Devil wide receiver Jaalen Strong catches a 46-yard Hail Mary pass to defeat USC, 38-34.



Brain freeze

The Ice Bucket Challenge raises \$115 million for ALS research.

Welcome to the fam

The Thunderbird School of Global Management becomes part of ASU.

#selfie

Will selfies still be a thing in 20 years? Who knows. One thing is for sure, 2014 was the year of the selfie stick.

JAROD OPPERMAN/ASU; ANDY DELUSLE/ASU; CHARLIE LEIGHT/ASU; PETER RUBIN/ASU

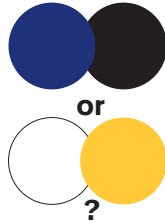


Charter for change

ASU carves its first official charter in stone. President Michael M. Crow describes the document, focused on a mission of inclusion and social responsibility, as an expression of “the reason for the existence of the institution” and one that reimagines the role of a major university in the 21st century.

“ASU is a comprehensive **public research university**, measured not by whom it excludes, but by **whom it includes** and how they **succeed**; advancing **research and discovery** of public value; and assuming **fundamental responsibility** for the economic, social, cultural and overall health of the **communities** it serves.”

2015

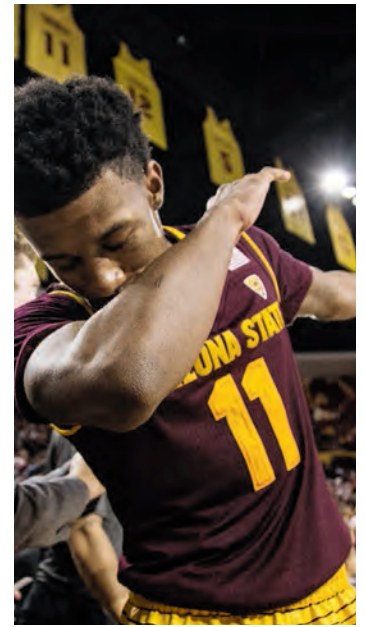
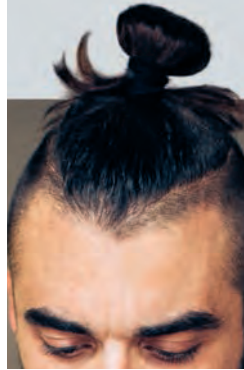


#dressgate

A dress posted on Tumblr goes viral, sparking a debate for the ages: #blueandblack or #whiteandgold?

The man bun

No one rocked it better than the hipsters of Herberger.



A little dab'll do

The Dab craze sweeps the nation and guard Shannon Evans II shows us how it's done.

Super Bowl XLIX comes to the Valley, and ASU is at the center of the action. The marching band performs Taylor Swift's "Shake It Off," students from the Cronkite School assist the NFL with news coverage and "Tonight Show" host Jimmy Fallon shows up at Old Main.



The earliest evidence of the human genus Homo, uncovered in Ethiopia by an ASU team, was featured in the journal Science. The lower jaw was dated to 2.8 million years ago, predating other Homo fossils by 400,000 years.



Hurley's hired

ASU hires Bobby Hurley, one of the best collegiate point guards of all time, as head coach for Sun Devil men's basketball. His intensity and passion on the sidelines instantly become part of Sun Devil lore.

2016

The year that was so ... extra.



Gonzalez grabs the Groza

In his senior season, Zane Gonzalez wins the Lou Groza award, which goes to the nation's best kicker.

adidas superstars and velvet everything are on fleek.



The number of ASU alumni worldwide surpasses 500,000.

Speedo of Distraction

Michael Phelps, the most decorated Olympian of all time, trains for the 2016 summer games at ASU. The 942 Crew recruits him to join the 'Curtain of Distraction,' wearing his gold medals and a matching gold Speedo. Oregon State misses both free throws, obvi.



27 Sun Devils go to the summer Olympics

in Rio de Janeiro, representing 15 countries in nine sports.

Ready Player One

ASU's West campus hosts author Ernest Cline ("Ready Player One") for its Summer Community Read before Steven Spielberg takes it to the big screen in 2018.



After "exploding" onto the scene, hoverboards are banned on all ASU campuses.

ASU researchers help develop a rapid, low-cost test for Zika that could stop a potential pandemic.



What do you meme?

SpongeBob goes caveman, Jordan sheds some tears and iconic duos are named in the year's biggest memes.

The Beus Center for Law and Society, home to the Sandra Day O'Connor College of Law, opens on ASU's Downtown campus.



2017

Sun Devil shade

The last of Palm Walk's Mexican fan palms are replaced with date palms.

The Mayo Clinic School of Medicine welcomes its first cohort of 50 students in Scottsdale. The curriculum is jointly developed with ASU.



Sun Devils become sun watchers for the first coast-to-coast solar eclipse in 99 years. The School of Earth and Space Exploration had solar-safe viewing glasses at the ready.

#squad goals

Infernofest brings the All American Rejects to Wells Fargo Arena.

#fake news

The Cronkite School partners with Facebook to combat the epidemic of fake news following the 2016 U.S. presidential election.



The new Student Pavilion, designed for students by students, opens on the Tempe campus.

By the numbers

#ASUgrad



Graduates

14,753
total grads with
all degrees

in the Spring Class
of 2018

10,300+
undergraduate

students will receive
their degrees.

54.8%
from Arizona

More than half of the
Spring Class of 2018
hails from Arizona.

4,407
graduate

and doctoral students
will receive degrees.

SOURCE: ASU REGISTRAR SERVICES

*All numbers accurate as of press time. Final numbers may differ.

ASU's Polytechnic campus is home to AZLoop, a team of more than 100 students competing as finalists in SpaceX's Hyperloop competition.



To protect human and environmental health, the Food and Drug Administration bans two common but ineffective antimicrobials from consumer products, such as antibacterial soaps, based in part on extensive research at ASU.

2018



The Broadway smash hit "Hamilton" is the hottest ticket at ASU Gammage in years and "Black Panther" is the woke superhero the world's been waiting for.



10,603 fans
per game

The men's basketball team had Sun Devils shook. Their perfect nonconference record helped secure record attendance numbers at Wells Fargo Arena during the Pac-12 season and set the team up for a trip to the big dance – their first since 2014.

#throw back

T-Pain headlines Devilpalooza at Memorial Union.

#hashtags (n) a word or phrase preceded by a hash sign (#), used in social media, especially Twitter; extra (adj) excessive or dramatic; doing the absolute most; fam (n) your chosen family; IRL (acronym) in real life; meme (n) a digital image, video, or gif; that is copied (often with slight variations) and spread rapidly via internet; obv (adv) short for obviously; on fleek (adj) flawlessly styled or groomed; shook (adj) shocked, surprised; left speeches; squad goals (n) something you and your friends aspire to; throwback (n) a reminder of the past; woke (adj) aware of issues relating to racial and social justice

Student slang decoder





'Soul sisters'

Members of Gila River Culture and Language Teacher Cohort support each other and their community as they earn their master's degrees

Story by BOB YOUNG
Photos by DEANNA DENT

In the 1950s, after the Indian Relocation Act was enacted, Priscilla Espinoza's family moved from the Gila River Indian Community in the far southeast Valley to Southern California.

She met her husband, Phillip, there. They raised six kids. And they felt the sting of discrimination and racism that was commonplace to her people in those days. They became activists, joining the Brown Berets, a group modeled after the Black Panthers in the 1960s.

Espinoza was marching with them in Los Angeles during August 1970 when two activists and newspaper editor Ruben Salazar were killed. Salazar was struck by a tear-gas canister fired by a sheriff's deputy.

"I was there, marching and dodging tear gas," she says. "It really did make an impact, and a lot changed in Southern California. Because of that big

march they started getting more minority teachers, and there was a big push for equal education."

She put her own higher education, however, on the backburner. Through it all, she never forgot her place among the Akimel O'otham people in Arizona.

"I never lost my identity when I left," Espinoza says. "I take it with me wherever I go."

After Phillip, to whom she was married for 42 years, passed away seven years ago, the 69-year-old great-grandmother of two and grandmother of six felt a pull from home and a push from her late husband, who had told her to "keep going, keep living."

"He was my greatest supporter," she says.

Now she is among five women from the Gila River Indian Community who call themselves the "soul sisters." Soon, they will be the graduating grandmas and

From left: Priscilla Espinoza, Marcella Hall, Edwardine Thomas, Nina Allison and (not pictured) Starleen Somegustava have formed a close relationship through the Gila River program.

mothers — and remarkable role models for the people of their community and beyond.

Ranging in age from 36 to 69, Espinoza, Edwardine Thomas, Nina Allison, Marcella Hall and Starleen Somegustava are completing work on Master of Interdisciplinary Studies degrees as members of the Gila River Culture and Language Teacher Cohort, a partnership between Arizona State University's Center for Indian Education, New College of Interdisciplinary Arts and Sciences and the Gila River Indian Community Tribal Education Department. The first-of-its-kind program trains future teachers on their home reservation with a focus on tribal history and keeping alive the Akimel O'otham language.

The group has formed a tight bond.

"We have all been through a lot of stuff together," says Thomas, a 56-year-old grandmother of four. "These are my sisters. We've gone through a lot of stuff. We're still going through a lot of stuff. Every week



"I'm so proud of who I am and proud of what I represent to the people here. They trust me because they know I'm a member of the community, too. So my heart is full."

— PRISCILLA ESPINOZA

we come to class and we lean on each other."

All have experienced similar challenges while pursuing their education — from getting back into good study and attendance habits, to feeling a sense of responsibility for their immediate and extended families that is such an important piece of their culture, to balancing work and school, to solving the mysteries that are laptop computers and PowerPoint presentations.

Perhaps the greatest challenge was simply believing that, despite their age and responsibilities, they could achieve an advanced degree from ASU.

"I've been going to school off and on since 2014, starting at South Mountain (Community College), and I would say this

year has been the most stressful year ever," says Hall, 36, a cultural instructor for fifth- through eighth-grade students at Sacaton Middle School, about an hour south of Phoenix. She has a daughter and is caring for a niece and nephew.

"I'm handling it, and it's hard," she adds. "Coming here and letting the ladies know and having their support, it gets easier."

Espinoza and Thomas are the elders of the group. Each happened upon the cohort by happenstance.

"I always tell people I'm a lifelong learner," Thomas says. "I've been going to school since after high school. I went to college for one year but had to drop out, just for family things. I had to take care of my siblings. So I had to work."

She has worked for 26 years at the Blackwater Community School in Coolidge. When she attended an in-service teacher training program at the Wild Horse Pass Hotel and Casino, it led her back to school.

"There were people there from South Mountain (Community College), and they asked if any people were interested in obtaining their degrees," she says. "So that's where it started."

Now, she is the only member of her family to earn a college degree. Her work at Blackwater focuses on making home visits to people in the community and working with parents and children to reach child-development milestones in gross and fine motor skills and language.

"We incorporate the O'otham language in our visits because a lot of the parents do not know our language," she says. "So they learn along with their kids."

She says her ultimate goal is to establish a full-immersion

New Native student magazine

ASU students have started a new magazine tailored to the Native American college student. Turning Points, created by and for Native students, covers student stories, issues, resources and events. To learn more, follow the magazine on social media:

medium.com/@turningpointsmagazine

📍 @ASUturningpointsmag

📘 @ASUturningpoints

📺 @ASUturningpoint



school in the Gila River Indian Community that all of the soul sisters might someday work at.

To that end, the women will join forces this summer to bring together members of the community's seven districts for a camp that would immerse participants in the O'otham language and culture.

"We're going to try to do it for three weeks and see how that goes," Thomas says. "The rest of my cohort members are going to be in on that, too."

"It's going to be limited to about 10 families per district, and hopefully this will be like a steppingstone for other people to come and join our group, because we're open to anyone helping us — other community members that are fluent in language or dances or basket making."

When Espinoza returned to the area to be near one of her sons living in Maricopa, she paid a visit to the Gila River Indian Community Governance Center to complete some paperwork. She and her husband had hoped to retire in the community.

"I had retired from a school district in California, where I was a special education (instructional assistant)," she says. "I was at the Governance Center to talk to a lady about my paperwork. I wasn't looking for a job. This young lady was putting up flyers that said 'special needs (teacher) urgently needed.'"

"I said, 'I used to do that for years.' Long story short, they interviewed me that day, got my paperwork and hired me on the spot."

She was asked to work with a young boy with cerebral palsy, who couldn't walk or talk.

"He could only say 'mama' and 'no,'" she says. "I put all my



"We incorporate the O'otham language in our visits because a lot of the parents do not know our language. So they learn along with their kids."

— EDWARDINE THOMAS

energy into this little boy. ...

"I would see him every morning and say, 'Good morning, what is your name? My name is Priscilla.' I said that over and over for six months. One morning I said, 'Hi, buddy,' and he looked at me and said, 'Hi, 'scilla!' Oh my gosh, I knew then that this is it."

Gregory Mendoza, who was Gila River Indian Community governor at the time, came to visit Casa Blanca Community School in Bapchule, where Espinoza works, and told her he had gotten a report about her work with the young boy, who now uses a walker.

"He said, 'I want you to get into this program we have going on, this cohort. We want you to get your degree. We need people like you to help our people here.' So that was it," Espinoza says.

"I'm so proud of who I am

The Akimel O'otham language

In 2009, the Gila River Indian Community adopted an orthography — a system of written words — for their Akimel O'otham language. Keeping that language alive is part of the mission of the Gila River Culture and Language Teacher Cohort. A sampling of words from the language:

Soith
pronounced
(so yeth)

love

Sha pai
masma

(sha pie
masama)

How are you?

Sape
(saw pa)

fine

Tho
epom
ñei
(do umpam
nyeh)

will see you again

Je'e
(j'uh)

mother

O:g
(awg)

father

Ga ga'a
(ga ga ah)

paternal grandmother

Lu lu'u
(luu luu ooh)

maternal grandmother

Vosk
(vawsk)

paternal grandfather

Ba ba'a
(ba ba'a)

maternal grandfather

and proud of what I represent to the people here. They trust me because they know I'm a member

of the community, too. So my heart is full."

The women in the cohort — many of whom are able to participate because of private giving — agree that they are motivated most by what they represent for their families and community members. Espinoza says the cohort members hope their successes will "snowball."

"When family members see each one of us, the five of us, I think it will trickle down," she

says. "It will snowball, pick up momentum. That's what we're hoping for."

"I tell my students, 'Don't be a statistic,'" Hall adds. "We have a lot of high school dropouts, and not many of our people are going to college. I say, 'Make your people proud. Make your family proud of you. We need our people in our communities sitting in the seats we are in as teachers, as educators, as tribal council members. You are all going to be filling our seats.'"

Allison, a mother of four and grandmother of three, briefly stopped her studies in the program when a nephew was killed in a car accident. He had just graduated from high school.

The desire to set an example

for others kept her from giving up.

"I didn't do homework. I didn't do readings. That was a struggle for me," she says. "... I told myself I had to get back on track. You do it for your kids. You do it for your family. You're that role model. You're that example.

"You have ups and downs and have struggles, but you go on."

Thomas tells young people to get their education while they're young instead of waiting like the members of the cohort.

"If I could turn back time, I wish I would have stayed in school and finished (college) after high school," she says. "(I tell them) 'You can do it. Just set your priorities straight and know your family will always be behind you.'" ■

"I told myself I had to get back on track. You do it for your kids. You do it for your family. You're that role model. You're that example."

— NINA ALLISON



Prep for
the corner office

Start college while you're in high school
www2.asuprepdigital.org/magazine

ASU Prep Digital
Arizona State University

v: to be marked by a flurry of activity; to fly fast and close to; to be filled with sound

Buzz

LEARNING BY THE LAKE

ASU strives to meet its students where they are — and for the 130 students at the ASU Colleges at Lake Havasu City, that's on the edge of a 19,300-acre reservoir in northwestern Arizona. For students, Lake Havasu's proximity means plenty of opportunities for outdoor recreation and in-the-field learning, such as the ecology lab pictured here. An active lifestyle is one reason students choose the Havasu location.

New director Raymond Van der Riet expects the student population to more than double in the next five years, something the surrounding community embraces. The city's support is tangible: \$1 million of the location's startup funds was raised through bake sales and other community fundraising.

Hive minds

Bee scientists aim to improve lives for the insects — and us, too. **30**

On the map

See where some of ASU's top scholars are working around the world. **34**

New media

Cronkite alum Nicole Carroll is USA Today's new editor-in-chief. **36**

Hive minds



Ask A Biologist

ASU's Ask A Biologist is an educational website that provides free articles, games, podcasts, lessons and other resources — including a virtual-reality tour of a beehive — to learners of all ages. In 2017, more than 12 million visits were registered to the site, which has a feature where biologists answer visitors' questions. Highlights from the site are in gold throughout this article. askbiologist.asu.edu



ASU researchers' work with bees is being applied to human health and human behavior.



ASU's bee scientists apply their sweet smarts with the aim to improve life for the insects — and for humans, too

Story by KAREN FERNAU

When Robert Page walks through the 4 million honey bees housed at Arizona State University, he sees the potential to better understand how to survive tough living conditions. The Regents' Professor also sees a way to build stronger immune systems.

Gro Amdam, a professor with the School of Life Sciences, considers the bees in 100 hives at ASU's Honey Bee Research Lab as nature's role models. "If everyone respected the environment like bees, we would all live in a better place."

To the lab's project manager and apiculturist, Osman Kaftanoglu, the bees offer a working blueprint on living efficiently and peacefully. "I wish we could act more like bees; thousands of hard workers who live close together in harmony."

Although their research projects differ, ASU's bee scientists share goals: turning research into cures for diseases, gaining a better understanding of human behavior and protecting crops by reversing the plague that has killed an alarming number of bees over the past decade.

"Our research is making contributions that make a lasting difference to bees and humans," says Page, recognized as the world's leading bee geneticist, who has authored more than 230 research articles, ranging from the division of labor in honey bee society to genetics and evolution of social organization.

A buzz-worthy lab

ASU began its honey bee research in earnest in 2004 when Page left his post as chair of the entomology department at the University of California in Davis to become founding director of the ASU School of Life Sciences.

Two years later, ASU opened its bee lab on the Polytechnic campus in Mesa, the largest of its kind in North America, that attracts visiting scientists from the U.S. and abroad.

Page — whose titles include provost emeritus and Foundation Chair of Life Sciences in the ASU College of Liberal Arts and Sciences — decided early on to devote his career to researching bees, and he has stayed true to his commitment for more than three decades, winning international accolades along the way.

But, for him, it's the bee lab and its handful of researchers that deserve praise. Their discoveries are both vast and significant.

Led by Page, researchers found that bees that collect more protein-rich pollens and less carbohydrate-loaded nectar are healthier, and that selectively breeding the protein-consuming bees leads to healthier colonies.

ASU bee researchers helped discover that our own gut bacteria may contribute to the alarming antibiotic resistance to bacteria that causes disease. They also discovered that bees faced with short-term starvation when young adapt better to starvation as adults.

In a move to save the bees,



researchers are studying how pesticides affect larvae and behavior. Other research is focused on preserving genetic stocks, artificial insemination of queen bees, territorial patterns and the widespread death of bees.

No one discovery alone is expected to reverse the spiraling death toll of bees and protect the food supply. But together they make a solution possible, or at least slow the spiraling decline.

"Research is always incremental, with pieces being added by all of us.

Regents' Professor and Founders' Day Creasman Award of Excellence recipient Robert Page calls his 2013 book, "The Spirit of the Hive: Mechanisms of Social Evolution," his opus to bees.

There are so many things we can learn from bees,” says Page.

Food and human health

To Bob McClendon, a farmer growing organic fruits and vegetables on 93 acres in greater Phoenix’s West Valley, the lab’s

research into the alarming death of bees hopefully will help rebuild their ranks.

There were 5.5 million U.S. colonies in the 1950s, down to about 2.5 million today, researchers estimate. They blame a combination of pesticides, pollution, diseases, parasites and habitat destruction for the decline.

“Without bees, there simply would not be enough food to go around,” says McClendon, who first learned the importance of bees to agriculture decades ago as a college student working at a USDA-funded bee lab in Tucson.

In Arizona, these mega-pollinators support the harvesting of \$7 billion in agriculture.

According to the Food and Agriculture Organization of the United Nations, of the 100 crops that account for 90 percent of the world’s food, 71 rely at least in part on bee pollination.

“Keeping bees alive and healthy is something we all should care about,” McClendon says. “Research gives us hope.”

In addition to keeping bees

healthy, the ASU lab’s research zeros in on human health, searching for ways to protect against and cure diseases.

Take, for example, the research led by Brian Smith into learning and memory in both bees and humans. His work is being applied to studies of human diseases, including Alzheimer’s and Parkinson’s, along with the harmful effects of heavy metal poisoning on learning.

“Our work is with bees, but what we are learning will help humans in a very direct way,” says Smith, a behavior neuroscientist who is an ASU Trustee Professor in the School of Life Sciences and associate dean in the Graduate College.

Amdam also believes this to be true. The Norwegian biologist spends the lion’s share of her research time on how bees evolved from a solitary to a social state, how they age and ways to protect them against deadly diseases.

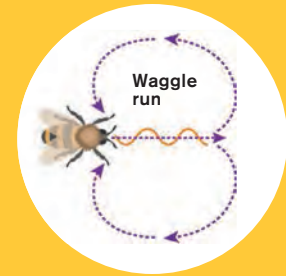
Her hopes are that the findings lead to cures for age-related diseases, or at least serve as a compass to point medical researchers in the right direction.

According to Amdam, bees age according to their role in the hive, not necessarily to how many days they have been alive. Those who leave the nest to gather pollen and nectar age quicker than the females who tend babies in the nest.

More importantly, research showed the brains of gatherers placed back in the hive to tend the babies rejuvenate, a sign that learning new tasks and nurturing young could be keys to living longer.

“Things we find true for bees can be true for us as well,” she says. “Maybe the elderly are better stimulated by interacting with babies than by playing computer games. Our findings with bees are

How do bees give directions to the best flower patches?



The dancing bee waggles back and forth as she moves forward in a straight line, then circles around to repeat the dance. The length of the middle line, called the waggle run, shows roughly how far it is to the flower patch.

- **Bee dance game on Ask A Biologist:** In this interactive module, learn how to find the best flowers.

Who’s in charge?

A honey bee colony has one queen bee and many worker bees. Queens are in charge of laying eggs and can lay more than 1,000 eggs a day. Most eggs turn into female worker bees, who gather nectar, care for the young and build the colony. A few eggs become male bees, or drones, that leave the colony to mate with other queens.

- **Biology Bits flashcards on Ask A Biologist include easy-to-digest information about the bee life cycle, anatomy and more.**



Queen bee



Worker bee



Drone

“Keeping bees alive and healthy is something we all should care about. Research gives us hope.”

— BOB MCCLENDON,
OWNER OF MCCLENDON’S
SELECT ORGANIC FARM

inspiring new research on aging.”

ASU researchers also helped discover that bees and humans share a connection between sugar sensitivity, diabetic physiology and carbohydrate metabolism.

This, in turn, could lead to advancements in helping diabetics control blood sugar.

Lessons from bee society

ASU researchers also study bees in hopes of learning how to make humans live together peacefully.

For this, researchers focus on the beehive and its colony, a miniature universe with order and purpose. Every colony consists of a single queen, hundreds of male drones and between 20,000 and 50,000 female worker bees.

Each bee has a specific role: the queen lays the eggs; the all-female workers forage food; and the male drones mate with the queen.

Bee-ware: a digger in the desert?

One midsize species (bigger than a honey bee, smaller than a bumble bee) found in Arizona goes by the scientific name *Centris pallida*. Unlike the honey bee, this native bee has no universally accepted common name and so we are free to call it the “digger bee” in honor of its habit of digging in desert soils. Why does it dig? Get the answer at askabiologist.asu.edu.

Amdam believes that research into the bees’ finely tuned social structure holds the potential to improve ours. “I hope what we do inspires people to understand nature, animals, plants and our roles

in living together. Our research goes beyond health and happiness,” she says. “It can teach us how to respect the natural world.”

Kaftanoglu, who has been lab director from its inception, has spent four decades studying bees. One of his favorite lab responsibilities is hosting open-to-the public courses on beekeeping, including instruction on establishing hives and harvesting honey, beeswax and royal jelly.

He believes that healthy bees promote healthy communities.

This summer Kaftanoglu plans to retire, but not from bees. He will continue teaching beekeeping courses around the world.

“I find (bees) as interesting and important today as I did as a graduate student,” he says.

“And, for me, they bring peace. If I feel down or depressed, I just open the beehive and talk to the queen.” ■

Your Alma Mater Their Inspiration

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Scholars around the world

Sun Devils have a bold way of putting ASU on the map. The university's world changers venture forth each year to discover new paths in faraway places. Here's where some of ASU's top scholars are currently or are preparing to study and serve around the globe.

The Fulbright program provides opportunities to teach, study and conduct research abroad. In 2018, among public universities, ASU ranked seventh in student Fulbright awards, ahead of the University of Virginia, the University of North Carolina at Chapel Hill, Penn State and Ohio State.

The Gilman International Scholarship program provides awards for U.S. undergraduate students who are receiving federal Pell Grant funding at a two-year or four-year college or university to participate in study abroad programs worldwide.

Albania

Daniel Klingenberg
Fulbright

Austria

John Harkness
Fulbright

Belgium

Cassandra Roose
Fulbright

Bulgaria

Tajia Moertle
Fulbright

Canada

Layla Anderson
Killam Fellowship

Jeanette Dilley
Killam Fellowship

Brittany Hale
Killam Fellowship

Chile

Laura Stanovich
Gilman International Scholarship

China

Anthony Costantini
Gilman International Scholarship

Dominique Reichenbach
Gilman International Scholarship

Costa Rica

Diana Chen
Gilman International Scholarship

Ataiyo Viafora
Gilman International Scholarship

England

Erin Schulte
Marshall Scholarship

Ngoni Mugwisi
Rhodes Scholarship

Christopher Balzer
Churchill Scholarship

Ghana

Callan Gillette
Gilman International Scholarship

Guatemala

Khushbu Ahir
Gilman International Scholarship

Mulki Mehari
Gilman International Scholarship

India

Ainsley Pfeiffer
Fulbright

Patricia Esch
Fulbright

Jasmine Finnell
Gilman International Scholarship

Breanna Jeter
Gilman International Scholarship

Hector Trujillo
Gilman International Scholarship

Japan

Kayla Phillips
Gilman International Scholarship

Luxembourg

Shane Lubold
Fulbright

Macedonia

Christopher Briones
Gilman International Scholarship

Derek Miltimore
Gilman International Scholarship

Melaka State in Malaysia

Meera Doshi
Fulbright

Morocco

Cassandra Roose
Gilman International Scholarship

Nepal

Michele Clark
Fulbright

Netherlands

Freya Mehta
Fulbright

Nicaragua

Sophia Le
Gilman International Scholarship

Northern Ireland

Alyssa Santa Cruz
US-UK Fulbright Commission Summer Institutes

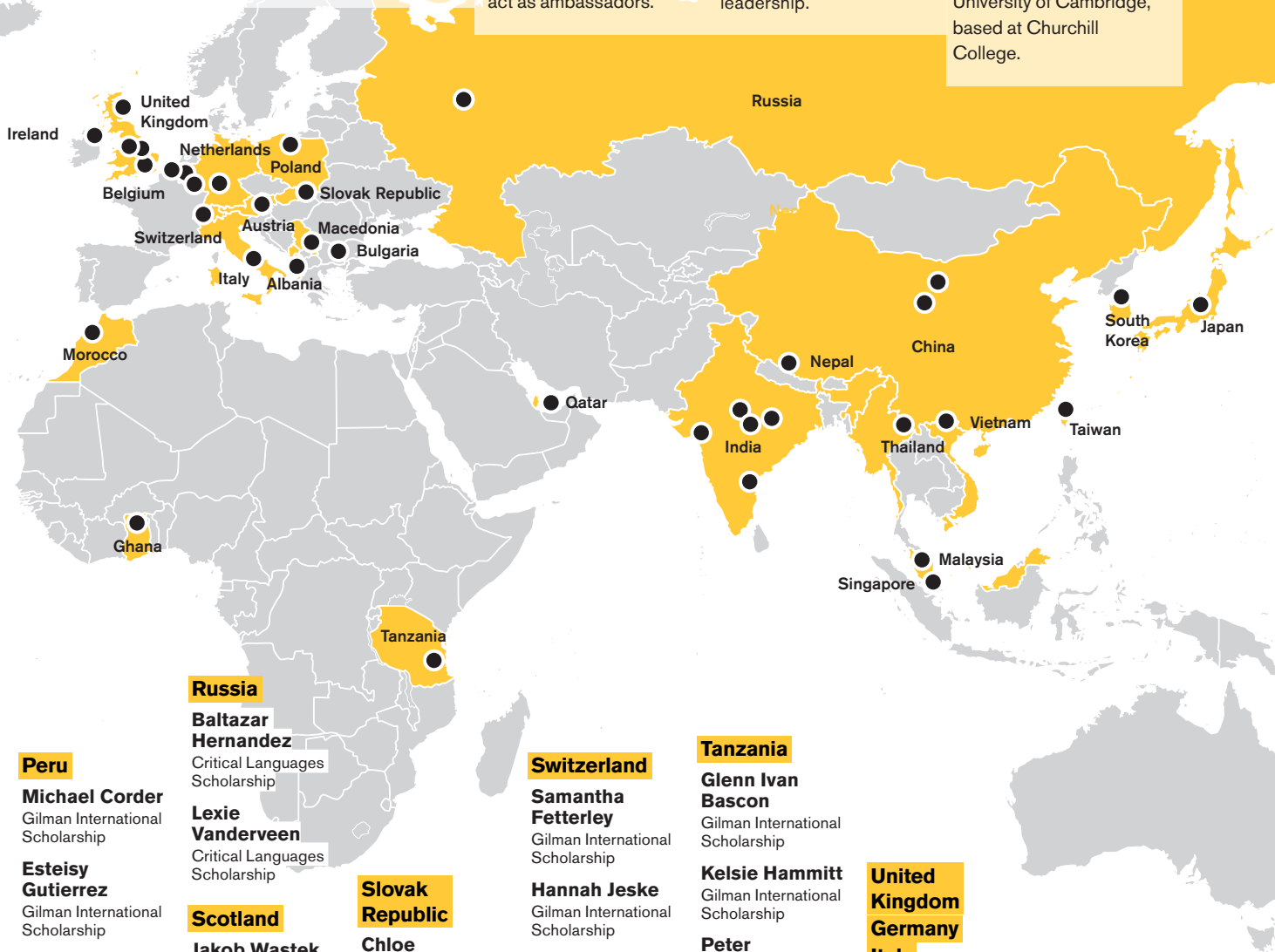


The Killam Fellowships program allows undergraduate students to participate in a curriculum of binational residential exchange. Killam Fellows spend one semester or a full academic year as an exchange student in the host country.

The Marshall Scholarship enables intellectually distinguished young Americans, anticipated to be the country's future leaders, to study in the UK so that they may gain an understanding and appreciation of contemporary Britain and act as ambassadors.

The Rhodes Scholarship provides full support for study in any discipline at Oxford University. Rhodes Scholarships reward outstanding academic achievements, character, commitment to the common good and the recipient's potential for leadership.

The Churchill Scholarship is among the most prestigious postgraduate awards in the world and is offered to only 15 students per year. It provides funding to American students for a year of master's study in science, mathematics, and engineering at the University of Cambridge, based at Churchill College.



Peru
Michael Corder
 Gilman International Scholarship
Esteisy Gutierrez
 Gilman International Scholarship

Poland
Molly Benkaim
 Fulbright

Qatar
Joseph Conant
 Boren Scholarship

Russia
Baltazar Hernandez
 Critical Languages Scholarship
Lexie Vanderveen
 Critical Languages Scholarship

Scotland
Jakob Wastek
 US-UK Fulbright Commission Summer Institutes

Singapore
Joshua Hsu
 Gilman International Scholarship

Slovak Republic
Chloe Warpinski
 Fulbright
South Korea
Thu-Phuong Nguyen
 Gilman International Scholarship

Switzerland
Samantha Fetterley
 Gilman International Scholarship
Hannah Jeske
 Gilman International Scholarship

Taiwan
Brenton Berge
 Gilman International Scholarship
Nahti Keo
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Tanzania
Glenn Ivan Bascon
 Gilman International Scholarship
Kelsie Hammitt
 Gilman International Scholarship
Peter Ole-Sabay
 Gilman International Scholarship

Thailand
Breanne McNitt
 Fulbright

United Kingdom
Germany
Italy
Sadaf Aayar
 Gilman International Scholarship

Vietnam
Megan Kelly
 Fulbright





New media

ASU Cronkite alumna Nicole Carroll takes compassion, curiosity and a nose for news to her role as USA Today's new editor-in-chief

Story by JULIA WALLACE

Photos by JAROD OPPERMAN; BRANDON SULLIVAN

Editor of the Year

Carroll was named the National Press Foundation's 2018 Ben Bradlee Editor of the Year.

From the time she was an undergraduate at ASU, it was clear that Nicki Carroll was going places.

For one thing, she didn't let obstacles — like the lack of a car — get in her way. When she was assigned to cover a water commission meeting in Apache Junction for a public affairs reporting class, she simply hopped on her red scooter and drove it the 26 miles.

"You just do whatever it takes to get the job done," she says.

Nicole Carroll, who graduated from the Walter Cronkite School of Journalism and Mass Communication in 1991, recently was named editor of USA Today, one of the top media brands in the country. She credits Cronkite for setting her on the path that has led to her success, but that's not surprising: Carroll is always quick to give credit to others.

When she won the Ben Bradlee Editor of the Year Award from the National Press Foundation a few months ago, she insisted the award belonged to the journalists she works with, her husband and her three children. Let's just say that's not the typical acceptance speech.

Carroll has been the top editor at The Arizona Republic for 10 years, earning a reputation as a compassionate and thoughtful leader who loves journalism and the people it serves. She has been in charge during a time of dramatic change in the news business — change that she has met head-on with a series of initiatives to engage audiences in new and meaningful ways.

For example, the Republic invested nine months in a series about the border between Mexico and the U.S. that examines what would happen if a wall was built. The project maps the entire border for the first time and allows users to travel the border virtually to see for themselves what it is like.

It's the kind of creative storytelling that Carroll prizes. Journalists, she says, need to be adventurers. What would happen if ... ? How could we ... ? Those are the kinds of questions that interest her.

And she wants collaborators, people who can work well with

“I say this all the time: We have the First Amendment responsibility to educate and inform to empower our communities. If we write stories that nobody reads, we’re not upholding that responsibility.”

— NICOLE CARROLL

others. “We really need journalists who are going to lead the way and help us transform,” she says. “Just being a good writer isn’t enough anymore.”

Carroll worked at USA Today early in her career, first in the features section and then in the graphics department. In 1996, she was working at the paper and had just finished a master’s degree in liberal studies at Georgetown University. Her husband had just graduated from law school. That winter, “they had shut down all the freeways, and we had to shovel a path for our dog out the back door to go to the bathroom,” Carroll says. The couple decided to head back to the blue skies of Phoenix to build their life and raise a family.

She landed a job at the East Valley Tribune and gave birth to twins. A few months later, she

moved to the Republic as an assistant city editor. As she rose through the ranks over the next decade — and added a son to the family — she learned to juggle work and family in creative ways. She would often pack two suitcases for herself when the family went on vacation so she could leave mid-vacation for a business meeting somewhere. She watched her daughters try on prom dresses via FaceTime.

“In the beginning when I would need to go to a school event, I would say, ‘I’m going to an appointment’ — (being) sort of nonspecific about it,” she says. “And now I say out loud, ‘Hey, I’m leaving early to go to my son’s soccer game. I hope you do, too.’” And if anyone needs her, they know they can reach her on her phone, which she checks constantly.

A newspaper that reflects its readers

As she heads to USA Today, based in the suburbs of Washington, D.C., Carroll is thinking a lot about what it takes to lead a successful news organization. Part of the answer is transparency, telling readers how news decisions are made — and why — and providing original documents that back up reporting whenever possible. That, she says, helps build credibility.

News organizations also need to connect with readers, really listening to their concerns and issues, she says.

One of the criticisms of the Washington press corps is that it is too insulated from the concerns of the people who live outside of the East Coast corridor. This lack of connection is widely seen as part of the reason so many news organizations were surprised by Donald Trump’s election as president in November of 2016.

Through its unique visual storytelling, including the printed newspaper, USA Today delivers high-quality and engaging content across print, digital, social and video platforms. It reaches more than 3 million readers daily.



"I think bringing the perspectives of my neighbors and the people that I interact with every day will be important," she says.

Connection extends to internewsroom efforts as well, something the Cronkite School and the Republic have built during her time there, from co-sponsoring debates and polls to an ASU multimedia class that provides hands-on experience working on the Republic's breaking-news desk. In addition, three ASU journalism students were also involved in the award-winning "The Wall" project. The trio worked with an ASU geographical information system specialist to synchronize 40 hours of footage, linking every second of the video to its location on the map of the nearly 2,000-mile border — a crucial, painstaking step that allowed readers to see all aspects of the border themselves.

Carroll has great admiration for USA Today, which was founded in 1982 among much derision from the journalism establishment. It is now one of the largest print newspapers in the country, with a daily readership topping 3 million. It is one of the most-used digital media news outlets, with more than 120 million unique views a month.

Carroll says USA Today has always prided itself on being a reader-focused newspaper that gives people what they want, not just what journalists think they need.

It's an approach she thinks works: "I say this all the time: We have the First Amendment responsibility to educate and inform to empower our communities. If we write stories that nobody reads, we're not upholding that responsibility."

Carroll says she also hopes to build on USA Today's pioneering spirit. "When USA Today started,



Expanding reach and impact

12+ new programs

The Walter Cronkite School of Journalism and Mass Communication has launched more than a dozen professional programs since becoming a stand-alone academic unit at ASU in 2005.



Top honors

In the past decade, the Cronkite School has been No. 1 in the nation in the annual Society of Professional Journalists' Mark of Excellence competition and the Broadcast Education Association's Festival of Media Arts. Cronkite students have finished in the top 10 in the Hearst Journalism Awards each year.

Working with Pulitzer- and Emmy-winning faculty

Cronkite students work under the guidance of exceptional faculty with extensive professional credentials who guide them in the production of professional-level content day in and day out.

Covering the latest from coast to coast

The Cronkite School's professional programs range from Cronkite News reporting bureaus in Phoenix, Los Angeles and Washington, D.C., to a Spanish-language news bureau, a public relations lab and a media innovation and entrepreneurship lab.

A day in the life of a Cronkite student



Gabiella Bachara, a junior in the Cronkite School, reviews her assignment to cover an antibullying event.



After checking out her equipment, she heads to the state Capitol to meet up with representatives of lobbying group Public School Options.



With background video of associated events completed, Bachara focuses on interviews with campaign organizers and supporters.



Video wrapped, the young journalist heads back to the Cronkite newsroom to meet her 2 p.m. deadline.



Now in one of the newsroom's four fully-equipped editing bays, she edits today's video, preparing it for the evening's Cronkite News broadcast.

A bright outlook for Cronkite grads

"Almost every major media outlet has hired our students, and they all tell us our students are extremely well prepared," says Cronkite School Senior Associate Dean Kristin Gilger. "And we also want students to be prepared to lead those organizations when the time comes. We want the future of news in the hands of as many Nicole Carrolls as possible."

A strong partnership

At the Republic, Nicole Carroll often used her leadership position to advocate for philanthropic support of the Cronkite school. Among the initiatives she helped launch are:

Jeffrey Dozbaba Memorial Scholarship, in honor of a former managing editor who died of lung cancer. Along with Republic colleagues, Carroll worked with Dozbaba's widow Mary to establish an annual scholarship to support print journalism students at ASU.

Don Bolles/Arizona Republic News21 Fellowship, honoring an investigative reporter mortally wounded while covering allegations of corruption in Arizona. It supports an ASU student in an annual investigative reporting initiative.

High School Journalism Innovation Camp, Carroll was a driving force behind the launch of this high school summer program focusing on innovation in journalism. Funded entirely by the Republic, the inaugural camp took place in 2017 and will run again in 2018.

it was revolutionary,” she says. “I think that we need to continue to have that, even though we’re no longer the startup. We need to increase our innovative rigor. We need to continue to experiment with new ways to get information to people to think about.”

Carroll will be the third woman editor of USA Today. She replaces Joanne Lipman, who left to promote her book on men and women in the workplace. The newspaper’s first female editor was Karen Jurgensen, who was named to the job in 1999.

“We really need journalists who are going to lead the way and help us transform. Just being a good writer isn’t enough anymore.”

— NICOLE CARROLL

While many major news organizations — including The Washington Post, Los Angeles Times and CBS News — have never had a woman in the top leadership job, USA Today has traditionally led the industry in diversity efforts. Its founder, Al Neuharth, believed that news organizations need to reflect the people they cover.

Carroll will launch her editorship by scheduling small group meetings with every member of her new staff, learning everything she can as fast as she can. The



Here, there, everywhere

ASU student media outlets

The Cronkite School’s student journalists cover the news for a variety of outlets. See some of their work at these local student-centric organizations:

The State Press

The independent student publication covering ASU since 1890 counts many prominent media leaders among its alumni, including Nicole Carroll (shown above with the sweatshirt from her State Press days). statepress.com

Downtown Devil A student-run online publication launched in 2008 and dedicated to providing news quickly, accurately and completely

to the downtown Phoenix community. downtowndevil.com

Cronkite News The news division of Arizona PBS produced by the Cronkite School. News packages regularly appear in statewide professional news outlets, nationwide through an agreement with Tribune News Service and in a weekday newscast carried on Arizona PBS. cronkitenews.azpbs.org.

approach is vintage Carroll.

She remembers covering the opening of a new building while a student reporter at ASU. As a group of reporters toured the facility, Carroll started opening every door. “Just stay on the tour,” the others told her. But Carroll says she felt compelled to find out what was behind every door.

Did she find anything interesting

behind those closed doors?

Not really, Carroll says. But she’s still glad she did it, and she would do it again in a heartbeat. ■

Julia Wallace is the Frank Russell Chair at the Walter Cronkite School of Journalism and Mass Communication. She was the managing editor of The Arizona Republic when Carroll was hired.



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v: to engage
in sport or
recreation; to
perform an action

Play

PERFECT SEASON

Victory is sweet, but it's even sweeter when it's your trademark. Sophomore wrestler Zahid Valencia captured the NCAA wrestling title at 174 pounds in Cleveland on March 17, capping an undefeated season (32-0) and a remarkable two-year run with just one loss and two All-American honors in his hip pocket. Valencia avenged the only loss of his collegiate career when he defeated Penn State's Mark Hall 8-2 in the final.

At bat

Baseball, softball seasons. **44**

500!

Tennis coach is sixth to hit win milestone at ASU. **46**

Update

The latest sports news. **47**



Softball

“The possibilities are endless. We’ve got a really special group. We’ve got fun, we’ve got talent, we’ve got good team chemistry. I just think we’ve got to get hot and we’ve got to get lucky.”

— Trisha Ford, Sun Devil
softball coach

Strong

Remaining games
at home this season

May 4–6 vs Stanford

For more information and tickets, visit TheSunDevils.com/softball

Spencer Torkelson broke a 35-year-old freshman record held by Barry Bonds with his 12th home run of the season.

Baseball

“We’re trying to win a championship because that’s what we set out to do. Every decision is made for those 35 guys in that locker room. That hasn’t changed from Day 1, and it won’t.”

**– Tracy Smith, Sun Devil
baseball coach**

seasons

School’s out, but there are more great Sun Devil softball and baseball games to catch before the break for summer

**Remaining games
at home this season**

May 4–6 vs Washington

May 13–14 vs University of Pacific

May 24–26 vs California

For more information and tickets, visit TheSunDevils.com/baseball

Women's tennis

500!**McInerney becomes 6th ASU coach to score win milestone**

The Sun Devil women's tennis team made history in February at the Whiteman Tennis Center as Arizona State's sweep of Santa Clara was head coach Sheila McInerney's 500th career win in her 34-year tenure.

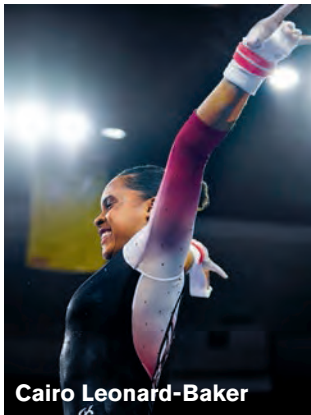
"ASU has treated me very well, and I just hope I have reciprocated that," McInerney said following the match.

McInerney is the sixth coach in school history to eclipse the 500-win mark and is the sixth-winningest ASU coach across all sports.

"I love tennis," she says. "You wear shorts and a T-shirt to practice, you do this for a living and you realize it's not really work. I think it's important to have passion for what you do, because I think it rubs off on the student-athletes."



Coach Sheila McInerney says camaraderie on the court and in the stands makes days like her 500th victory even better. "It's why you're in college; for the relationships."



Cairo Leonard-Baker



Jay Santos

Gymnastics

Leonard-Baker, Santos earn Pac-12 honors for stellar year

Arizona State gymnastics netted a pair of conference awards, as Gym Devil freshman standout Cairo Leonard-Baker was named Pac-12 Freshman/Newcomer of the Year, while second-year head coach Jay Santos earned Pac-12 Coach of the


Year honors.


Leonard-Baker became the first gymnast in program history to earn the best-of recognition. She also became just the second Gym Devil in Arizona State's illustrious history to earn yearly honors.

2018 football schedule

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 Arizona State Sun Devils

 SunDevilAthletics

 The Sun Devils



VS SEPTEMBER



1 (SAT) vs UTSA
TEMPE, ARIZONA



8 (SAT) vs Michigan State
TEMPE, ARIZONA



15 (SAT) at San Diego State
SAN DIEGO, CALIFORNIA



22 (SAT) at Washington
SEATTLE, WASHINGTON



29 (SAT) vs Oregon State
TEMPE, ARIZONA

OCTOBER



6 (SAT) at Colorado
BOULDER, COLORADO



18 (THURS) vs Stanford
TEMPE, ARIZONA



27 (SAT) at USC
LOS ANGELES, CALIFORNIA

NOVEMBER



3 (SAT) vs Utah
TEMPE, ARIZONA



10 (SAT) vs UCLA
TEMPE, ARIZONA



17 (SAT) at Oregon
EUGENE, OREGON



24 (SAT) at Arizona
TUCSON, ARIZONA

Schedule subject to change.

For tickets, please call
480-965-5333 or visit
TheSunDevils.com/football



Football

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The countdown is on to the 2018 Sun Devil football season, and Sun Devil Rewards wants to make sure you're there to see every home game, skybox-style! Download the SDR app for free entry into the sweepstakes for season tickets and daily chances to win.

sundevilrewards.com
asu.edu

 Sun Devil Rewards

Camp Tontozona field to undergo facility upgrades

Sun Devil Athletics and Sun Devil Football have announced Camp Tontozona will undergo upgrades, with a new synthetic field replacing the natural grass, as well as other renovations. The project is expected to be completed by the start of the footballers' 2018 camp in August.

The synthetic field will feature a water system for cooling and cleaning the field, sleeves for goal posts, field striping for multi-sport use and more.

Inclement weather has sometimes forced the team to move its daily routine from Camp T to Rumsey

Park in Payson, a 20-plus-minute drive away, or cancel practices altogether.

The 2018 field enhancements will help reduce the chances of field flooding and maintain practices at Camp T throughout the week.

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Valid through May 7, 2018.

v: to come together;
to build a rapport;
to establish
relationships

Connect



DRIVEN TO SUCCESS

There are many ways to show your ASU pride — but there's just one way that helps your fellow Sun Devils at the same time. Part of the fee for the newly redesigned ASU license plate goes to the Medallion Scholarship fund, the ASU Alumni Association's signature scholarship initiative that incorporates leadership and service.

Zouheir Ridouani (biochemistry) and Haya Sweidan (psychology) are among ASU's newest alumni in the Class of 2018.

Chapter updates 50

Class notes 51

Interview tips 53

Grads' advice 55

Founders' Day awardees 60

4 inspiring reads 63

New ASU license plate 64

Welcome new Sun Devil graduates!

As a 2018 graduate of ASU, you are a valued and important member of one of the country's largest alumni associations — some 500,000 strong! And, as you take your next steps toward a professional career, ASU is your powerful partner, each step of the way. Find out more by visiting alumni.asu.edu.

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Volunteer opportunities abound with the ASU Alumni Association. From ASU Cares to Tillman Honor Runs and more, feed your passion for giving back. alumni.asu.edu/volunteer/asu-cares

When in town

On-campus events provide opportunities

Career Exploration Nights and career fairs, Innovation Showcase and networking get-togethers. If you're rooted in the Valley, ASU and alumni events are a great way to stay in touch, make new connections and be entertained! asuevents.asu.edu



Wherever you are

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Join a chapter

and attend meetups to stay current on what fellow alumni are doing. See alumni.asu.edu/chapters for links to regional and special-interest chapters.

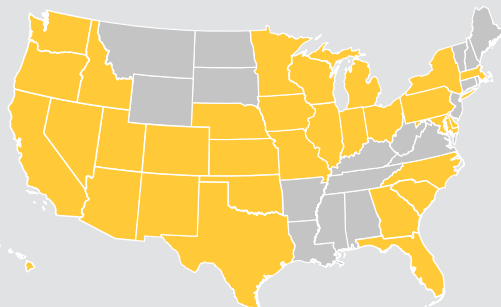
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Special-interest chapters

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- Leadership Scholarship Program
- LGBT Devils' Pride
- Los Diablos
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- Stickmens Club
- jminder@asu.edu
- Veterans

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- Prescott, Arizona
- marlenecurtis@hotmail.com
- San Antonio, Texas
- San Diego, California
- Seattle, Washington
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- Southern Colorado (Colorado Springs)
- St. Louis, Missouri
- Twin Cities (Minneapolis)
- Utah (Salt Lake City)
- Western Arizona (Lake Havasu)
- kim.krueger@asu.edu
- Western Pennsylvania (Pittsburgh)
- White Mountains (Pinetop, Arizona)
- Wisconsin (Madison)
- Yuma, Arizona

Class notes

2010s

Taylor N. Burgoon '17 JD has joined the Phoenix office of Fennemore Craig, a leading western U.S. business law firm. During her law school days at ASU, she served as an extern for the Honorable John J. Tuchi, U.S. district judge of the U.S. District Court for the District of Arizona.



Meaghan Cosgrove '17 BS marketing (digital and integrated marketing communications) has

joined Faciliteq's Phoenix location as a customer service representative, supporting the sales and account managers of office furniture and architectural interior products and services for a variety of industries. She previously served an internship as sales coordinator with Cushman & Wakefield.

Alex McElroy '15 MFA creative writing has published a short-story collection, "Daddy Issues," that has earned him the Cupboard Pamphlet's 2016 Editors' Prize. Says fellow author Alexandra Kleeman, "(His) writing burrows its way to the deep tissue of feeling and lodges there, determined." McElroy is also fiction editor of Gulf Coast, a journal of literature and fine arts.

Bradley J. Pew '13 BA Spanish, an attorney focused on environmental law, water law and commercial litigation, has joined the Phoenix office of Fennemore Craig. Prior to joining the leading business law firm, he completed a clerkship with the Honorable Jay S. Bybee of the U.S. Court of Appeals for the Ninth Circuit.

Ari Pozez '13 BIS

interdisciplinary studies has joined Blank Rome, an Am Law 100 firm, as an associate concentrating in corporate law in the New York City office. A magna cum laude Sun Devil graduate, Ari's expertise in the area of corporate law is focused on finance and security matters, venture capital and private equity investments, and merger and acquisition transactions. He joined Blank Rome from DLA Piper.



Reyna Montoya '12 BA transborder Chicana/o and Latina/o studies, U.S. and Mexican

regional studies; '12 BA political science, founder and executive director of Aliento, has been recognized by Forbes as a "30 Under 30" to watch in social entrepreneurship. The national recognition comes on the heels of being honored as an NBC "Latino 20" awardee for community achievements. Reyna's nonprofit Aliento supports undocumented youth and children of immigrant parents through art, leadership development and education.



Josephine E. Groh '11 BS sustainability has joined the Las Vegas office of national law firm Weinberg Wheeler

Hudgins Gunn & Dial as an associate. A former lead articles and technical editor of the Journal of the National Association of Administrative Law Judiciary, she specializes in civil litigation with an emphasis on catastrophic injury, premises liability and medical malpractice.

**ASU Alumni Association
2017–18****CHAIR**

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John Gibson '05 BS, '10 MBA

Kara Goldin '89 BA

Andy Hanshaw '87 BS

Danelle Kelling '00 BA, '04 JD

Tere LeBarron '82 BS, '92 MHSA

Jim Lodge '87 MBA

Jeff Mirasola '90 BS

Caleb Navarro '05 BS, '08 MS

Alberto Pino '06 BA, '06 BS

Tim Polson '98 BS, '03 MBA

Graham Rossini '02 BS, '11 MBA

Travis Snell '00 MPA

Members of the board of directors are members of the National Alumni Council.

Josh Meibos '11 MPE physical

education was named Arizona Teacher of the Year 2018 by the Arizona Educational Foundation. Meibos, in his seventh year as a physical education teacher at David Crockett Elementary School in Phoenix, was awarded \$15,000 and a trip to the White House to meet with the president.

Joseph Passamani '11 JD

has joined the Silverman Law Office in Helena, Montana. The summa cum laude graduate of the Sandra Day O'Connor College of Law had previously worked for a transactional and business firm in Florida where his specialty was commercial and residential real estate transactions, business acquisitions and business development, estate planning, and corporate transactions.

Kathleen Winter '11 MFA

creative writing has authored a winner of the 17th annual Elixir Press Poetry Awards. Judge Bob Hicok says of "I Will Not Kick My Friends: Poems" and the author: "Kathleen is unusually attuned to the intersection of the imagined and the common place. She weaves her loves — personal, artistic, intellectual — into her daily life, making this a book of passionate intimacies. This is a wonderful book."

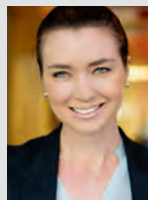
Douglas Manuel '10 BA

creative writing has written his first book, "Testify," reviewed by award-winning poet and Guggenheim fellow David St. John as "a brave, brilliant debut about the African-American experience in the American Midwest," and "a book of elegiac ambivalence; (the) speaker often finds himself trapped between received binaries: black and white, ghetto and suburban, atheism and Catholicism."

Fernando Pérez '10 MFA

creative writing has produced a dynamic debut collection, "A Song of Dismantling: Poems." In his work, Fernando — a regular contributor to Crab Orchard Review, Más Tequila Review,

Exquisite Corpse, and Hinchas de Poesia — explores how migration affects relationships between people of different generations.

2000s

Stephanie (Smith) Mitrovic '09 MArch architecture is the new science and technology studio leader for

SmithGroupJJR, one of the nation's largest design firms. In her role, Stephanie will cultivate the studio, maintain client relationships and build new avenues to connect with future clients. Previously, she served as SmithGroupJJR's lead interior designer.



Katherine Palmer '09 MM performance, '13 MA ethnomusicology, '13 DMA

performance, the museum educator at the Musical Instrument Museum in Phoenix, is the new executive director of the Daraja Music Initiative. DMI, formerly Clarinets for Conservation, is a nonprofit providing an interdisciplinary approach to sustainability through music education.

Katherine is also a faculty associate in ASU's Herberger Institute for Design and the Arts.



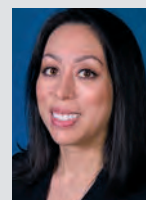
Heather Dreblow Townsend '09 BS accountancy has opened Townsend Financial, a

virtual financial planning firm. The fee-only advisory practice works virtually with Generation X/Y professionals seeking advice on services such as retirement planning, risk management, college savings, cash flow, debt

management, work benefits, and estate and incapacity planning.

Joey Eschrich '08 BA film and media studies, '11 MA gender studies

has joined Ed Finn, ASU assistant professor in the Department of English/School of Arts, Media and Engineering, as co-editor of "Visions, Ventures, Escape Velocities: A Collection of Space Futures." Featured narratives use the economic and social history of exploration, as well as current technical and scientific research, to inform scenarios for the future of the "new space" era.



Nicole Zoe Garcia '08 MPA public administration

has been appointed director of jury services for the

Superior Court of Arizona in Maricopa County. She now oversees all jury operations for the superior court, as well as the summoning for all county justice courts, most of the municipal courts in Maricopa County and the state and county grand juries.

Samantha N. Winter McAlpin '08 BA English literature, '08 BA Spanish, '08 BA history

has joined Gust Rosenfeld PLC as an associate in the firm's litigation group. A summa cum laude graduate of ASU's Barrett, The Honors College, she brings litigation-claims experience involving trustees, personal representatives, beneficiaries and the exploitation of vulnerable adults.

When can you start?

Interview tips to help you land your dream job

Your resume and LinkedIn profile can get you in the door, but landing that dream job will likely come down to how well you interview. The right preparation can definitely boost your confidence and also serve as a reflection of your interest, so do some research on the company or organization you're meeting with. Take some time to think about possible questions and what your answers will be.

Here, we share some common interview questions and strategies you can use.

Tell me about yourself.

A solid response can lead the conversation

in a direction that allows you to elaborate on your qualifications. While this seems like a piece of cake, it can be difficult to answer effectively because it is so broad. The important thing to remember is that you should respond with your strongest selling points for the position, including your education, professional experiences and most important qualities.

What are your strengths and weaknesses?

This is your opportunity to showcase your strengths. Give concrete examples. Be honest in describing areas where you want to improve (i.e., weaknesses), and be sure to describe how you are working to improve them.

Where do you see yourself in five years?

Show some ambition. It's OK not to know all of your goals moving forward, just be honest with how you hope your career will progress and what skills you want to develop.

Why do you want to work here?

Show what you know about the organization; do some advance research.

Why did you leave your last job?

Always bring up the positive attributes of your previous employment, even if it was not always a positive experience. Avoid criticizing previous employers in an interview.

Besides being ready to answer questions about yourself, it's a good idea to have some questions in mind for the interviewer. It's a way to demonstrate genuine interest and enthusiasm. Ask about the company's culture, opportunities for advancement or what the interviewer's favorite part about his or her job is.

ASU's Career and Professional Development Services offers coaching and resources to you for free, for life. To learn more about the tools available, visit asu.edu/career.

David L. Biscobing '07 BA journalism and mass communication has been recognized, along with his ABC-15 team, with a prestigious Alfred I. DuPont—Columbia University Award for “Cash for Compliance,” a “relentless investigative series (that) exposed an audacious group of litigators who exploited the Americans with Disabilities Act for profit,” according to the committee. Biscobing joined ABC-15 in 2008; his stories have won a national Emmy, a Scripps Howard Award and nearly two dozen regional and local honors.

Todd Fredson '07 MFA creative writing is the translator of Josué Guébo's collection of serial poems, “Think of Lampedusa.” The book addresses the 2013 shipwreck that killed 366 Africans attempting to migrate secretly to Lampedusa, an Italian island in the Mediterranean Sea. Within the pages of “Lampedusa,” author Guébo explores what motivates a person to become part of what he calls a “seasonal suicide epidemic.”

Whitney M. Harvey '07 BS accountancy, '10 JD has joined the firm of Gust Rosenfeld PLC, as an associate in its litigation group. Focused on municipal liability, insurance defense and general civil litigation, Whitney was designated a “Southwest Rising Star” from 2014 to 2016 by the Super Lawyers rating service of outstanding lawyers.

Ryan S. Hilbun '07 BSA aviation maintenance management has completed eight years as a chief warrant officer 2 in the United States Army. He was an OH-58 pilot most recently stationed at Fort Riley, Kansas.



Talonya Adams '06 JD has been elected 2018 chair of the seven-person City of Phoenix Board of

Adjustment following her tenure as the board's vice chair. Talonya is the founder of and a business attorney at 1700 West Law, a boutique firm serving entrepreneurs, small and microbusinesses, and capital market participants in the areas of business and corporate law, international trade and government affairs.

Fatma AlHaidari '06 MA English; '12 PhD rhetoric, composition and linguistics, has authored “The Discourse of Business Meetings: Agency and Power in Financial Organizations.” The book examines the social organizational discourse of task-oriented business meetings in a Kuwaiti financial organization and an American nonprofit trade organization.

Katie Cortese '06 MFA creative writing, whose stories and essays have appeared in journals such as Blackbird, Gulf Coast and Day One, has authored “Make Way for Her: And Other Stories,” reviewed as “an affecting and unusual exploration of the bittersweet rewards of offering, receiving and returning love as imperfect human beings.” Katie is also the author of “Girl Power and Other Short-Short Stories.”

Jonathan Grindell '06 MSTC global technology and development has opened a sole proprietorship in the state of Washington, Solidarity Legal. Jonathan will focus his practice on “harm reduction, prison abolition and stemming the tide of mass deportation.”

Elizabth Hiscox '06 MFA creative writing has published her debut poetry collection, “Reassurance in Negative Space.” One online review says

of Elizabeth's effort: “By turns ecstatic and somber, profane and sacred, wise and whimsical, Hiscox proves she is a poet of the first order with this memorable collection.”

Christopher O'Neil '06 BA English literature has been appointed to the Pinal County (Arizona) Superior Court by Arizona Governor **Doug Ducey '86 BS finance.** Chris was previously presiding judge for the Casa Grande (Arizona) Municipal Court. A summa cum laude graduate of the W. P. Carey School of Business, he has also served as a staff attorney for the Pinal County Superior Court. **Celeste Plumlee '06 BA sociology, '13 MSW social work, '13 MPA public administration** has been appointed executive director of Tempe Neighbors Helping Neighbors, a grassroots, membership-based nonprofit founded in 2009 to enable adults to remain in their homes as they age.

Michelle Acosta '05 BSD architectural studies has received the prestigious 2018 Young Architects Award from the American Institute of Architects. The award recognizes industry professionals who have been licensed 10 years or fewer and have shown “exceptional leadership and made significant contributions to the profession,” says the national institute. At SmithGroupJJR in Phoenix, Michelle is a health care project manager currently overseeing the Salt River Pima Maricopa Indian Community Northeast Ambulatory Care Clinic and the campus master plan for the University Medical Center of Southern Nevada.

John D. Gibson '05 BS business administration, '10 MBA, southern Arizona regional bank president for Wells Fargo and a member of the ASU Alumni Association board of directors, has been elected to the Valley of the Sun United Way

board for 2018. John has been recognized with a “40 Under 40” award by the Tucson Chamber of Commerce and has held several leadership roles with Wells Fargo since joining the company in 2005.



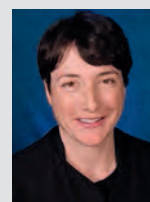
Courtney L. Klein '05 BIS interdisciplinary studies, '10 MNPS nonprofit studies,

co-founder and CEO of nonprofit social entrepreneur incubator Seed Spot, has announced plans to expand to 50 more communities across the U.S. Since 2012, she and Seed Spot have worked with more than 500 companies, creating more than 1,000 jobs and raising more than \$10 million in capital funding.



Ryan McEnroe '05 BSD architectural studies has been recognized with the 2018

American Institute of Architects Young Architects Award. In recognizing Ryan, AIA noted, “Through his energy and thoughtful outreach on a national level, (he) has empowered the next crop of architect leaders. Leading by example through countless volunteer hours, he has instilled in design professionals a drive to strengthen the profession and better serve society.”



Sara Agne '04 BA journalism has been appointed to the Maricopa County Superior Court by Arizona

Governor Doug Ducey '86 BS finance. A magna cum laude graduate of the Cronkite School of Journalism and Mass Communication who served as editor in chief of the ASU

What's your perspective?



Shaunté Glover '11, bachelor of fine arts in photography. A rising storyteller, she is a visual artist specializing in photo and film. See more of Shaunté's work online at shaunteglover.com.



Hannah Manuelito '17, bachelor of fine arts in photography. Hannah works as a photographer for ODX, a Native-owned clothing line based in Chandler, Arizona. See more of Hannah's work online at hannahsreverie.wordpress.com.

Recent ASU grads specializing in photography catch up with fellow alumni for a lens-like view a few years after graduation

For photographer Shaunté Glover, perspective is everything.

The ASU alumna loves to tell the stories of people she finds interesting, especially in the downtown Phoenix community.

She says taking a variety of courses at ASU — both technical skills and conceptual art — has made her a stronger storyteller.

On the following pages, she and fellow photographer Hannah Manuelito share their photos of recent graduates and the advice for new grads these alumni shared.

Glover's advice?

"If there's something they want to do, just stick to it," she says. "It might take a while, it might take longer than this plan they have in their head after graduating. If you stick with it, it will happen."

student-produced State Press, Sara is a partner in the special litigation and compliance practice group at Snell & Wilmer. She is a member of the Arizona Supreme Court Advisory Committee on Rules of Evidence and of the State Bar of Arizona Civil Practice and Procedure Committee.

Kevin S. Krahenbuhl '04 BAE secondary education (history), '09 MLS liberal studies has authored "The Decay of Truth in Education: Implications and Ideas for its Restoration as a Value." Says Cambridge Scholars Publishing of "Decay": "(The book) presents a compelling case that documents how educational institutions and political institutions alike have abandoned truth as a primary virtue." The targets of Kevin's critique range across political, religious and social groups.



Eric Fierro '02 BS justice studies has been promoted to partner at Keller Rohrbach LLP. Eric

oversees the legal technology group, providing electronic discovery and litigation support to colleagues and clients on a wide array of cases. Prior to joining Keller Rohrbach, he was a managing consultant for Huron Consulting Group and has been a featured speaker, panelist and presenter at national and regional conferences.

Joey (Blackburn) Fordyce '01 BA communication recently took the stage in the first-ever TEDxED Talk in Ukraine, one of her many stops as an English Language Fellow for the U.S. State Department. Her topic, "Improv to Improve Speaking in EFL Classrooms," is the latest highlight of her work with the fellows program in the Ukraine's Odessa region since August 2016 — she has worked with Internationally Displaced Youth in the Microscholarship program; facilitated a nationwide



HANNAH MANUELITO PHOTO

Ethan Rhoads '17, bachelor of fine arts in photography. Ethan is an assistant preparator at the Scottsdale Museum of Contemporary Art and a gallery attendant at ASU's Art Museum.

Best piece of advice to those graduating now: "Go get it; just plain try hard. Staying connected to school, making a point to network at events, applying early and often; all of these things should come easy if you majored in something you enjoy."

media literacy MOOC project; conducted teacher-training and professional development workshops; led best-practices training for critical thinking, creative thinking, board work and student voice; and more.

Natalya Shkoda '01 MM performance, '06 DMA solo performance has released her fourth solo CD album, "Tchaikovsky: Les Saisons, Op. 37B and Album for the Young, Op. 39." The Ukrainian-born concert pianist is a recording artist, artistic director of the Earl R. and Marilyn Ann Kruschke Prize in Piano Performance Competition, and is considered to be one of today's most dynamic young artists, master teachers and competition adjudicators.



Kimberly Yee '01 MPA public administration, a member of the Arizona Senate representing

District 20 since 2013, has been selected a member of the 2018 GOPAC Legislative Leaders Advisory Board. Kimberly has worked for California Governors Pete Wilson and Arnold Schwarzenegger and also served as communications director for the state treasurer of Arizona.

Tayari Jones '00 MFA creative writing has authored "An American Marriage," a stirring love story that is reviewed as "a masterpiece of storytelling, an intimate look deep into the souls of people who must reckon with the past while moving forward — with hope and pain —

into the future." Her most recent scribe follows "Leaving Atlanta" and "The Untelling," winners of the Hurston/Wright Legacy Award and the Lillian C. Smith Awards, respectively.

Nate Rhoton '00 BS economics has been named executive director of One-N-Ten, a not-for-profit dedicated to serving and assisting LGBTQ youth. Nate joined One-N-Ten in 2015 and will now oversee programs and a handful of satellite centers across Arizona. A Valley Leadership grad and a Flinn-Brown Leadership Fellow, Nate is the recipient of the Mayor Phil Gordon Community Spirit Award, the Neil Giuliano Alumni Award and the One Community Foundation Local Hero's Award.

1990s



Jason T. Eberl '98 MA philosophy, author of a pair of recently published books —

“Contemporary Controversies in Catholic Bioethics” and “The Philosophy of Christopher Nolan” — has been appointed a professor of health care ethics in the Albert Gnaego Center for Health Care Ethics at St. Louis University. Jason’s research interests are in beginning-of-life issues, end-of-life care, health care allocation and the philosophy of human nature and Thomism.



Rigoberto Gonzalez '97 MFA creative writing has published his third memoir, “What Drowns the Flowers in

Your Mouth,” a powerful and moving portrait of a complex and troubled family and of memory and regret. “Rigoberto looks back not in anger but with great generosity of spirit,” says Guillermo Reyes, author of the award-winning “Madre and I.” Author of 17 books of poetry and prose, Rigoberto is a contributing editor for Poets and Writers Magazine and is on the board of trustees of the Association Writers and Writing Programs.

Tracy Leonard-Warner '94 BMUS musical therapy, '11 MHI health care innovation has been named executive director of Ryan House, a greater Phoenix nonprofit providing care and programs for children and families navigating life-limiting or end-of-life journeys. In her new role, Tracy will serve as the organization’s chief fundraising and administrative officer. Prior to joining Ryan House in 2017, she led an interdisciplinary health care team for Hospice of the Valley for five years.

Tony Garcia '95 BSD architectural studies, winner of the 2014 Young Architect of the Year award from the San Diego chapter of the American Institute of Architects, has been named one of the organization’s 2018 Young Architect of the Year national awardees. A founding partner of San Diego’s Asquared Studios, Tony is principal in charge at Asquared, designing, managing and overseeing the construction of commercial and residential projects. A regular guest critic and mentor, he also leads exercises for youths focused on architectural practice and techniques for the Built Environment Education Program, San Diego.



Stacy A. Miller '95 BS physics has been awarded the Minnesota Solar Energy Industry Association’s

Ralph Jacobson Lifetime

Achievement Award for her contributions to the state’s solar industry. She is a solar policy specialist for the Minnesota Department of Commerce and has been with the agency since 2006.



Raúl A. Monreal III '95 BS computer science has been honored with the 2017

Horquilla Award, presented by the ASU Los Diablos Latino Alumni for his contributions to the advancement of the Los Diablos chapter, including his fundraising work in support of undergraduate scholarships at ASU. He is also the 1998 ASU Founders’ Day Young Alumni Achievement Award winner. Monreal is a senior program manager at General Dynamics Mission Systems.



Mike Marden '94 BS architectural design recently celebrated his 15th year as principal architect at

WDS Architecture, a firm he launched in 2002. Mike has more than 20 years of experience as an architectural design professional, including professional roles in residential and commercial design, production and build; construction project management; and executive leadership.



Neil Russell, '94 BS management, currently vice president of investor relations and communications

for food-service distributor Sysco, has been named treasurer of Kids’ Meals in Houston, a 501(c) 3 first responder to children ages 5 and under who face debilitating hunger due to extreme poverty. In his role at Sysco, Neil serves as the chief



SHAUNTE GLOVER PHOTO

Anna Haney '13/'16, bachelor’s degree in criminology and criminal justice/master’s degree in criminal justice. Anna is a program coordinator at the Arizona Criminal Justice Commission.

Best piece of advice to those graduating now: “Go after it! The time post-graduation can sometimes feel like you’re on a roller coaster of emotions. Always remember your purpose.”

ASU alumni pay it forward

ASU Alumni contributing members make a difference in the lives of the next generation of Sun Devils. Nearly 2,000 Class of 2018 grads support ASU through contributing memberships. alumni.asu.edu/membership

New Gold-level alumni members

Mary M. Hentges '81 BS
 Mark H. White '82 BS
 David M. Svob '82 BSCJ
 John W. Greco '82 MS
 Russell T. Fiorenzo '82 BA
 Leland A. Henderson '62 BS
 James R. Lodge '87 MBA
 David A. Regoli '88 BA
 Kimberly F. Thurston '88 BS
 Paula L. Lodge '91 BA
 Margaret A. Pagnillo '93 BS
 Peter J. Olson '93 BS
 Daniel J. Pagnillo '93 BS
 Rao Sathureddy '94 MS
 Michael A. Marden '94 BSD
 Amanda K. Clague '96 BS
 Catherine M. Borgia '74 BS
 Jeffery S. Zinn '99 MSTC
 Christina O. Hernandez '04 BS
 Bradlee H. Rideout '03 BA
 Hector J. Lopez '07 BS
 Brandy L. Rideout '06 BLS
 Laura Saavedra '03 BAE
 Beth M. Ranney '04 BS
 Ignatius L. Jackson '06 BS
 Cheryl J. Kline '04 BSN
 Aimee R. Vondrak '09 BA
 Freddy A. Saavedra '09 BSA

Kryslen S. Holt '13 BA
 Joseph B. Ranney '13 BIS
 Shannon E. Bohrn '13 BS
 Levi D. Surls '14 BA
 Margery J. Reynolds '15 BS
 Greg S. Nedwetzky '15 BA
 Eric B. Potter '15 MS
 Christopher T. Carlson '15 BSE
 Warren S. Gorowitz '16 EMSL
 Daniel L. Paredes '17 MENG
 Regina T. Villafior '17 MS
 Brenden G. Hawn '17 BA
 Christine E. Bishop '17 BS
 Gregory C. Diamond '17 MBA
 Ryan A. Boyd '17 BS
 Vanessa L. Poe '17 BS
 Matthew W. Campbell '17 BS
 John D. Claric '17 BSE
 Tharon S. Mills-Vigoreaux '17 MED
 Stephanie A. Deskins '17 BS
 Radha R. Sadhu
 Joan L. Braun
 Miss Nadia Claric
 Andy G. Borgia
 Stanley R. Clague, II
 Peter B. Braun
 Stacie Marden
 Lyn White

New Maroon-level alumni members

Susanne M. Gauthier '82 BSN
 William B. Cassidy '83 BS
 Robert K. Richardson '84 BSE
 Alice Coronado-Hernandez '84 BSN
 Jacqui H. Penner '84 BS
 John P. Stransky '85 BSE
 Holly L. Barrett '86 MBA
 Karen D. Stransky '86 BSE
 Paul A. House '89 BS
 Cindy J. Andrews '92 BA
 William D. Broome '72 BA
 Albert L. McHenry '76 MS
 Arblee Bishop '68 BAE
 Nancy L. Dickson '75 BS
 James W. Skelton, Jr. '68 BS
 Jay A. Soloff '73 BAE
 Kathleen H. Dewey '73 BAE
 Daniel Campos '77 BA
 Gary R. Gauthier '78 BS
 Robert C. Szabo '97 BA
 Tiffany A. Schomaker '04 BSD
 Michael J. Gilley '00 BS
 Lisa A. Carey '02 BIS
 Brian C. Schomaker '06 BS
 Bryan Lightfield '05 BS
 Carter T. Tappan '06 BS

Matthew D. Byrne '10 BS
 Tonia M. Rogers '11 BS
 Margaret M. Moes De Zamora '07 BSN
 Mary Beth Reisinger '12 MBA
 Robert A. Celaya '12 BA
 Catherine A. Mauk '13 MSW
 Joseph K. Martin '14 BA
 Kellie J. Tefft '15 MED
 Marlinda S. Perez '15 MAS
 Ryan E. Tefft '15 BA
 John A. Simas '16 BS
 Liam A. Makowski '16 BS
 Ryan N. Jones '17 BSA
 Chauncey A. Beck '17 BS
 Don Colt '17 MA
 Olivia A. Schertz '17 BA
 Michelle L. Marzen '17 BS
 Darryl L. Chinn '17 BA
 Tangie Roberts
 Conor J. Makowski
 Junette C. West
 Daniel Rogers
 Anastacia Celaya
 Paula C. Richardson
 Barbara Bogar
 Carol M. Shockley

communications and public affairs officer for the global food distribution leader.



Russ Sanders '92 BSD architectural studies, '97 MArch architecture has been

promoted to workplace studio leader at SmithGroupJJR, one of the nation's largest design firms. Russ will oversee the studio's project delivery and business development efforts throughout the Southwest U.S. region while continuing to work with clients such as the City of Phoenix, Caterpillar and the City of Eloy (Arizona).



Deanna M. Villanueva-Saucedo '91 BA psychology, '02 MPA public admin-

istration has been chosen Mesa (Ariz.) Woman of the Year by the Mesa Citizen of the Year Association for her distinguished record of volunteer service in educational, community-based and human service organization areas. She boasts a distinguished career working for the City of Mesa and the Mesa Public Schools and currently serves as the community engagement director for the Maricopa Community College District.

1980s



Richard C. Daniel '88 BS physical education, '91 MED higher and adult education, '01 PhD education leadership and policy studies, a three-degree Sun

Devil, has been appointed CEO of College Success Arizona, a nonprofit working to increase the post-secondary attainment rate of students in Arizona, particularly for those who otherwise would not be able to attend or graduate. A native of Superior, Arizona, Richard has a long history of working to improve education outcomes for students, particularly first-generation and low-income students. His most recent position was as vice president for institutional advancement for Saint Michael's College, in Burlington, Vermont. He has also held leadership positions with the University of Texas at El Paso, South Mountain Community College in Phoenix and ASU.

Daniel Adelman '87 JD has been named executive director for the Arizona Center for Law in the Public Interest. The long-time ACLPI board member will steer the nonprofit law firm in high-profile contests for public education funding and the safety of foster care children. "Danny possesses and embodies the rare combination of exceptional legal skills, tenacity, strategic vision and compassion (to fight) for social justice through effective legal advocacy," says ACLPI.

Jim E. Warne '87 BS physical education has been named Native American Alumnus of the Year by the ASU Native American Alumni Chapter in recognition of his contributions within Indian Country, including his Warrior Society Development youth football camps, which he has staged across the U.S. and in Canada. As a Sun Devil (1984–86), Warne played football for ASU and is a member of the American Indian Athletic Hall of Fame.

Tom Liguori, '86 MBA is the new chief financial officer at Phoenix-based global electronics components and services leader Avnet. A summa cum laude graduate of W. P.



HANNAH MANUELITO PHOTO

Megan Smith '17, bachelor's degree, fine arts, in photography. Megan works as an art teacher at BASIS Scottsdale charter school and as a freelance photographer.

Best piece of advice to those graduating now: "It's OK to be scared. But follow your dreams and don't be afraid to put yourself out there and to make connections."

Carey School of Business, Tom has more than 30 years of finance and operations experience, including, most recently, three years as CFO of Advanced Energy, a Phoenix-based diversified global business delivering advanced power and control technologies to customers across a broad range of industries.



Julie Zucchini '86 BS advertising has joined Faciteq in Phoenix as an account manager,

responsible for the sale of office furniture and architectural interior products and services to a variety of industries, including health care, education, government, corporate and hospitality.

Nate Kipnis '85 MArch architecture has been named co-chair of the American Institute of Architects' National 2030

Commitment Working Group. In his role with the AIA committee, Nate will work with architects to encourage the industry's professionals to design toward carbon-neutral buildings and developments by 2030. Founder and principal of Kipnis Architecture and Planning in Chicago, Nate is a member of the College of Fellows of the AIA, recognized for his "significant contributions to the profession and society on a national level."



John "Chip" Wright '85 BS finance has completed a term on the nonprofit Regional Center of

Orange County (Calif.) board of directors. He is currently executive vice president with the commercial real estate firm CBRE in Newport Beach, California. The center also has announced Chip's election to serve as board treasurer.

Lois Roma-Deeley '84 BA journalism, '88 MFA creative writing has produced "The Short List of Certainties," winner of the Jacopne da Todi Poetry Book Prize. A collection of poems on beauty, love, tragedies and kindness, "Short List" has been called a "tour de force" and "a curious blend of authority and self-doubt that marks our best poets," by Pulitzer Prize finalist and former Vermont poet laureate Sydney Lea.

Christine Burton '82 BS economics, '85 MPA public administration has been appointed by Arizona Governor Doug Ducey '86 BS finance as the newest public member of the Arizona State Board of Education. Says Governor Ducey: "She brings a wealth of knowledge on education policy issues through her philanthropic work ... her perspective as a parent is invaluable to the board." Burton currently serves on the boards of a number of foundations and nonprofits,

including the ASU Foundation's Women in Philanthropy.

Demetria Newman '81 BS advertising is an entrepreneur who has built her own marketing companies and recently published "The Beauty Enigma: The Art of Ageless Beauty from the Inside Out." Says Holly Fine, Emmy Award-winning producer of "60 Minutes": "(She) shares with us her vast knowledge of beauty and the connection of body, mind and the universe with an informative and yet very personal writing style."

1970s



Dana G. Abbott '78 BS geography has been honored with the Grand Masters Cup for his expertise in

and dedication to martial arts. The website centurymartialarts.com says of the "shihan": "This story could be the plot of a martial arts action movie — a young man from Arizona dreams of learning swordsmanship, sets off for Japan to follow the same path as the Samurai warriors from centuries past and studies under one of the world's premier masters to emerge decades later as a master in his own right."

Jeanne Maxan (Shimizu) Blanchet '87 MA art education, author, lecturer, artist and composer, has authored "Cursed: A Novel of Bravery and Betrayal in Rome's Final Century." The historical fiction work takes place as Christianity has been declared the official state religion of Rome in 394 A.D., following the adventures of the story's characters against the backdrop of the fall of the Roman Empire, the rise of Christianity and the mass migrations that took place in Europe during those turbulent times.

Showcasing ASU innovation

Founders' Day

Since 1964, Founders' Day has showcased ASU's evolution as the top innovative university in the country. This signature event honors alumni, faculty and university advocates whose efforts have advanced groundbreaking research, distinguished service and visionary philanthropy.

For more information and videos on Founders' Day 2018, visit alumni.asu.edu/events/founders-day



The Fulton family

Ira A. Fulton, second from left, with son Doug, daughter Lori and late wife Mary Lou. The Fulton family has been honored with the 2018 Founders' Day "Philanthropist of the Year" award from the ASU Alumni Association.

Fred Van Etten '77 BS general business administration, former president of Scottrade Equipment Finance, has joined Midland States Bancorp Inc. in a similar role where he will direct the company's equipment finance business in an expansion of its loans, leases and hybrid products. Fred helped found Scottsdale Bank Equipment Finance in 2012 and served as its president until the \$4 billion sale of Scottrade to TD Ameritrade in September 2017.



Ross Kremsdorf '76 MA psychology, '78 PhD psychology, a professional veteran of 40

years of service as a community mental health administrator and psychologist, is retiring to complete a self-help book he has in the works, and to continue his volunteer work providing counseling services and supervising interns at a local agency in Cambria, California.

Ross developed innovative treatment programs and received a variety of awards for recovery-oriented services following his doctoral degree from ASU.



Stephen E. Adams '74 accountancy has been selected Mesa, Arizona "Man of the Year" by the Mesa Citizen of

the Year Association. A well-known civic leader, community volunteer and businessman, he

has served on a wide variety of community nonprofit boards, assuming leadership roles and helping to raise hundreds of thousands of dollars in scholarship and facilities support at Mesa Community College.

Lawrence F. Lihoi '74 BS sociology has published "Travels in South America" and its artistic companion, "Slacker's Confession: Essays and Sketches." His literary work, including 11 published books, is eclectic and features poetry, short stories, travel essays, memoirs, history and how-to. In



Nancy Gonzales, PhD

1984 ASU graduate was honored with the 2018 Founders' Day Faculty Research Achievement Award.



Gerald Heydt, PhD

ASU Regents' Professor was honored with the 2018 Founders' Day Faculty Service Achievement Award.



Ariel D. Anbar, PhD

ASU President's Professor was honored with the 2018 Founders' Day Faculty Teaching Achievement Award.



Robert Page Jr., PhD

ASU Provost Emeritus was honored with the 2018 Founders' Day James W. Creasman Award of Excellence.



Sambo "Bo" Dul

Three-degree ASU alumna was honored with the 2018 Founders' Day Young Alumni Achievement Award.



Missy Farr-Kaye

Reigning Pac-12 Women's Golf Coach of the Year was honored with the 2018 Founders' Day Alumni Achievement Award.

"Travels," the author, his wife and sister-in-law embark on a six-month odyssey across South America, traveling by plane, jeep, hydrofoil, dugout canoe, horse, ox and on foot, crossing the Andes, the Chala Desert, a flooded Bolivian savannah and the Pampas.

1960s

Les Schiefelbein '68 BS marketing, '71 JD has been elected CEO and vice chairman of the Silicon Valley Arbitration and Mediation Center. In this role, Schiefelbein will lead SVAMC's

initiatives to advance arbitration and mediation for dispute resolution in technology matters. Les is founder of Schiefelbein Global Dispute Resolution, bringing more than 30 years of experience as a corporate lawyer in resolving international and domestic legal and business matters to the practice of dispute resolution.

1940s

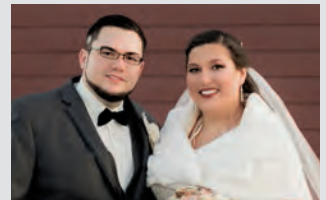
Calvin C. Goode '49 BS business administration, '72 MAE counseling psychology celebrated his

90th birthday in January while working to preserve and restore the Carver Museum and Cultural Center in Phoenix, site of his alma mater, Phoenix Union Color High School. Calvin, was elected to the Phoenix City Council in 1972 and served for 22 years, longer than any other council member in history. He heads a committee in the \$5 million restoration of the museum and center.

Stay in touch

Be a current Devil and stay connected. It takes just two minutes to complete a quick online update that will keep you in the know with ASU Thrive magazine, exclusive invites to special events and more. alumni.asu.edu/update

Sun Devil weddings



Elizabeth (Wilcox) Cavaliere '10 BA design studies and **Christopher Cavaliere** were married on Jan. 7 at The Barn at Gibbet Hill in Groton, Massachusetts.



Leah (Bloom) Miller '14 BIS interdisciplinary studies and **Michael Miller '10 BS communication** were married March 19, 2017, on Hilton Head Island, South Carolina. The couple met 10 years earlier while working as student interns at Hillel Jewish Student Center at ASU.

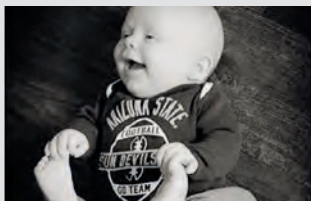


Samantha (Valtierra Bush) Melbourne '12 BA journalism and mass communication and **Preston Melbourne** '12 BA journalism and mass communication, both Cronkite School graduates, were married on Nov. 4, 2017, in New Almaden, California.

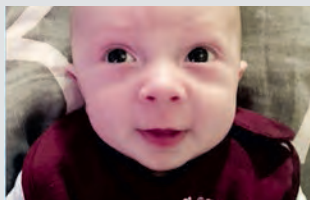


Ben Peterson '12 BS manufacturing engineering technology and **Alexa Peterson** were married in San Clemente, California, on July 15, 2017. The couple met while surfing Ocean Beach in San Diego and now make the city their home.

Sun Devil births



Rhett Alexander Benver provided parents **Jordan (Jacob-Gorman) Benver** '14 BIS interdisciplinary studies and **Jared Benver** '15 BS psychology with an early Thanksgiving prize, coming into the world on Nov. 7, 2017.



Henry Alan Delk was born to **Elise Delk** '08 BS accountancy, '09 MACC accountancy and **Kenneth Delk** '08 BS finance on Dec. 2, 2017, in Sacramento, California. Henry is the couple's first child.



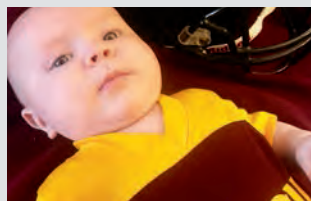
The ASU Thrive new year's issue did not include **Ezra Mendel Gibbs'** debut photo, courtesy of parents **Rachel (Fisher) Gibbs** '11 BS marketing and **Andrew Gibbs** '11 BA political science. Ezra is now "official," born Sept. 8, 2017, in Scottsdale, Arizona.



Carlo Gibney was born to **Alexandra M. Gibney** '12 BAE early childhood education and **Dennis C. Gibney** '04 BA communication on April 26, 2017, and lives with his parents in Scottsdale, Arizona.



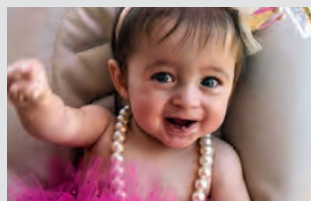
Liam Edward Law was born to Sun Devil duo **Carrie (Houghton) Law** '04 BA journalism and mass communication and **Matt Law** '03 BS industrial technology (information technology) on Sept. 1, 2017, in Mesa, Arizona.



Thomas Pickering was born Aug. 4, 2017, in Scottsdale, Arizona, to **Taylor Pickering** '12 BS exercise and wellness and **Elizabeth Pickering**.



Clark Jeffrey Taylor was born to **Katie (Gardiner) Taylor** '08 journalism and mass communication and **Jeff Taylor** on Jan. 24, 2018, in Mission Viejo, California.



Rose Marie Walker celebrated her first birthday, born on Nov. 22, 2016, in Walnut Creek, California, to **Michelle (Dayton) Walker** '09 BSN and **Chris Walker** '10 BS kinesiology.

— Stephen Des Georges '14 MAIS

Improv Wisdom

by **Patricia Ryan Madson**

This book introduces the reader to the practice of improvisation as a critical tool for everyday life. *Improv* teaches us how to listen, respond, adapt, generate new ideas and be fully present in the moment. *Improv* can make you a better colleague, a more productive member of a team and a better parent or friend. The ability to be improvisational can help you get through a job interview; kick off a collaborative team meeting; write a song or story; or simply pay attention to the world around you in ways that enrich your life.

The Rise

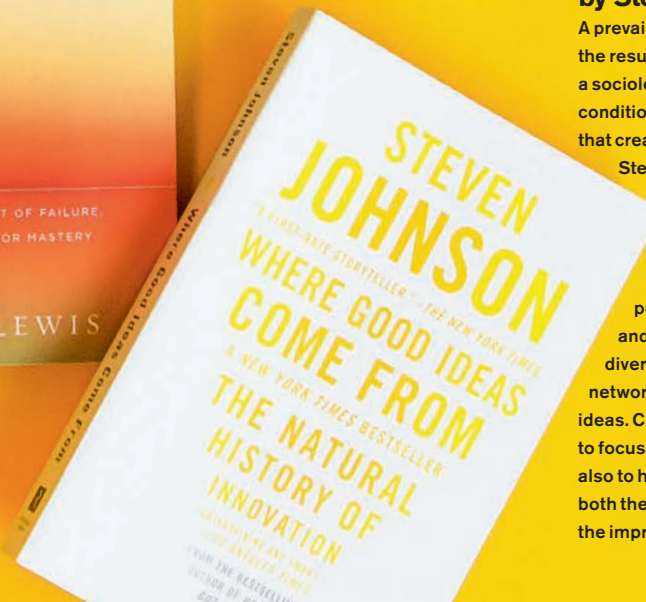
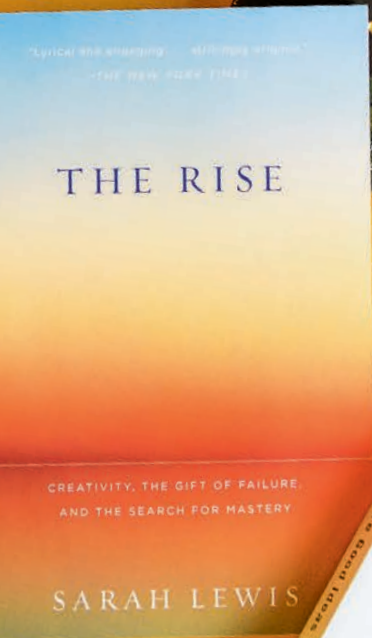
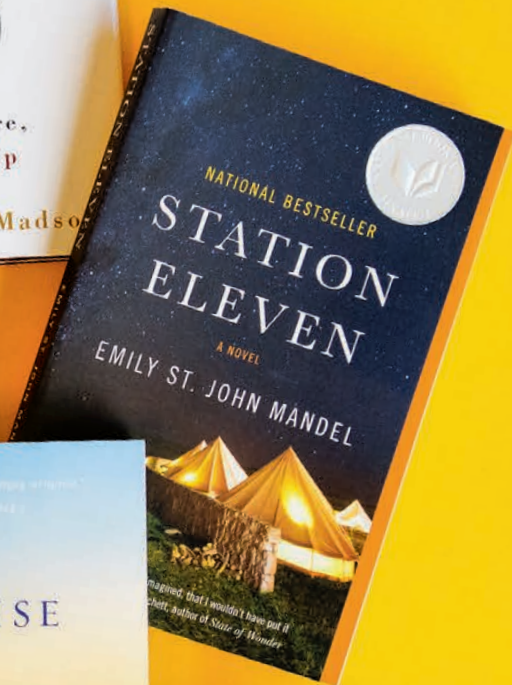
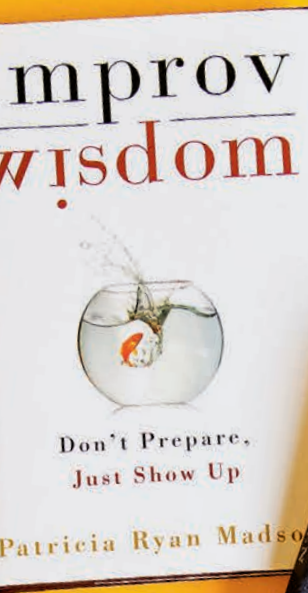
by **Sarah Lewis**

So much of our creativity is constrained by our natural impulse to avoid failure — to play it safe. But all extraordinary creativity comes from taking risks — pushing yourself to think or respond to the world in ways that are not yet tested. So failure must become normal and expected. We must be resilient in the face of failure and learn how to respond, iterate, improve and advance. *The Rise* is a road map to bold and fearless creativity.

4 inspiring reads to support your creative growth

By Steven Tepper, Dean,
Herberger Institute for Design and the Arts

We are living in a creative age. The economy increasingly relies on the intellectual output of creatives, with growing demand for well-designed products as well as compelling stories and experiences (film, music, television, games, etc.). The top 1,500 U.S. CEOs report that creativity is the number one quality they are looking for in new graduates. And, in a world of accelerating and often disorienting change, creativity is critical for adapting and innovating, not only for individuals throughout their lifetimes but also for companies and organizations seeking to remain relevant. So, here are three book suggestions to help you think about developing your own creativity and imagination, as well as one book of fiction that talks about the importance of art in a world where everything familiar is lost.



Where Good Ideas Come From

by Steven Johnson

A prevailing myth is that creativity is the result of the lone genius. But, as a sociologist, I have studied the conditions that make it more likely that creative ideas will emerge.

Steven Johnson provides a great review of what environments lead to breakthrough ideas — places where serendipity is possible; places where fields and disciplines come together; diverse teams, distributed networks; time for incubating ideas. Creative people need not only to focus on their own inspiration but also to help create the spaces where both they and others can achieve the improbable.

Station Eleven

by Emily St. John Mandel

This is a work of fiction that examines a future world where a flu pandemic has wiped out most of civilization. Nothing is the same. What I find so compelling about the story is that it centers around a group of traveling actors who bring theatre to people in small makeshift towns. If we were to return to a tribal existence with no technology and no market economy, what might be the role of the artist? If we can imagine their value in a world with nothing, why can't we fully imagine their value in today's world of abundance?

Your new license to give

Your purchase of the new ASU license plate directly supports the ASU Alumni Association's signature scholarship initiative, the Medallion Scholarship, with \$17 of the \$25 fee going to the scholarship fund. Medallion scholars are among Arizona's best and brightest, and your support provides them with hands-on leadership, scholarship and service opportunities. More than 100 Medallion scholars are currently at ASU making a difference — volunteering in the community, leading and participating in student associations and activities, and serving internships across the public and private sectors. Tomorrow, they'll be pioneers in health care, innovators in education and leaders in Arizona and beyond.

The new ASU plate is your license to forge a stronger Sun Devil community.



Sun Devils in the driver's seat

Put a Pitchfork on your plate.

Upgrade your ride and let the world know you're part of the Sun Devil Nation. The all-new black-and-gold ASU specialty license plate puts the Sun Devil pitchfork front and center, and was inspired by alumni just like you.

"We're so appreciative of the direction and support we received from ASU alumni throughout the design process. It's great to have such an active and engaged alumni base," said ASU CMO Dan Dillon upon the March unveiling of the specialty plate.

"Now we have finalized the design they liked best and made it available to Sun Devils across Arizona," says Dillon.

The plate was designed by Allison Perlis, '12, BS, visual communication design, a designer at ASU.



1989 The inaugural design was approved by former Gov. Rose Mofford. U.S. President Ronald Reagan received one as a memento of his ASU visit in 1989.



2010 The last ASU license plate redesign saw Sparky get larger on an all-gold background. Today, there are more than 18,000 ASU plates on Arizona roads.

To order or personalize your plate, or to switch out your current plate, visit asuplates.com.



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- U.S. News & World Report, 2016, 2017 and 2018

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