

ASU

ARIZONA STATE UNIVERSITY
VOLUME 22 NUMBER 1

Thrive

2018

Year in review

Highlights from another year of innovative breakthroughs

PLUS

ECONOMIC CHEER

Experts from ASU predict big things for 2019

PATENT POWERHOUSE

Skysong sets benchmark for inventions

INTERNATIONAL CHANGEMAKERS

A father's journey to heal the homeland

McCain scholar
Yaroslav Bekish
leads path to build
a better Belarus



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Best of both worlds at ASU

It is a pleasure to introduce to you this edition of ASU Thrive magazine, appearing on the 30th anniversary of the founding of Barrett, The Honors College at ASU.

It focuses on the advances of both ASU and Barrett since the Arizona Board of Regents created the University Honors College in 1988. The tremendous growth of ASU and Barrett over the 15 years since I arrived has been a beautiful symbiotic relationship. ASU's stellar reputation as an innovative, friendly, forward-thinking university attracts great students from Arizona and all over the country, while Barrett's equally superb reputation as a supportive living and learning community gives academically engaged undergraduates a place to call home. Honors students are an integral part of the university, enriching classroom discussions and contributing to scholarly research.

To the Barrett faculty and staff, the Barrett students are a constant pleasure and inspiration. And we see it as our duty and privilege to make opportunities open up for them. Is a population in a less-developed country experiencing polluted water? A Barrett student on an internship set up by our internship coordinator can invent an economical, locally based purification system. Is that beautiful voice heard in the Barrett Talent Showcase a student interested in singing in a choir? Then the deans can introduce her to the director of the Barrett Choir always on the lookout for honors students with good voices but also an interest in the historical context of choir pieces that can inform how they are performed.

We look forward to the next 30 years of this very special relationship between ASU and Barrett, one we call "the best of both worlds." As ASU takes its place amongst the top U.S. public research universities — the only one that values access and excellence — Barrett will continue to earn its title as the "Gold Standard" of honors colleges.

— Mark Jacobs, Vice Provost and Dean at Barrett, The Honors College, and School of Life Sciences Professor

Review

ASU Online and Google are partnering to launch a first-in-the-U.S. biology course offering a virtual-reality lab.



Go

Calendar of events

Plan your winter with our event highlights on ASU campuses. 4

Update

The latest news briefs, from the opening of Biodesign C to a superflare outburst observed by two ASU astronomers. 6

Economic forecast:

Sunny outlook for the new year. 9

Review

ASU's Year in Review

A look back at the **biggest news** of 2018, from new discoveries in the fight against Alzheimer's, Parkinson's and cancer to other life-changing innovations and more. 12

Advance

3 essentials for a great career and life

Start by protecting time and energy. 20

Don't just sit there:

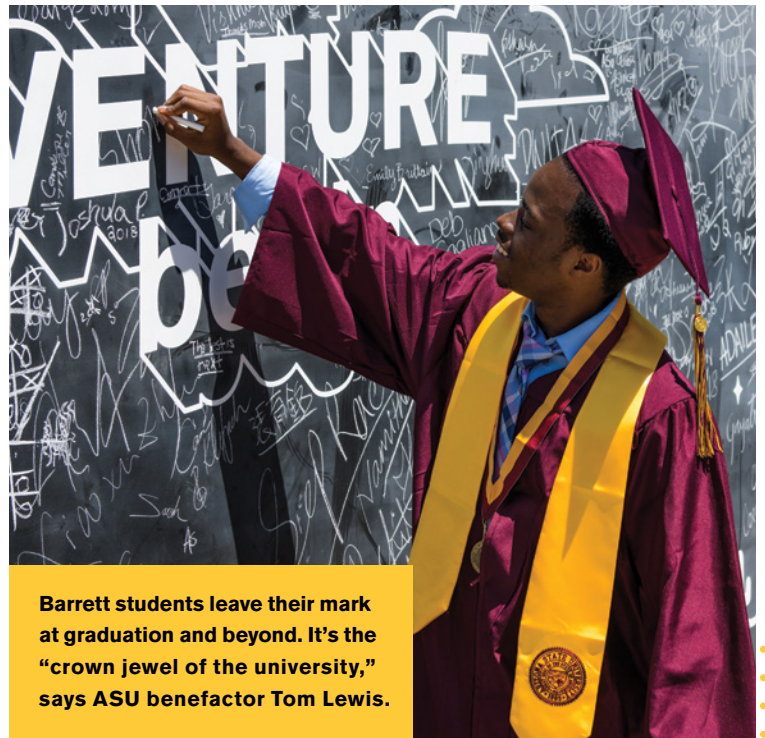
Stay active in the office. 23



Reach

The Barrett standard

In 30 years, ASU's honors college has established a model for excellence to rival the Ivy League. 26



Barrett students leave their mark at graduation and beyond. It's the "crown jewel of the university," says ASU benefactor Tom Lewis.

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youtube.com/ASUAthletics



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instagram.com/sundevilathletics
instagram.com/asuyoungalumni



Yaroslav Bekish, a maverick in the John McCain tradition.

Invent

On course to cure

Cambridge scholar Charity Bhebhe has literally traveled from A to Z on a medical mission. 36

Patent powerhouse: Skysong sets benchmark for inventions. 40

Translating change

McCain Institute scholar Yaroslav Bekish uses leadership concepts he learned in the U.S. to build a better Belarus. 42

Making fuel from an invasive pest in Nepal 48

Play

Living a football fantasy

ASU Law student Phil Ofili helps kick off the new Alliance of American Football. 50

Briefs: New world-class golf facility and more. 52

Connect

Sun Devil 'rewarded': ASU alum savors homecoming weekend. 56

Alumni chapter listings, class notes 57

ASU mentoring on demand 62

Gold dome, then and now 64



The landmark gold dome from Valley National Bank in Tempe is now home to Om Under the Dome and other outdoor activities at Barrett @ Vista del Sol.

DARRAN REES; ELLEN OBRIEN/ASU



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'How to Have a Civil Conversation Across the Political Divide'

Former U.S. Attorney General Judge Michael Mukasey joins New York Law School professor and former president of the American Civil Liberties Union Nadine Strossen at ASU's School of Civic and Economic Thought and Leadership to share a conversation that models a civil, mutually respectful and vigorous exchange of ideas on issues that challenge American society. These speakers, intellectually and politically opposed on many of the issues, will demonstrate that lively civil discourse is possible, even when we deeply disagree about the issues.

Thursday, Jan. 31,
5 p.m., Old Main,
Tempe campus.

[scetl.asu.edu/
news-events/events](http://scetl.asu.edu/news-events/events)

Free

Sun Devil hoops

Join Sun Devil basketball, men's and women's, as they dribble, dunk and dazzle their way through the season!

Now through March, Wells Fargo Arena, Tempe campus.

thesundevils.com

Ticketed Family

Open Door

Curious about ant castles, or want to know why humans are obsessed with taking pictures? ASU Open Door invites the local community — adults and children of all ages — to experience ASU and discover what makes it the “most innovative university” in the U.S. four years in a row.

Whether you're a thrill-seeker, lifelong learner, science guru, art enthusiast or adventure chaser, you will find a unique experience at each of ASU's four metro-Phoenix campuses, and you are invited to visit them all during ASU Open Door.

Open Door includes hundreds of interactive, hands-on activities and opportunities to visit with ASU students, faculty and staff. This signature event of the Arizona SciTech Festival offers you and your family the chance to discover all things science, technology, engineering, arts and math.

Annabeth Shown (above) learns how to fill a balloon with gas during last year's Open Door at ASU's Polytechnic campus in Mesa.

Saturday,
Feb. 2, 1–5 p.m.,
Polytechnic
campus.

Saturday,
Feb. 9, 1–5 p.m.,
Downtown
Phoenix campus.

Saturday,
Feb. 16, 1–5 p.m.,
West campus.

Saturday,
Feb. 23, 1–6 p.m.,
Tempe campus.

opendoor.asu.edu

Free Ticketed
Family

Mapping the Grand Canyon

To celebrate the Grand Canyon National Park's 100th birthday, the Mapping Grand Canyon Conference invites the community to explore the art, science and fascinating practice of Grand Canyon cartography. The two-day program features map-based storytelling, transdisciplinary analyses, demonstrations of state-of-the-art geospatial and cartographic techniques and lots of hands-on activities.

Thursday, Feb. 28–
Friday, March 1,
Memorial Union 221,
Arizona Ballroom,
Tempe campus.

Register at
[lib.asu.edu/
mapping-grand-
canyon-conference](http://lib.asu.edu/mapping-grand-canyon-conference)

Free Ticketed
Family





WAL

Cybersecurity Challenge

Talented minds from high schools and colleges around Arizona come together to solve challenging real-world problems confronting today's cyber professionals, digital forensic scientists and network/security/system engineers.

Saturday, March 2, 9:30 a.m.–3 p.m., La Sala ballrooms, West campus.
newcollege.asu.edu/cybersecurity/challenge

Free Family



Sun Devil Giving Day

A day for Devil donations

Sun Devil Giving Day is ASU's universitywide day of giving. When you make a gift, you join with more than 100,000 like-minded Sun Devils in advancing ASU. Your tax-deductible donations may be made to specific colleges, programs or initiatives.

givingday.asu.edu

Thursday, March 21

Donation

Grammy® Award-winning East LA Chicana rock group Quetzal

Named "one of Los Angeles' most important bands" by the LA Times, Quetzal forges a sound that will simultaneously make you dance and contemplate change, a sound as rich and complex as their pluri-ethnic barrio experience.

Saturday, March 30, 7 p.m., ASU Gammage

asugammage.com

Ticketed Family



Sun Devil Days

Come for an in-depth tour experience on each of the four metro Phoenix campuses. In these half-day events, prospective students will meet college representatives and ASU students while touring facilities across campus.

Tours in March and April.
visit.asu.edu/sundeilday

Free Family

Adventures in Earth and Space

Explore and interact with intriguing science exhibits, immerse yourself in outer space with 3D planetarium shows, check out a full-scale replica of the Curiosity Rover currently on Mars and more.

Friday, April 5, 6:30–9:30 p.m., Interdisciplinary Science and Technology Building IV (ISTB4), Tempe campus.

Free Family

Visit asuevents.asu.edu for events at ASU. Athletics event and ticket information is at TheSunDevils.com.



Pow Wow at Sun Devil Stadium

American Indian dancers and singing groups from across the United States and Canada will be featured at this social gathering that reinforces the common bond and spirituality existing between individuals from many North American nations through singing and dancing. The cultural diffusion which takes place at the ASU Pow Wows helps bridge existing gaps in any misunderstanding of tradition and respect. American Indians represent an increasing percentage of the student population at ASU and with pride seek academic and cultural enrichment by maintaining and sharing heritage and traditions with the community.

Friday, April 12–14, Sun Devil Stadium

asu365communityunion.com

Ticketed Family

Check in at events to earn Pitchforks and rewards!

Log in to the Sun Devil Rewards app for ASU event listings, news, games and more. Earn and be rewarded!
sundeilrewards.asu.edu

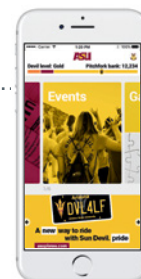
'When My Brother Was an Aztec' by Natalie Diaz

The ASU Book Group is open to all in the ASU community and meets monthly. "When My Brother Was an Aztec" is a collection of poetry, a fast-paced tour of Mojave life and family narrative: These darkly humorous poems illuminate far corners of the heart, revealing teeth, tails and more than a few dreams.

A Mojave member of the Gila River Indian Tribe, Diaz is an associate professor of English and the Marshall Chair in poetry at ASU. She is the recipient of a prestigious MacArthur fellowship, known as a "genius grant."

Wednesday, April 24, 12–1 p.m., Piper Writers House, Tempe campus. Luncheon follows at the University Club.

Free





Hope Center debuts

Richard Miller always wanted to combine the “science of hope” practices he honed while working with kids with the research prowess and infrastructure of ASU. Now he has, and with some star power to boot.

Antwone Fisher, whose personal story of hope inspired a film bearing his name starring Denzel Washington, was part of the launch events this fall for the Center for the Advanced Study and Practice of Hope, a unit of the T. Denny Sanford School of Social and Family Dynamics.

The center will help establish best practices to help children and the adults who care for them to be more effective in promoting their success, translating research and curriculum into actionable plans. Learn more at thesanfordschool.asu.edu/center-for-advanced-study-practice-of-hope.



Subzero sustainability (and ice cream!)

A thermal-energy systems company, a utility, a grocery chain and ASU engineers Kristen Parrish and Robert Wang are teaming to bring energy- and cost-saving innovations to industrial freezers.

They are experimenting with Viking Cold Solutions’ thermal-energy storage and cooling technology in the 10,400-square-foot Bashas’ Family of Stores distribution center in Chandler, Arizona. The ice cream freezer uses a good portion of the total power in a grocery store.

The solution is a passive-energy process that uses “ice packs” of phase-change materials that can easily transform from liquid to solid and back, allowing the grocery to reduce the time it has to run the conventional refrigeration during more expensive peak hours. The benefit both Bashas’ and the Salt River Project utility hope to reap is not simply energy efficiency but also significant cost savings.

Legal center helps residents navigate the law

The law can be a scary path to traverse. Often it seems there is nowhere to turn — or it takes thousands of dollars to find the answer. Enter the Arizona Legal Center, a nonprofit organization that provides guidance to community members who have legal questions and concerns so they can make informed decisions about how to deal with law issues.

Guidance in frequently sought practice areas includes criminal and civil law, landlord/tenant law, employment law, estate planning, immigration and health care. The center, which helps more than 2,000 people a year, operates out of the Beus Center for Law and Society on the Downtown Phoenix campus. Learn more at arizonalegalcenter.org.

101 ~~100~~ 99

One calorie counts!

Hundred-calorie snack packs fill store shelves, but little is known about how labeling affects consumer preference. A recent study from ASU examined consumer mindset — and whether one calorie really makes a difference.

Christopher Lee in the W. P. Carey School of Business says researchers found that respondents reported more favorable attitudes toward products with distinctive calorie information — say, 99 or 101, as opposed to just 100. And it didn't matter whether it was one calorie more or less, but rather the uniqueness of the calorie count.

Lee also found words matter, but only when they align with the product: “tiny” more favorable when paired with 99 calories, “jumbo” with 100 calories.

Studying Yelp offers parents insight on child care

Many people use Yelp to find a good place to eat or a trusted mechanic, but researchers have delved deep into the popular online review site to better understand American child care from those who know best: parents.

Chris Herbst of the Watts College of Public Service and Community Solutions, who was part of the study, says geography and economics play major roles in how parents think about child care. The researchers found that low-income families are less likely to have their phone calls returned by program directors, report worse experiences during visits and were more critical of the customer-service aspects. Practical features such as pricing and accessibility showed up as concerns more for those in low-income areas, whereas consumers in wealthier markets were more likely to comment on a child's learning environment.

Read more findings from the study at bit.ly/2MC7ndh.



New alloy with superhero strength

Captain America's shield is virtually indestructible, thanks to its composition: a synthetically engineered alloy of the fictional elements vibranium and proto-adamantium.

Now researchers from ASU's Ira A. Fulton Schools of Engineering and the Army Research Laboratory have teamed up to push the limit of what's possible with materials science outside the Marvel Universe. They've designed an alloy of copper and tantalum that can withstand extreme impact and temperature.

The alloy has the potential to be used in protective equipment for the armed forces and on spacecraft for space exploration.

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



AIDS memorial quilt in Washington, D.C., in an image from the Bj Bud Memorial Archives

Making marginalized history accessible to all

Historically, archivists haven't done a great job of documenting the stories of minority communities, but that's changing, thanks to a grant from the Andrew W. Mellon Foundation and the work of an ASU Library team. A large portion of the Bj Bud Memorial Archives — the largest LGBT collection in Arizona — is now accessible online to anyone, anywhere, with three more of the library's community archives following suit over the next two years.

“The goal of this project is to show these communities that their histories are valuable and worth saving, and to show people in our profession that these communities have been ignored for too long and we need to work with them and make amends for that and build trust,” says project archivist Alana Varner.

The other archives that will come online are the Maricopa County Organizing Project Records, detailing local farmworker and civil rights history from 1960-90; the League of United Latin American Citizens Collection, which tells the story of the oldest active Latino civil rights organization in the U.S.; and the Alianza Hispano Americana Records, which tell the story of the oldest Latino mutual-aid society.

The Bj Bud collection documents the LGBT community's history from 1966 to 2015. Find it at exhibits.lib.asu.edu.

Astronomers catch red dwarf in superflare outburst

New observations by two ASU astronomers using the Hubble Space Telescope have caught a red dwarf star in a violent outburst, or superflare. The blast of radiation was more powerful than any such outburst ever detected from the sun and would likely affect the habitability of any planets orbiting it.

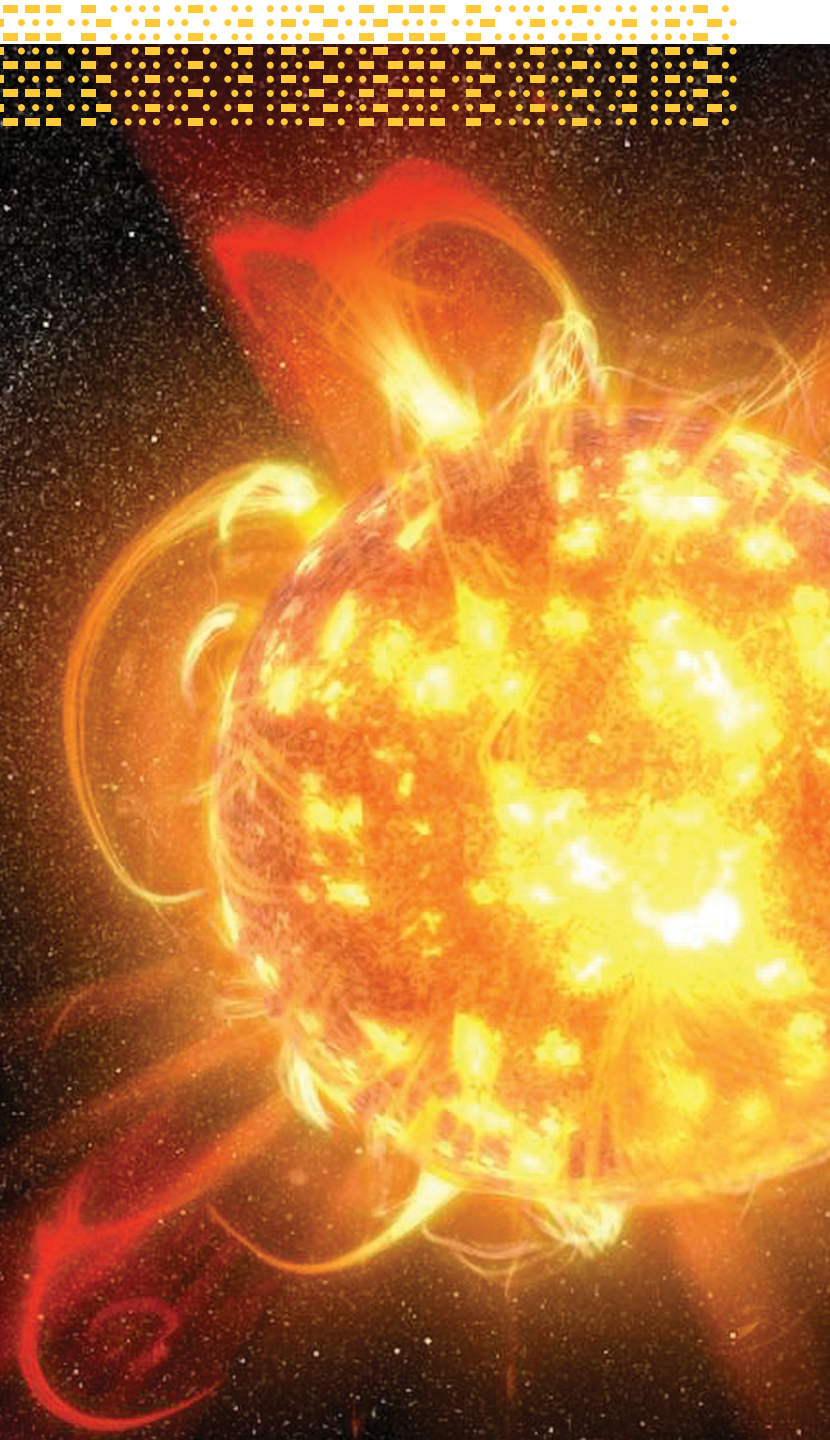
The superflare was detected as part of a Hubble Space Telescope observing program dubbed HAZMAT, which stands for "HABitable Zones and M dwarf Activity across Time." The program surveys red dwarfs (also known as M dwarfs) at three different ages — young, intermediate and old.

"Red dwarf stars are the smallest, most common and longest-lived stars in the galaxy," says Evgenya Shkolnik, an assistant professor in ASU's School of Earth and Space Exploration and the HAZMAT program's principal investigator.

About three-quarters of the stars in our Milky Way galaxy are red dwarfs. Most of the galaxy's "habitable-zone" planets — planets orbiting their stars at a distance where temperatures are moderate enough for liquid water to exist on their surface — orbit red dwarfs.

However, red dwarfs — especially young ones — are active stars, producing flares that could blast out so much energy that it **disrupts and possibly destroys the atmospheres of these fledgling planets.**

"Flares like we observed have the capacity to strip away the atmosphere from a planet. But that doesn't necessarily mean doom and gloom for life on the planet," says ASU postdoctoral researcher Parke Loyd, the first author on the paper that reported the stellar outbursts. "It just might be different life than we imagine. Or there might be other processes that could replenish the atmosphere of the planet."





Economic sunshine ahead

While economic growth is expected to slow during the next year, two ASU economics professors predict big things for Arizona in 2019. Here's the sunny forecast:

Lee R. McPheters is research professor of economics and director of the JPMorgan Chase Economic Outlook Center at ASU's W. P. Carey School of Business, and editor of the Arizona and Western Blue Chip Economic Forecast publications.

Arizona will rank among the top 10 states for job creation in manufacturing, construction and professional and technical services as the economy adds some 75,000 new jobs.

The Arizona unemployment rate will continue to decline during the year ahead, dipping below 4 percent for the first time in more than a decade.

Phoenix will remain one of the nation's most dynamic metro areas, accounting for eight out of every 10 new jobs created in the state.

It is "all systems go" for the U.S. economy in 2019. Though growth is expected to slow a bit, the fundamentals remain strong.

The unemployment rate is set to decline a bit further while wage and broader compensation growth will slowly accelerate.

Job growth also looks to remain solid with about 71,000 jobs a month added to nonfarm payrolls in 2019.

Bart Hobijn is professor of economics at W. P. Carey School of Business whose research is focused on inflation, unemployment and economic growth.

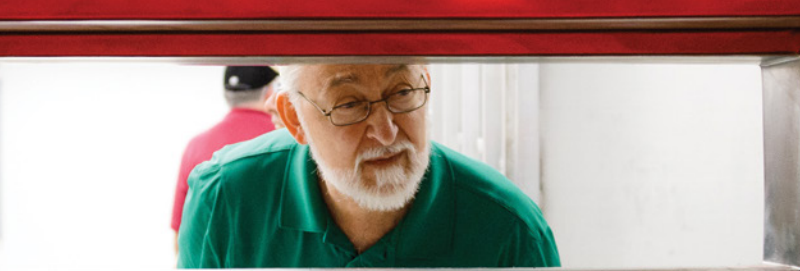


... but bring an umbrella

Three factors could impact the professors' sunny outlook:

- **Stock market valuations are high** compared to the underlying earnings levels and outlook.
- **The reorganization of global supply chains** in response to trade disputes can negatively impact the economy.
- **Slowing global economic growth** might be a drag on the U.S. economy.

Join an upcoming conversation about the economic outlook at the Economic Club of Phoenix luncheon Feb. 27, hosted by the W. P. Carey School of Business, with Amin Maredia, former CEO of Sprouts Farmers Market. econclubphx.org



Thomas Groy, associate research professional with ASU's School of Molecular Sciences, examines a cutout in the wall of the vault that will house the CXFEL. It is complete with vibration-proof floor and a 4-foot-thick, 36,000-pound lead-shielded door.

Science at the forefront of Biodesign C grand opening

About 450 people gathered in mid-September to celebrate the opening of Biodesign C, the third of four facilities planned to accommodate the Biodesign Institute's cutting-edge research efforts into finding solutions to challenges in health, the environment, energy, national security and more.

Visitors at the grand opening of the five-story, 191,000-plus-square-foot building were able to view a roughly 7-foot-long 3D model of the world's first compact X-ray free-electron laser (CXFEL) — a drug discovery and bioenergy research tool — and step inside the vault where it will be located.

The CXFEL is a highly sensitive piece of equipment that allows scientists to peer deep inside proteins to better understand the action of molecules critical to cancer and other devastating diseases, and also how plants convert sunlight into renewable energy. It requires a controlled environment to ensure accuracy.

The CXFEL is scheduled to arrive in the spring.

v: to look back
on or take a
retrospective view
of; to re-examine

Review

INNOVATION LEADER

ASU is a top knowledge engine with a rich diversity of highly ranked programs led by the world's top minds, producing research that solves pressing global and local issues through powerful partnerships. And for the fourth consecutive year, U.S. News & World Report ranks ASU as the No. 1 school for innovation, ahead of MIT and Stanford.

Physics Assistant Professor Rizal Fajar Hariadi (right), working with undergraduate researcher Rachael Kha in his biodesign lab at ASU, won the 2018 NIH New Innovator Award with fellow Assistant Professor Nicholas Stephanopoulos.

In the news

Monthly recap of ASU's defining moments in 2018.

12

By the numbers

ASU's impact in 2018, from economics to research.

16

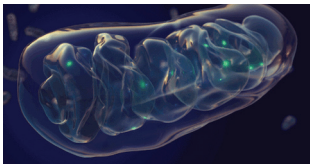
Year in review

In the news



January

ASU takes the next bold step to become the world leader in sustainability research and education, launching the Global Futures Initiative. GFI harnesses the innovative capacity of academia to develop options for the sound management of our planet.



An ASU team discovers a promising step in the fight against Alzheimer's by examining the effects of the disease to rob brain cells of their primary energy source — decades before symptoms first appear.

February

ASU scientists develop a breakthrough for targeted cancer therapy and precise drug design, successfully programming nanorobots to shrink tumors by cutting off their blood supply.

ASU wins 2018 Excellence in Diversity and Inclusion in International Education award

ASU's unique program for helping first-generation college students overcome obstacles to studying abroad, including funding, earns top national recognition.

ASU is a top producer of Fulbright student winners, ranking seventh in the nation for student Fulbright awards among public universities, ahead of the University of

Virginia, the University of North Carolina at Chapel Hill and Penn State.

ASU is among the top universities in the U.S. for Peace Corps volunteers.

March

A research unit in ASU School for the Future of Innovation in Society is named a top-10 think tank for science and technology policy by The Global Go To Think Tank Index. In a survey of more than 6,600 think tanks across the world, the Consortium for Science, Policy and Outcomes earns top-10 recognition for the second consecutive year.

ASU students invent at-home Pap smear device called Domi Care that will allow women to take a Pap smear test in the comfort of their own homes.



The Ambassador Barbara Barrett and Justice Sandra Day O'Connor Washington Center opens, expanding ASU's impact in Washington, D.C.

1

April

Former United Nations Ambassador Amanda Ellis joins ASU

to create and cultivate international strategic partnerships and program initiatives in international sustainability, diplomacy and development, global gender issues, diversity and inclusion.

—



The ASU Preparatory Academy robotics team earns a coveted spot in the world championships.

—

The National Endowment for the Humanities approves a grant for ASU's new "Veterans, Service, and Society" certificate program designed to grow a deeper understanding of U.S. military veterans.

8

The Global Locust Initiative, a new ASU research and action program, connects international experts to combat the expensive crop damage insects wreak worldwide.

May

Eminent scholar and ASU Regents' Professor Douglas C. Montgomery gives \$2 million to support industrial engineering at ASU.

—

ASU Prep Poly STEM Academy, a K-8 charter school, ties for the top spot in Arizona Department of Education ratings.

—

The Los Angeles County Museum of Art and ASU launch a partnership

to advance a new generation of art museum leaders and a more inclusive museum career field. LACMA, the largest encyclopedic art museum in the western U.S., and ASU's Herberger Institute for Design and the Arts, the largest comprehensive design and



ASU's Global Locust Initiative combines lab science, fieldwork and data modeling to help reduce locust outbreaks and the effects of plagues for the well-being of farm communities and sustainability.

arts school in the nation, will develop a program that combines academic training and work experience to advance the careers of professionals who are committed to disrupting and diversifying the field.

—



ASU innovators advance the field of DNA nanotechnology with a high-speed machine, a DNA walker thousands of times smaller than a bacterium and moving 10 to 100 times faster than previous devices.

June

In the scientific journal Neuron, ASU scientists reveal certain herpesviruses may trigger Alzheimer's disease.

Researchers at the ASU-Banner Neurodegenerative Disease Research Center, and their colleagues at the Icahn School of Medicine at Mount Sinai, use large data sets from brain donors and bioinformatics to reveal a hidden link between certain herpesviruses and Alzheimer's disease.

—

The National Cancer Institute awards more than \$8.5 million to ASU to establish a new cancer center.

ASU becomes one of just 13 research institutions around the world selected by the NCI's Cancer Systems Biology Consortium to serve as a hub for fighting the disease.



An ASU team uses artificial intelligence to detect wildfires before they become catastrophic with software that analyzes data from surveillance drones to scrutinize early-stage wildfires.

July

ASU researchers empower Pakistani colleagues to confront the country's sustainability risks with two of Pakistan's leading higher education institutions. ASU launches the U.S.-Pakistan Centers for Advanced Studies in Energy, called USPCASE. The organization will help Pakistan address the lack of sustainable energy sources through research.

August

The Scripps Howard Foundation establishes a Howard Center for Investigative Journalism at ASU with a \$3 million gift to the Walter Cronkite School of Journalism and Mass Communication, one of two Howard Centers for Investigative Journalism in

the country. New nationally recruited Howard Center faculty will join five Pulitzer Prize-winning investigative reporters and editors already at ASU.

The Sandra Day O'Connor College of Law welcomes a record-setting JD class with a median grade-point average of 3.76 and median LSAT score of 163. The program, ranked No. 8 among U.S. public law schools by U.S. News & World Report, received more than 3,300 JD applications, a 64 percent increase over the previous year.



ASU expands presence in Southern California offering multiple programs — including the Walter Cronkite School of Journalism and Mass Communication, the Herberger Institute for Design and the Arts and others — at the century-old newspaper headquarters of The Los Angeles Herald Examiner in downtown LA. The expanded offerings are in the company of USC, UCLA and the California Institute of Technology, with a projected launch in 2020.



ASU and Mayo Clinic researchers seek the keys in detecting Parkinson's disease before it displays observable signs. Specifically, blood-based biomarkers are the target, which may lead to earlier, more accurate diagnoses, the ability to track the progression of the disease and more targeted treatment options.

September

A Biodesign Institute building is home of the world's first compact laser. A five-story, 191,000-plus-square foot building opens on ASU's Tempe campus, providing world-renowned scientists and student researchers even more space for groundbreaking discovery. Biodesign Institute Building C will be home to the world's first compact X-ray free-electron laser — a key drug discovery and biodesign research tool.



ASU Online and Google partner to launch a first-in-U.S. biology online course offering a virtual-reality lab option.



ASU earns a top-5 spot for sustainability in Sierra Magazine's annual "Cool Schools" report. It also is ranked No. 7 nationally in the 2018 Sustainable Campus Index, a publication of the Association for the Advancement of Sustainability in Higher Education.



From historic stadium to community jewel: Sun Devil Stadium's "365 Community Union" sets new standards as a year-round events, learning and cultural hub for the ASU campus and community.

October

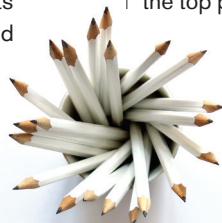
The ASU Watts College receives a transformational gift of \$30 million from Greater Phoenix natives Cindy and Mike Watts. The gift results in the historic renaming of



Natalie Diaz, a poet who teaches at ASU's English department, is awarded the MacArthur "genius" grant, the fourth member of the university's current faculty to be honored. The fellowship recognizes "exceptional creativity" and is awarded to "people on the verge of a great discovery or a game-changing idea."

ASU's public service college to the Watts College of Public Service and Community Solutions.

Beyond the study of a collaborative, hands-on approach to developing solutions to societal challenges, the Watts' generosity will embed students, faculty and staff in the community to address local problems.



ASU rises in the rankings as a top producer of Teach For America members, earning the No. 3 spot among 680 colleges and universities surveyed. It is the fourth straight year ASU has been named among the top producers of Teach

For America corps members who commit to teach for two years in high-need urban and rural public schools.

November

ASU and Uber Education launch a partnership to provide fully funded tuition coverage for eligible drivers or a family member. The program designed to make a college degree more accessible is similar to ASU's groundbreaking partnership with Starbucks.

December



ASU's 'starbirth' research is selected a top-10 Breakthrough of the Year by Physics World. The publication recognized ASU cosmologist Judd Bowman and his research team for detecting evidence of the earliest stars in the universe, born a mere 180 million years after the Big Bang.

ASU launches the Smart City Cloud Innovation Center in partnership with Amazon Web Services.

The one-of-a-kind innovation center focuses on building smarter communities in the Phoenix metropolitan area by using AWS Cloud to solve pressing community and regional challenges.

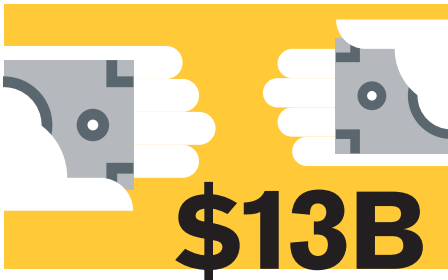
Year in review

By the numbers

Economic impact



annual economic impact on state of Arizona



wages earned annually by ASU graduates in Arizona workplace



investment capital generated by 120 ASU faculty and student startups since 2003

Research



Top 10 in U.S. for total research expenditures among institutions without a medical school, ahead of Caltech, Carnegie Mellon and Princeton

One of the fastest-growing research universities — ahead of Harvard, Yale, Duke and others

— HIGHER EDUCATION RESEARCH AND DEVELOPMENT SURVEY, 2018

\$604M

in estimated research expenditures in fiscal year 2018



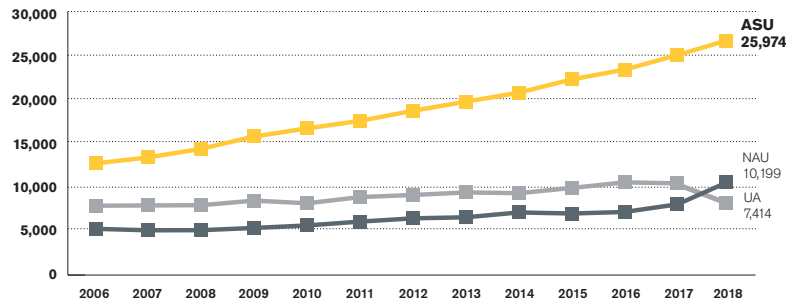
Top 10 in U.S. for NASA-funded research expenditures, ahead of Stanford, Columbia and UCLA

Academics

Prestigious faculty

More than 300 ASU faculty have been conferred by The National Academies of Sciences, Engineering and Medicine with highly prestigious awards, including **Nobel laureates, Pulitzer Prize winners, MacArthur Foundation fellows and Fulbright American scholars.**

Degrees awarded



ASU annually graduates thousands of innovators who excel in engineering, business, education, the arts and other fields. In 2017-18, ASU awarded degrees to 18,178 undergraduate and 7,796 graduate students.

#1 public university for international students four consecutive years.

— 2018 INSTITUTE OF INTERNATIONAL EDUCATION REPORT

#1 Most innovative in the U.S.

four consecutive years, ahead of Stanford and MIT, in survey of higher education peers

— U.S. NEWS & WORLD REPORT, 2016, 2017, 2018, 2019

Top-100

university for research and teaching

50

ASU degree programs — in arts, business, education, engineering, law, public affairs and science — in the top 25 in the U.S., ahead of all Arizona universities, public or private.

— U.S. NEWS & WORLD REPORT, 2019

Top 1%

“most prestigious” world universities

— TIMES HIGHER EDUCATION, 2019

4.32

grade-point average of 2018 incoming Barrett, The Honors College freshmen, including 1,000+ National Merit scholars

Athletics

Best in field



- Pac-12 Coach of the Year — Jay Santos, gymnastics; Trish Ford, softball; Zeke Jones, wrestling.
- Pac-12 Freshman of the Year — Spencer Torkelson, baseball; Cairo Leonard-Baker, gymnastics.
- Zahid Valencia: Pac-12 Wrestler of the Year second year in a row.
- Maggie Ewen: 3 NCAA titles — discus, shot put (2); Honda Sport award.
- Roberta Liti, women's golf, Pac-12 Scholar-Athlete of the Year.
- 3rd straight national women's triathlon title in as many years of varsity play.

Philanthropy

105K

individuals, corporations and foundations providing philanthropic support in 2017-18

CAMPAIGN ASU 2020

\$253M

generated through Campaign ASU 2020 gifts in 2017-18



10,000

students received scholarships through private support at ASU in 2018



Proud to be the exclusive banking partner of ASU®.



Supporting ASU®. Supporting the community.

MidFirst Bank is committed to helping the ASU® community thrive, and offers a variety of product, services and educational programs to ASU® alumni, including:

- ASU® branded debit, credit and gift cards provided exclusively by MidFirst Bank
- More than 20 convenient MidFirst banking centers across the Valley
- The MoneyMoments® financial education program helps people of all ages develop strong money management skills
- Official partnership with Sun Devil® Athletics

MidFirst Bank is proud to support ASU®. When you use your ASU® debit or credit card, MidFirst Bank gives back to the university. In just six years, MidFirst has donated more than \$2 million for special initiatives and scholarships, and for other student, employee and alumni programs.

We're proud to be an ASU® partner and we'll continue doing our part to strengthen the university.



v: to move forward; to rise in rank, position or importance; to make progress

Advance

APPRECIATION

“One of the things

(my dad) said stayed with me ... ‘we must, whenever possible, reach out to each other, tentatively to touch, with our hands, with our minds, and with our hearts.’ And that’s what I try to do in my work as a reporter. And I think that’s what happens every day at ASU. Undergraduates and graduate students, alumni and faculty, reaching out. With hands and minds and hearts.”

Emmy and Peabody Award-winning broadcast journalist Anderson Cooper received ASU’s 2018 Walter Cronkite Award for Excellence in Journalism. Cooper shared stories about his adventures and expressed optimism about mankind and journalism during remarks at a luncheon in his honor.

Protect your time and energy

3 essential steps for advancing your career and having a great life. **20**

Don’t just sit there

12 ways to make physical activity part of your day at the office. **23**

These
are my
boundaries.

Thank you for
asking me. I need
to say "no"



Dear boss,
checking in
to prepare you
(and me)



3 essential skills for a

great career and life



May Busch is senior advisor and executive in residence in ASU's Office of the President. She is also a professor of practice in the W. P. Carey School of Business and chairs the Idea Enterprise. Find her at maybusch.com/asuthrive.

BY MAY BUSCH

When someone in a senior position asks you to “jump,” do you say “How high?” Or do you start negotiating? Depending on the situation, either response could be appropriate ... or a mistake. When you say “yes” to everything, you can end up taking on too much, as well as the wrong things. That could lead to burnout, mediocre work and even relegating yourself to support rather than leadership roles.

But while you'll probably have a better lifestyle when you negotiate on every point, you could be labeled “difficult.” That can mean missing out on great assignments and closing off career possibilities. So what can you do to advance in your career and have a great life, too? Here are three essential steps for protecting your time and energy.



1. Set boundaries

Set your own rules or guidelines for how much time and energy you spend on your projects or activities. For me, it's about how long I spend working, because I have a tendency to work on something much longer than necessary.

You can further break this down into specific metrics such as how many days a week you travel, not missing two family dinners in a row, or never working on the weekend.

I learned to set boundaries when my department head gave me a heads-up. He was so worried about the hours I put in that he called me into his office one evening to say, “If you keep working like this, you'll end up burning out and probably

divorced. I want you to take your kids to school one morning a week and be home in time for dinner twice a week. Believe it or not, the firm will still operate without you.”

It took someone senior giving me permission (rather, commanding me) to set boundaries before I finally gave myself permission. Because none of us can rely on having a wonderful boss impose such boundaries, it’s important to give yourself permission to set them yourself.

2. Say “no”

You’re going to be asked to take on many projects and tasks in your career. Some of them will be amazing opportunities, while others less so. But as an achiever, you may find it hard to say “no.” I certainly fall into that category.

I should’ve said “no” to a long list of things. Examples: Being the one to write up task force recommendations (which were never acted upon), taking on a friend’s teenage son for

a summer internship (think babysitting), and traveling to Rome for one meeting as a favor to a colleague.

Were they big mistakes? Not really, and there was always a rationale for saying “yes” to each. But they added up to a significant distraction from the truly important things that I could have been working on.

Since then, I’ve learned a new acronym: SIWYSNT — Success Is What You Say No To.

With the help of my team, I now have a decision-making filter for determining whether or not to take on an activity. It includes things like whether it’s core to my mission, builds my brand, develops a new skill, builds my network, and whether it is going to spark joy.



3. Manage up

Another key career skill is knowing how to manage up, as in proactively managing your relationship with your boss and shaping their perception of your work.

Do you know how to push back when someone in a senior position makes an unreasonable request? Are you skilled at influencing outcomes? Can you anticipate needs so you can do the task on your own time rather than having deadlines dictated by others?

One of my team members had the latter skill down to a science. Brian would stop by my desk in the morning and ask about upcoming client meetings so he could start on the prep work. This gave me a chance to plan ahead, and Brian added value by making suggestions on what material we could use.

This helped Brian manage his time, helped me be more prepared for important meetings and enhanced his reputation with me. Win-win! ■

Conclusion

As you advance in your career, the above steps and your professional skills will become more valuable. After all, there will be more demands on your time, those senior to you will be more powerful and the stakes will be higher.

They can also apply to your life away from work. For example, set

boundaries for the household tasks of each family member, or how much time you spend with the in-laws.

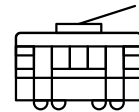
Saying “no” can easily apply to friend and family requests. And managing up by anticipating needs has worked well for me with my husband — and yes, it’s usually wise to treat your partner like a boss or client!



Drink lots of water.

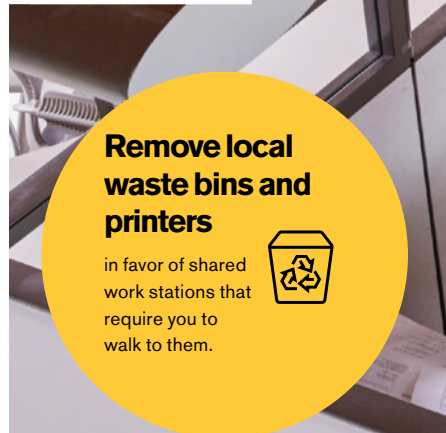
It’s good for you and makes you get up.

Use the restroom on a different floor.



Park in the farthest spot

in the parking lot or take light rail, creating an additional walk from your commute to the workday.



Remove local waste bins and printers

in favor of shared work stations that require you to walk to them.



Ideas. Insights. Inspiration. Check out May Busch’s advice-and-tips blog at maybusch.com/blog.

Don't just sit there

Ways to stay active at the office

ASU research debunks the myth that sitting is the new smoking, but too much sitting during the day can increase your risk for a number of health conditions. How to break your sedentary habits? Matt Buman, associate professor in ASU's College of Health Solutions, shares on these pages 12 tips as reminders and encouragement. Buman knows his stuff: He was a special consultant to the scientific committee that provided recommendations for updated federal guidelines on physical activity for Americans.

Get up and talk

to your co-worker rather than writing an email.

Institute **standing or walking** meetings.

Encourage **standing breaks within meetings**; maybe have someone as the designated person to start standing.

Start a morning/ lunchtime **stretching and/or walking group**.



Get a headset and stand while talking on the phone.

Install prompting software on your computer to avoid prolonged bouts of sitting.

Stand and move when transitioning between tasks.

Move for five minutes

every hour, on the hour.




Free career services for life for grads

ASU Alumni offers free career services for life to Sun Devil alumni, including job and internship connections, with access to thousands of job postings online; career advice in both virtual

and in-person meetings; and career resources you can access 24/7. Register at alumni.asu.edu/benefits/alumni-career-and-professional-development-services.







v: stretch in a specified direction in order to touch or grasp something

Reach

SETTING THE STANDARD

“The Barrett Honors College at Arizona State University is widely considered the gold standard ... Barrett combines the intimacy and academically distinguished student body of a Swarthmore with the scale, eclecticism and sprawling resources of a huge university. It’s two experiences in one.”

— FRANK BRUNI IN
THE NEW YORK TIMES

ASU rivals the Ivy League

In 30 years, Barrett has created the model for U.S. honors colleges. **26**

Merits of Barrett

10 defining moments in 30 years of ASU’s honors college. **31**

The Barrett standard

In 30 years, ASU's honors college has established a model for excellence to rival Stanford, MIT and the Ivy League

Story by WAYNE D'ORIO

Growing up in Pennsylvania, Barbara McConnell Barrett dreamed about Arizona since her father traveled West during the Depression as a cowboy.

When she was ready for college, she had a plan — come to Arizona for a semester and then return East to finish her education. She requested catalogs from all three state universities and says “Arizona State’s was the prettiest.”

Today, ASU is also one of the nation’s best, partly because Barrett’s plan happily evaporated after coming to Tempe. “I never left,” she says, “and that was 50 years ago.”

She earned bachelor’s, master’s and law degrees at ASU, becoming the first woman to run for governor in Arizona and the first civilian woman to land an F/A-18 Hornet on an aircraft carrier during a distinguished career that included a stint as U.S. ambassador to Finland.







Barrett welcomes incoming students to the community with a weekend at Camp B in Payson or Camp B-Town in Prescott to connect with new advisors, faculty, peer mentors and one another over glow sticks and s'mores.

“It’s good to get out of Phoenix. We did a lot of bonding and activities with our group.”

— MANUEL MERINO, A JUNIOR CRIMINOLOGY MAJOR BASED IN PHOENIX, RECALLING HIS CAMP B-TOWN FRESHMAN-YEAR EXPERIENCE

Fast forward to 2000. She and husband Craig Barrett, the former CEO of Intel, endowed \$10 million to ASU’s honors college, impressed by its success.

The school bearing their name is now renowned as the gold standard of public honors colleges, one to rival Ivy League universities and a model emulated around the world.

Barrett, The Honors College also has been transformed by the vision of ASU President Michael M. Crow and Mark Jacobs, who both left prestigious East Coast schools to create new models at ASU.

“It’s become the crown jewel of the university,” says ASU benefactor Tom Lewis of the honors college.

Culture change

ASU’s honors college, established in 1988, had existed for 15 years when Crow first contacted Jacobs about leading it. But, Jacobs admits, “I didn’t know what an honors college was.”

He also didn’t know that would actually help him land the job as dean and serve him well as he remade the school during the last 15 years.

Crow became ASU’s president in 2002, a year before Jacobs arrived, with the idea to create a New American University. Crow had been Columbia University’s executive vice provost and knew that ideas could take root more quickly at ASU without pushing against 350 years of history and tradition.

“He had a vision no one else

had,” Jacobs says, which was modeling Barrett as an innovative, interdisciplinary four-year residential college within an 80,000-student public research university.

Jacobs was an associate provost at Swarthmore, a private liberal arts college outside of Philadelphia standing on tradition, and resistant to risk and change. Meanwhile, Crow wanted Jacobs to use his own ideas about what worked.

“It’s been exciting for that reason,” Jacobs says.

At first, ASU tried to play up the honors college’s prestige by targeting out-of-state students, but the goal was always to become the top choice for the state’s smartest students. Attracting in-state learners, who pay about one-third the cost of a small private college, makes it more likely they stay in Arizona after graduation.

“We were attempting to alter a culture,” Crow says about the entire university. “I hope the faculty here feel like they can advance any idea.”

Today, two-thirds of Barrett students come from Arizona. ASU and Barrett also produce as many Fulbright scholars as the Ivy League schools, and nearly four of every 10 Barrett alums attend graduate school immediately. About one-third of graduates enter the workforce, grabbing jobs at widely diverse companies such as General Motors, Microsoft, Boeing, Starbucks and Google.

“Nobody’s flipping burgers,” Jacobs says.



Student focus

Barrett graduates from earlier years almost seem like they don't recognize the school when they visit today.

"The growth of the organization, the number of students benefitting, the influence on the broader education [at ASU], it's astounding," says Christopher Jaap, a 1995 graduate who launched Ridgeline Law Office in San Francisco in 2017 and established a scholarship for ASU honors students with a passion for sustainability. Barrett, he remembers, "opened my mind in a classic liberal arts way."

Barrett also prides itself on providing a life experience, not just an educational experience. In 2009, the school opened a seven-building, \$140 million

"Academics aren't known for being nimble, but at the honors college, innovation is the byword."

— BARBARA BARRETT,
CHAIR OF
AEROSPACE
CORPORATION AND
HONORS COLLEGE
BENEFACTOR

complex spread over nine acres. Instead of occupying two floors in an existing residence hall, the honors college now owns the southeast corner of the Tempe campus.

This allowed Barrett to not only create its own dorm, where most students spend their first two years, but also honors classrooms, a separate dining hall and a refectory right out of Harry Potter and Hogwarts.

The new campus "took it to a whole other level of interaction for students," says Kristen Joy Hermann, a senior associate dean for student services at Barrett.

Barrett students now comprise 18 percent of ASU's freshman class, and they typically take two-thirds of their classes outside the honors college.

Barrett is home to big aspirations. Rachel Geiser, above left, laughing with Prathima Harve during their advanced biochemistry class on the Tempe campus, is a senior double majoring in biochemistry and political science with the goal of becoming a surgeon and public health researcher.

Barrett is not just about classrooms. Grant House, a sophomore majoring in exercise and wellness, is also an elite-level ASU swimmer.

It's all part of the "extra" that students say is one of their favorite aspects of Barrett — an oasis that allows them to find their passion. The whirlwind experience includes participation in everything from conducting original research to meeting personally with international leaders. There's even a monthly breakfast with Jacobs.

Prospective students have taken note. Over the past 10 years, applications have more than tripled to 4,300 and

“Even an out-of-state student here pays half of what they pay at Princeton, yet we offer the quality of an Ivy. We’re disrupting the whole idea of college education.”

— MARK JACOBS,
DEAN OF BARRETT

enrollment jumped from 2,800 to more than 7,200 spread across four metro Phoenix campuses. In just 30 years, Barrett now has more students than Harvard.

The enrollment surge has not lowered academic requirements. Students still need to complete a thesis before they graduate, an unusual undertaking for an undergraduate. But it allows students to compete for various awards they also tend to win.

In 2017, Barrett was one of only four U.S. institutions to graduate Churchill, Marshall and Rhodes scholars in the same academic year. Indeed, over the past 10 years, Barrett has been among the top 10 universities producing Fulbright scholars.

“In the honors world, Barrett really is the gold standard, it’s not just a marketing slogan,” says Nicola Foote, vice dean and the newest member of Barrett’s administration.

Be like Barrett

Prior to this year, Foote had been an associate dean at Florida Gulf Coast University, where she was responsible for building the school’s honors college. She admits to using Barrett’s model to craft her school’s program.

Since stepping onto the ASU Tempe campus in the fall, Foote has seen behind the curtain, experiencing the innovation at Barrett up close and diving into attempts to improve the college. She has quickly gone from copying Barrett’s methods to hosting tours for teams of officials from around the country who are anxious to emulate Barrett’s gold standard.



Merits of Barrett

10 milestones and defining moments in the 30-year history of ASU's honors college

That slogan came from an unexpected source — New York Times columnist Frank Bruni, who wrote a book in 2015 about the mania surrounding college admissions. In “Where You Go Is Not Who You’ll Be,” Bruni devoted most of a chapter to ASU and the experiences of two Barrett graduates.

After the book came out, Jacobs contacted Bruni and provided more details about the school. Bruni was so impressed he praised the school in a column: “Barrett combines the intimacy and academically distinguished student body of a Swarthmore with the scale, eclecticism and sprawling resources of a huge university. It’s two experiences in one.”

Bruni also updated his book to include Barrett’s top ranking in John Willingham’s “A Review of Fifty Public University Honors Programs,” adding, Barrett “is widely considered the gold standard.”

Today, one of Barrett’s biggest fans is Tom Lewis, an Arizona resident and ASU benefactor who graduated from the University of Kentucky.

In 2001, Lewis started a foundation to help fund top students in Arizona. While the recipients could go to any college — and they went as far away as Stanford, Duke and the Ivy League universities — Lewis started noticing more and more ended up at Barrett. “The best students want to go to the best schools,” he says.

So Lewis changed the scholarship, requiring students

1988

ASU creates the first four-year, undergraduate, residential honors college in the United States, appointing Ted Humphrey as dean.

1994

Beginning of the gold standard: Money magazine cites ASU’s University Honors College as one of the top eight in the U.S., and The Fiske Guide cites the UHC for excellence.

1995

Brent Roam is the first University Honors College student named a Rhodes Scholar. Roam studied theology and philosophy at Oxford, practiced law in St. Louis and founded U-City Family Church there.



1998

Henry Kissinger inaugurates the John J. Rhodes Chair in Public Policy and American

Institutions with a public lecture before about 2,000 ASU students and faculty. The chair allows distinguished visiting professors to work with students on developing leadership.

2000

Craig and Barbara Barrett give ASU \$10 million to endow the honors college. The next year, the school is named for the Barretts.



2003

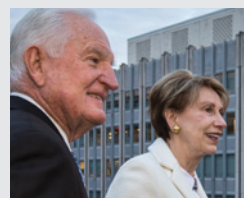
Mark Jacobs becomes dean of Barrett, with the idea of creating for its students a private college feel with all the benefits of a major research public university.

2009

Barrett gets its own \$140 million, nine-acre location that further instills the trappings of a liberal arts college.

2015

New York Times columnist Frank Bruni publishes “Where You Go Is Not Who You’ll Be” as an antidote to the college admissions madness. In one chapter, he singles out Barrett as “the gold standard” among honors colleges.

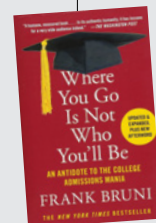


2017

The Barretts donate another \$2 million to both boost the honor school’s global engagement programs and to bring world leaders to ASU’s Tempe campus.

2018

Barrett’s ballooning enrollment hits 7,236 as work continues on its Honors Student Success Center, a facility that aims to bring together all the services students need under one roof.



to attend Barrett. Then in 2015 he donated \$23.5 million to create Lewis Honors College at Kentucky.

"It will be very much patterned after Barrett," Lewis says, admiring not only the quality of Barrett but also how the college helps Arizona retain the state's best and brightest. "They contribute back to the growth and prosperity of the entire state."

"In the honors world, Barrett really is the gold standard, it's not just a slogan."

— NICOLA FOOTE,
BARRETT VICE
DEAN

Future view

Barrett continues setting the trend for honors colleges at U.S. public universities.

"The tough work of the beginning has been established, but inertia doesn't help quality," says Barbara Barrett, currently the chair of Aerospace Corporation.

"Academics aren't known for being nimble," she adds. "At the honors college innovation is the byword." U.S. News & World Report agrees, ranking ASU as the nation's most innovative university, ahead of MIT, Stanford and Carnegie Mellon, among others.

Barrett and her husband committed another \$2 million to the honors college in

How ASU/ Barrett compare

Innovation ranking

ASU	#1
Stanford	#5

U.S. News & World Report, 2019

NASA R&D expenditures

ASU	#10
Stanford	#18

National Science Foundation, 2016 Higher Education Research and Development (HERD) rankings

Fulbright scholar selection rate

ASU	#9
Harvard	#15

Fulbright scholars (2007 – 2017)

ASU	183
UPenn	159

Incoming freshman GPA

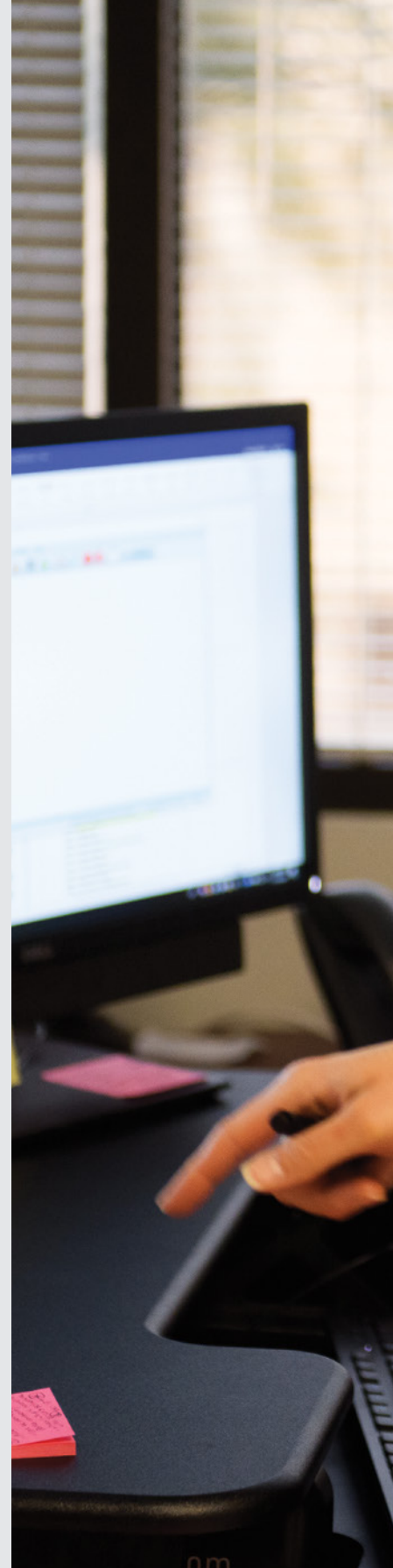
Stanford	3.95
ASU Barrett	3.78

*Unweighted average based on 4.0 scale
Barrett's weighted GPA is 4.32*

Four-year graduation rate

ASU Barrett	77%
Stanford	75%

2013 cohort





Barrett also provides extensive mentoring. Dwayne Martin-Gomez reviews work with Allison Williams, his Barrett thesis mentor and program manager of research at the ASU Center for Health Promotion.

2017, expanding the school's international program to bring the world to Tempe. In 2018, for example, Vaira Vike-Freiberga, the former president of Latvia, was a scholar-in-residence at Barrett, staying on campus for weeks to guest lecture in honors courses and meet with students in small groups.

"We want to get young people familiar with the global environment," Barbara Barrett says. "This is the world they will be working with in the future."

Next up: construction of an Honors Student Success Center. As part of the university's 2020 campaign, Barrett is seeking to build a one-of-a-kind facility among honors colleges, a



"We want to get young people familiar with the global environment. This is the world they will be working with in the future."

— BARBARA BARRETT,
HONORS COLLEGE
BENEFACTOR

single building that will house all the services students need under one roof. Plans include advisers, writing center, national scholarship office and more.

Barrett is raising its standard. ■

Prep for
becoming
a Sun Devil

This customized learning opportunity integrates online high school courses with 100+ university courses in undergraduate majors at Arizona State University.

www2.asuprepdigital.org/alumni_mag

ASU Prep Digital
Arizona State University

v: to originate
or create as a
product of one's
own ingenuity

Invent

HACKS FOR HUMANITY

The annual event, sponsored by ASU's Project Humanities, provides "a burst of creative disruption," says Neal A. Lester, Project Humanities director. In 2018, the 36-hour entrepreneurial marathon brought together developers, artists, humanists, futurists, designers and visionaries to create technical solutions to global issues.

Amanda York works on a Hacks for Humanity project implementing three of seven key principles — kindness, compassion, integrity, respect, empathy, forgiveness and self-reflection.

On course to cure

Charity Bhebhe goes from A to Z on a medical mission. **36**

Translating change

Yaroslav Bekish transports U.S. lessons to Belarus. **42**



to Tempe, Arizona

Barrett, The Honors College undergraduate study of molecular biology and biotechnology and research in the Biodesign Center for Fundamental and Applied Microbiomics

**From
Bulawayo,
Zimbabwe**



On course to a cure

Prompted by the tragic death of her father, Cambridge scholar Charity Bhebhe has traveled from Zimbabwe to ASU to the UK on a medical mission.

Story by TELFORD VICE
Photos by JEFF NEWTON
AND DARRAN REES

Arizona and Zimbabwe are at opposite ends of the alphabet, and traveling from one to the other really has been a trip from A to Z for Charity Bhebhe.

The Arizona State University graduate from Barrett, The Honors College has made the journey, and those who don't understand what that entails should find her impression of ASU and Tempe instructive.

"It was very hot, but it's very well developed and the transport system is really organized," Bhebhe says. "There's free internet, there's hot water all the time, there's air-conditioning ..."

Besides hot summers, none of the above can be said of her native Zimbabwe, its economy and infrastructure severely stunted by hardships that began under British colonialism in the late 19th century and continues today. What citizens of the developed world would



to Cambridge, England

PhD in pharmacology
on a Gates Scholarship
at Cambridge
University

consider normal life is impossible to conduct in the African nation.

In the United States, for example, diarrhea is an easily managed inconvenience. In Zimbabwe, it can lead to death. Bhebhe's goal is to one day treat minor illnesses so she can change that harsh reality for the better, one patient at a time.

One of those patients might have been her father. She was 8 when he died from pneumonia after being misdiagnosed at a hospital

in Zimbabwe. That prompted Bhebhe to focus on the prevention of such unnecessary deaths, leading her to the latest stop on a 15,000-mile voyage from Bulawayo, Zimbabwe, to Tempe, Arizona, to Cambridge, England.

Now in the first stages of a PhD in pharmacology at the University of Cambridge, she was a Mastercard Foundation Scholar at ASU, where she majored in molecular biology and biotechnology in the School of Life Sciences. She earned a Gates Cambridge Scholarship, one of only 92 granted worldwide in 2018.

"My journey wasn't perfect," Bhebhe says, "but it successfully brought me to a beautiful ending, so I wouldn't change anything about it."



Bulawayo to Tempe: 9,489 miles

Bhebhe grew up in Bulawayo, Zimbabwe's second-largest city after the capital of Harare. It is home to more than 1.2 million people, a sleepy place of warm, open inhabitants where the streets were built wide enough to allow wagons pulled by 16 oxen to turn around unimpeded.

Zimbabwe lacks basic health care resources, which motivated Bhebhe: "My goal is to be able to apply my medical research skills in investigating and preventing diseases."

That led her to ASU and Barrett, The Honors College, which she

Banner year for Barrett scholars

Barrett inspires some of the world's best young scholars. In 2018, Charity Bhebhe was one of five major scholarship winners from Barrett. The other four:

Marshall scholar: Frank Smith III came out of the Arizona foster care system and received scholarship support to attend ASU. He earned degrees in political science and public service and public policy in 2018 and is ASU's 18th Marshall scholar. He will study comparative social policy at the University of Oxford in England.

Truman scholar: Alexa Scholl, a senior majoring in political science and Spanish, is ASU's fifth Truman scholar. She plans to attend law school.

Goldwater scholars: Barrett juniors Meilin Zhu and Humza Zubair are among the 22 ASU Goldwater scholars honored in the past decade, a top-10 ranking among U.S. universities. Zhu, a biochemistry major, wants to research technological solutions for global health needs. Zubair has been researching neural systems at Barrow Neurological Institute in Phoenix for four years.

chose to attend because of its "diverse and inclusive" community.

"I knew that I was going to fit in somewhere," she says. "There is a big international community at ASU, and that gave me an opportunity to work with people from diverse backgrounds. I became more accepting and open to learning about different cultures and trying new things."

But she was so shy, remembers Heather Bean, Bhebhe's mentor in the Biodesign Institute. "It was like pulling teeth to get her to talk about herself and her aspirations. The one thing she conveyed to me was that she was really enthusiastic about having a career in science."

That led Bhebhe to make one of her best decisions at ASU, Bean says, one that would set her apart from other scholarship applicants. Instead of waiting until her senior year, Bhebhe applied for a research project as a freshman. The Bean Lab became Bhebhe's favorite spot on ASU's Tempe campus: "It felt like home." She continued there until her graduation in 2018, demonstrating a thirst for knowledge and, Bean says, a "brain for soaking up scientific information."

"That was one of the key things for Charity when she interviewed for the Gates," Bean adds. "She could speak really eloquently about her research project because she knew it so deeply. I think honestly that is what made her stand out."

Tempe to Cambridge: 5,243 miles

For the next three years, Bhebhe's place is in Cambridge, where she is adjusting to the weather and trying to decipher what people are saying.

"Cambridge is beautiful," she says. "I've been enjoying seeing all these amazing old historic buildings, which I'd heard all these stories about before I came here."

"The weather's different, and that's taken a lot of adjusting. But the biggest thing I'm dealing with is that in the U.S. I got used to American English and here it's British English. My brain is struggling to process things; trying to go back to British English [widely spoken in Zimbabwe] after spending so many years

Charity's journey in pharmacology

After majoring in molecular biosciences and biotechnology at ASU, her goal is to bring new knowledge and therapies back to her home in Zimbabwe.



Foundation for change

The Mastercard Foundation Scholars Program is a comprehensive scholarship program that educates and prepares young people, particularly from Africa, to lead change in their communities.

ASU was selected as a higher education partner because of its strong commitment to global engagement, social embeddedness, sustainability and entrepreneurship.

Funded by a \$27.5 million grant, the program is housed in the Center for Advanced Studies in Global Education at ASU and will ultimately support 120 scholars from 20 countries who are collectively pursuing 70 majors.

thinking in U.S. English. I don't even know what I sound like anymore!"

It's mostly been a blur, she admits: "I honestly can't wait until I know what I'm doing! Hopefully that will happen soon. I don't know how I got the scholarship. I still ask myself, 'How did I even get here?'"

She's being modest. Bhebhe was one of 92 selected from nearly 5,800 applicants — a 1.5 percent probability of winning one the world's most prestigious scholarships.

"I do think I've worked very hard, and I'm really proud of myself that I've made it this far," Bhebhe admits when pushed. "It's a great opportunity. I've learned so much just from talking to the other Gates scholars. They're from all sorts of different backgrounds and they've all done amazing things."

If Bhebhe ever pauses to ponder her amazing journey, she might

"There's a lot more responsibility and expectation that come with being a grad student here. I don't know how I got the scholarship. I still ask myself, 'How did I even get here?'"

reflect on her middle name — Ntando, which translates as "will" in Ndebele, her native tongue. The more formal version, Ntandoyenkosi, means "will of God."

It could also be taken to mean she has the will to follow her winding path back to where she feels she is needed most: Zimbabwe. ■

Patent powerhouse

Skysong Innovations' record year enhances ASU's No. 1 reputation for innovation, linking research and business

Imagine diagnosing neurological diseases through speech, using solar-powered incubators to cure jaundice, and making drinking water anywhere out of thin air. What do these breakthroughs have in common?

They're Skysong Innovations.

ASU's technology transfer arm, which turns research into real-world impact with real-world economic benefits for Arizona, continues to set new benchmarks. In 2018, ASU researchers submitted a record 285 inventions to Skysong Innovations as ASU retained its title of nation's No. 1 most innovative school, according to U.S. News & World Report.

The university also ranks 17th worldwide for U.S. patents awarded, according to the U.S. National Academy of Inventors and the Intellectual Property Owners Association. ASU jumped 13 spots in the new rankings, ahead of Columbia and Duke.

ASU has established the model for U.S. universities, according to New York-based venture capitalist Yuquan Wang. Every year, he leads a delegation of Chinese corporate, investment and government representatives to U.S. universities in search of new investment opportunities.

"By connecting its high-potential startup companies with experienced management teams," he says, "ASU is supporting these companies in a way that all schools should emulate."




Zero Mass Water CEO Cody Friesen showcases the company's Source Hydropanels atop an office building in Santa Monica, California.

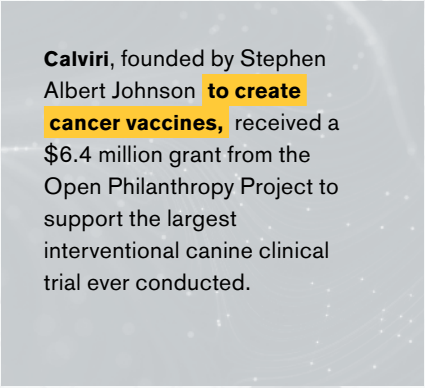
"The companies that presented at ASU had better, more market-ready pitches than any of the 50 other universities we have ever visited."

— YUQUAN WANG,
NEW YORK-BASED
VENTURE CAPITALIST


Zero Mass Water in Scottsdale, founded by ASU associate professor Cody Friesen, makes solar-powered systems that produce potable water from moisture in the air. A single solar panel can support a family of four. The company has installed systems around the world, including Puerto Rico following Hurricane Maria.



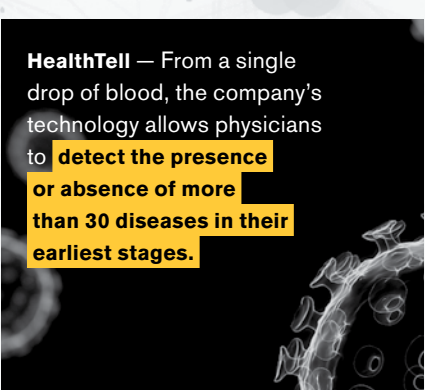
CYR3CON in Tempe, a startup by ASU researchers Paulo and Jana Shakarian, **provides analysis of darknet data** to predict cybersecurity threats.



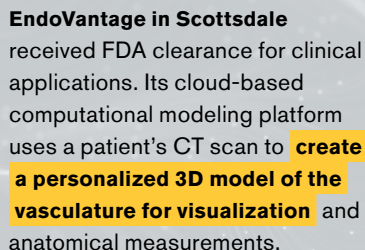
Calviri, founded by Stephen Albert Johnson **to create cancer vaccines**, received a \$6.4 million grant from the Open Philanthropy Project to support the largest interventional canine clinical trial ever conducted.



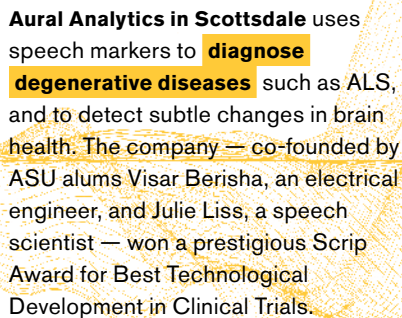
NeoLight in Scottsdale, founded by ASU alums Chase Garrett, Deepak Krishnaraju, Siva Palaniswamy and Vivek Kopparthi — **develops portable phototherapy beds using solar power** to treat jaundice, which can be fatal in infants.



HealthTell — From a single drop of blood, the company's technology allows physicians to **detect the presence or absence of more than 30 diseases in their earliest stages.**



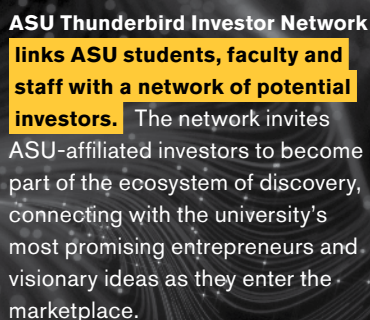
EndoVantage in Scottsdale received FDA clearance for clinical applications. Its cloud-based computational modeling platform uses a patient's CT scan to **create a personalized 3D model of the vasculature for visualization** and anatomical measurements.



Aural Analytics in Scottsdale uses speech markers to **diagnose degenerative diseases** such as ALS, and to detect subtle changes in brain health. The company — co-founded by ASU alums Visar Berisha, an electrical engineer, and Julie Liss, a speech scientist — won a prestigious Scrip Award for Best Technological Development in Clinical Trials.



California teamin' The ASU California Center, Skysong Innovations' Southern California **hub for entrepreneurial activities**, is the only nonlocal university member of the Alliance for SoCal Innovation.



ASU Thunderbird Investor Network links ASU students, faculty and staff with a network of potential investors. The network invites ASU-affiliated investors to become part of the ecosystem of discovery, connecting with the university's most promising entrepreneurs and visionary ideas as they enter the marketplace.

Making an impact

ASU-based technologies continue to dominate the market with a boost from Skysong Innovations. Impact by the numbers:

\$402.8 million

in gross state product

\$271.6 million

in labor income

\$50.5 million

Total venture funding

received by ASU-linked companies in 2018

4,152 job-years

\$36.4 million

in state and local tax revenues

188 new patents

filed in 2018

123 U.S. patents

issued in 2018

78 license and option agreements

signed in 2018

17 new startups

launched in 2018

\$1 billion

projected economic impact by 2022

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TRAINING

McCain Institute scholar Yaroslav Bekish uses leadership concepts learned in the U.S. to try to build a better Belarus.

Story by MAUREEN O'HAGAN

Photos by DARRAN REES



Yaroslav Bekish, above left, works on data-driven solutions to human problems in his native Belarus, including environmental and governmental issues.

He
is a big, grinning bear of a man from a country where, it is said, no one smiles.

He had applied for a prestigious leadership development program at ASU even though in his country “leader” is a dirty word and “character-driven leadership,” which the program touts, is untranslatable nonsense.

But in early 2017, Yaroslav Bekish was looking for a change. He had made his mark in Belarus leading the Green Network, working on democracy campaigns, climate change initiatives and other issues. His wife, Anastasia, a climate policy expert, was part of the country’s official delegation at the 2015

Paris Climate Agreement. But in some ways, Bekish’s work felt futile.

“I got the feeling that we can win some fights,” he explains, “but we couldn’t change the situation significantly.” Seeking new tools, he applied for the McCain Institute’s Next Generation Leaders program.

He was among eight 2017–18 fellows selected from nearly 1,200 applicants worldwide. His year as a McCain NGL was life-changing. Some of the lessons, it turned out, would come from unexpected places. Like small towns. And even playgrounds.

A landlocked country in Eastern Europe, Belarus won its independence from the Soviet Union in 1990. In 1994, Alexander Lukashenko became the country’s first directly elected president, and he’s been there ever since. The CIA labels him a dictator. The country remains economically dependent on Russia.

Average income is the equivalent of about \$500 a month. Most industry is government-run, making it unattractive for foreign investment.

The people feel powerless, according to Bekish. You don’t get a voice in public process. You can’t learn how government funds are spent.

But Next Generation Leaders often come from regions where the path isn’t easy, according to former U.S. Ambassador Michael C. Polt.

The idea is, giving the right leader the right boost can catalyze change. But even Polt,

who joined the McCain Institute after a 35-year career as a U.S. diplomat, and retired Lt. Gen. Ben Freakley, who mentor the participants, were taken aback during an orientation session introducing NGLs to American notions of shared values. They asked the group, what are your country’s values?

“My country has no shared national values,” Bekish pronounced to the group. Forget things like freedom, justice and country, he said. Instead, in surveys, Belarussians say their highest value is family, yet as he explained, they have high divorce rates. They say they value health, yet rates of alcoholism

“My country has no shared national values.”

—YAROSLAV BEKISH

and suicide are staggering. They say they value stability, yet they mistrust authority. Finally, Bekish wondered: Do universal values even exist?

As Polt took it all in, he knew they had on their hands a thought-provoking guy.

“He’s always questioning, always wanting to know more,” Polt says.

“It’s fantastic.”

In Belarus, local governments bend to the rulers in the capital, Minsk, with no real autonomy.

The Kansas City (Missouri) mayor’s office, where Bekish was placed by the McCain Institute, was different. He studied hard to



Yaroslav Bekish focuses his efforts on four areas of Belarus, a nondemocratic nation located between the European Union and Russia.

understand this new world — it “was like going to Mars,” Bekish remembers.

He pored over the city budget. He and the other NGLs had been instructed to play an active role in their assigned posts, so, in his first week, he made a presentation to his new colleagues.

“I said, ‘I have a plan for you how to be better,’” he recalls. Then he launched into his ideas — “about 1,000 of them!”

The assembled group nodded politely. Later, someone explained that half of the ideas had been implemented, some were barred by legislation, and perhaps you

ought to hold off for a bit, anyway.

“They said, ‘It looks like you came to our city with an approach like the city is a clean book, a book without any words and you can write it any way you want,’” he recalls. They went on, “We’ve been writing this book for 200 years already.”

Bekish didn’t feel shut down. “These people were honest and straight,” he says.

It was fantastic.

Bekish rented an apartment in Lenexa, Kansas, just outside Kansas City. When Anastasia and their three young children joined him, she noticed he spoke

Yaroslav Bekish, above with two of his children, is working with his team on innovations to improve life for his children and future generations in Belarus.



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differently. "I'm trying to think like an American diplomat and speak like an American general," he told her.

There were other differences. For example, spending family weekends in local parks felt like paradise compared to Minsk. "The best playgrounds in the world!" Bekish says. Back home, parks were dilapidated or littered with broken equipment. If people

"I was trying to think like an American diplomat and speak like an American general."

—YAROSLAV BEKISH

H

call the government to complain, nothing is done. Over time, they lose the will to care.

One phrase the McCain Institute stresses is, "It doesn't have to be this way," Polt says. That means "we can make it better." Bekish began to see the broken-down playgrounds differently.

He helped Bob Bennett, Kansas City's chief innovation officer, work on "Smart Cities"

Calling all mavericks

McCain Institute launches campaign encouraging a new generation to stand up and speak out

BY KAREN FERNAU

The late Sen. John McCain worked tirelessly for human rights, and now a nonpartisan initiative by the ASU institute in his name is doing the same.

The Mavericks Needed campaign, launched in 2018, encourages voting and for a new generation of mavericks to protect democracy and fundamental freedoms internationally.

"John always believed that nothing in life is more worthwhile than serving a cause greater than yourself — that's a legacy we're working to expand with this initiative," says McCain's widow, Cindy McCain, recently elected board chair of the Washington-based McCain Institute for International Leadership.

"Now that the elections are over, we're focused on the fundamental values that pull us together as Americans, rather than what divides us."

The campaign asks mavericks to sign a pledge to defend the dignity of all people, champion unpopular ideas, challenge the status quo and vote.

Why? "Because it's not about left or right ... it's about right or wrong," reads the pledge on mavericksneeded.org.

More than 5,000 mavericks from 42 states have signed the pledge inspired by McCain, a Republican war hero who earned the nickname "Maverick" while serving

Arizona as a United States senator for 25 years.

Although not limited to any generation, Mavericks Needed is largely aimed at college students.

"We want to engage more with young America, more college students like those at ASU," says Paul Fagan, director of the institute's Human Rights and Democracy program. "They are our future."



After the November elections, which drew a record turnout on the Tempe campus, Cindy McCain says the McCain Institute is "focused on the fundamental values that pull us together as Americans, rather than what divides us."

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initiatives — data-driven technological innovations that aim to solve human problems. Bekish came up with a plan to put environmental issues under that umbrella. Working off feedback from other departments, he made his presentation. This time, colleagues patted him on the back.

“I was the happiest person in Kansas City that day,” he recalls.

After 11 months in the U.S., he returned to Belarus and organized a conference to help officials there learn how technological innovations improved city life and saved money. Disappointingly, official Minsk wasn’t interested.

Then something odd happened: He began hearing from small towns. How can we serve our citizens better? How can we reinvigorate our economies?

“These regions are dying,” Bekish explains. “With this level of depression, they’re ready to talk to us.” They were so far outside the orbit of Minsk, officials didn’t pay them any attention.

“I would never have expected little cities would be so open,” Bekish says. “I realized I was wrong about the target.”

When Bekish began the program, his goal was to establish an independent civil society in Belarus. He now sees he was missing a few things. Business, for one. It’s tough to have a thriving civil society with a hopeless economy. The idea man thought: What about a business accelerator that would catalyze social projects? He decided he needed some business experience.



He started putting teams together. One is building an augmented-reality app for landscape design that will allow people to see how the sun will hit and how the plants will look over the seasons and years. He hopes to make it a viable business and use his share of any proceeds to fund his civil society work.



Yaroslav Bekish with Sen. John McCain in 2017, after Bekish earned a Next Generation Leaders fellow from the McCain Institute.

p

Here’s another one: an app to help citizens file government complaints. In Belarus, it is a major ordeal, involving “a huge bureaucratic machine to divide people from authorities.”

But what if a citizen could call up a chatbot app, and what if the chatbot could prompt them to describe their complaint? And — then — what if it could generate the properly phrased letter to the right department in the required time frame? And — when the complaint was ignored — what if the chatbot would use the proper protocols and finally generate a petition to get the work done?

Belarus, Bekish believes, is stuck in the 20th century. But maybe there’s some advantage there.

“We have people who are hungry for change,” he says.

A maverick in the John McCain tradition, Bekish wants to help lead the way there. ■

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ASU research meets global challenge

Fuel from an invasive pest in Nepal

Project: Netra Chhetri, an ASU associate professor who also is part of ASU's School of Geographical Sciences and Urban Planning, works with 29 communities in Nepal's Chitwan National Park to turn a killer weed threatening a fragile ecosystem into fuel, fertilizer and filter.

Solution: The teams collect heaps of invasive jungle vine and use charcoal kilns to create biochar. The fuel source adds nutrients and helps retain moisture in the soil. Chhetri is continuing to work on how to scale the solution and improve vine collection.

Impact: "This charcoal is better than the coal we mine," Chhetri says. "It increases productivity, and farmers don't have to buy these expensive chemical fertilizers."

Biochar in Nepal

"It increases the productivity, and farmers don't have to buy these expensive chemical fertilizers. The reaction was 'Wow.'"



v: engage in activity for enjoyment and recreation rather than a serious or practical purpose

Play

SHOWDOWN ON THE REZ

The many Navajo Reservation clans all share a passion for basketball — “Rez ball,” they call it. So it was more than a game when the ASU women’s team played Baylor on the reservation at Window Rock High School in November. It was a celebration of Native American culture, including the Navajo word “Yéego” — meaning “with much effort, greater intensity” — printed on the Sun Devils’ warmup shirts. “We won with the event,” says ASU coach Charli Turner Thorne.

ASU honored Michelle Tom along with three Diné (or Navajo, it can be used interchangeably) former players at the first Showdown on the Rez. Tom, Ryneldi Becenti, Kalene Carl and Rainy Crisp all served as guest coaches.

Living a football fantasy
ASU Law student helps kick off new league. **50**

Golfers’ paradise
ASU swings into premier new home. **52**

Wrestling brief
53

Living a football fantasy

ASU Law student Phil Ofili helps kick off new Alliance of American Football

Millions of fans play fantasy football every year, pretending to be football executives. But Phil Ofili is living out a real-life football fantasy as a first-year student in ASU Law's Master of Sports Law and Business program.

Ofili helps manage personnel for the promising new Alliance of American Football as a graduate assistant in a unique partnership between the league and the sports law and business program at ASU's Sandra Day O'Connor College of Law. The league plans to launch play following the National Football League's Super Bowl in February.

"It's like a dream come true," says Ofili, who played collegiately as a defensive back while attending the Air Force Academy from 2007 to 2012. "I'm on the path to where I want to go."

Much like a fantasy football owner who scours box scores and waiver wires to find the best available players, Ofili will be looking everywhere for talented

prospects. He will work with Russell Giglio, the AAF's director of player personnel, on maintaining a player database and managing leaguewide player personnel communications.

"We were looking for a young person who is passionate about the game, and Phil just fit that description perfectly," Giglio says. "Phil's heart is in football."

Football and the sports law and business program attracted Ofili to ASU. After completing his Air Force service, he moved to the Phoenix metropolitan area, where his fiancée (now wife) was completing graduate school at ASU.

"I knew I wanted to get back into sports in some facet, and after looking at different sports programs, I realized that one of the best in the country was right here

in my backyard," Ofili says.

Arizona's team in the Alliance of American Football will play home games in ASU's backyard — Sun Devil Stadium in Tempe.

The league also will field teams in Atlanta; Birmingham, Alabama; Memphis, Tennessee; Orlando, Florida; Salt Lake City; San Antonio and San Diego. The 10-week season kicks off Feb. 9 and will be televised by CBS and CBS Sports Network.

The league aims to be fan-friendly while also focusing on player safety, compensation, education and National Football League opportunities. In its partnership with ASU's sports law and business program, the league also hopes to create chances for potential future NFL executives like Ofili.

"I'm just very thankful not only for this opportunity with the alliance but also with the SLB program," Ofili says. "It's a one-of-a-kind program with a life-changing opportunity." ■



“I’m just very thankful not only for this opportunity with the alliance but also with the [sports law and business] program. It’s a one-of-a-kind program with a life-changing opportunity.”

— PHIL OFILI

ASU grads get fresh start on Arizona’s new team in the Alliance of American Football

Tempe has a new football team, and not just because the Arizona Hotshots of the Alliance of American Football will play home games at ASU’s Sun Devil Stadium.

The team’s first-year roster includes at least four former ASU players — linebackers Carl Bradford and D.J. Calhoun, defensive lineman Will Sutton and running back Demario Richard. Another former

ASU player also will return to Sun Devil Stadium — Mike Bercovici, ASU’s quarterback from 2011-15, was selected by the San Diego Fleet, which faces Arizona in Tempe on March 24.

The eight-team AAF kicks off its inaugural season Feb. 9 — a week after Super Bowl LIII — with Arizona hosting the Salt Lake Stallions at Sun Devil Stadium on Feb. 10.



The Arizona Hotshots are a new local team.



The Thunderbirds Golf Complex features practice areas designed by Phil Mickelson.

Square feet for a round hole

- 22,000-square-foot practice range tee
- 10,000-square-foot practice putting green
- 7,000-square-foot facility
- 5,600 square feet of synthetic-turf tee area
- 3,000-square-foot covered outdoor team patio

Golf

ASU swings into new world-class facility

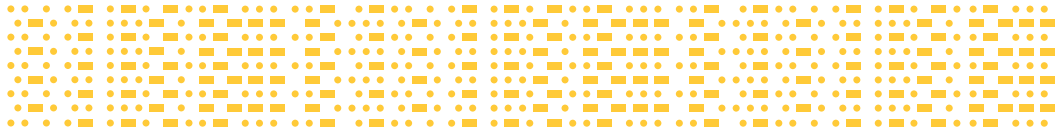
It's no surprise that the new home of Sun Devil Men's and Women's Golf looks like a major winner. The Thunderbirds Golf Complex at Papago Golf Course in Phoenix, which opened in November, was designed in part by Arizona State University alumnus and five-time PGA major champion Phil Mickelson.

The 7,000-square-foot premier facility, designed by Douglas Fredrickson Architects, features a grand entry lobby, national championship displays, a team gym and locker rooms

for both men's and women's teams, a fueling station, study lounge, team lounge, indoor hitting bays, golf lab and more.

Mickelson designed the expansive practice area, which covers four acres and includes five practice greens, four practice bunkers and a three-acre fairway and rough designed to practice every possible golf shot.

"A training environment unlike any in the world," says ASU men's head coach Matt Thurmond. "This incredible facility will attract the very best talent."



Wrestling

Sun Devils set to defend Pac-12 championship on home turf

When ASU's wrestling program grapples for its third consecutive Pac-12 Conference championship, they will have the home mat advantage.

The Sun Devils host the 2019 Pac-12 Wrestling Championships on Saturday, March 9, at Wells Fargo Arena in Tempe. Two-time Pac-12 Coach of the Year Zeke Jones and defending conference champions Zahid Valencia (174), Josh Shields (157), Anthony Valencia (165) and Kordell Norfleet (184) are set to defend their individual and team titles.

Last season's second straight title accomplishment was the first for the program since 2005 and 2006. The Sun Devils last won three consecutive conference titles when they won seven straight from 1985 through 1991.



From left: Anthony Valencia, Josh Maruca, Kordell Norfleet, Ryan Millhof, Tanner Hall, Josh Shields, Zahid Valencia and Christian Pagdilao



Positivity

made possible by you

ASU quarterback Manny Wilkins has taken some tough hits. Not all of them have been on the football field. Family drug abuse. Domestic violence. How did Manny transform personal pain into positivity, becoming a leading voice against sexual violence? When you give to initiatives at ASU that contribute to student success, you're the answer to that question.

We don't always see our generous donors, but you're always in the picture.



Together, our potential is limitless
GiveTo.ASU.edu

The future is brighter here.



Mirabella at ASU combines resort-style living with an inspiring university environment for an incredible retirement lifestyle. Elevate your continued learning experience in the magnificent auditorium, a haven of knowledge and discovery, or take advantage of your all-access pass to the more than 5 million books in the ASU library system—among many other university campus amenities. Living right on campus—in one of the largest view homes in the valley—puts a world of possibilities at your fingertips.

**Our new model home is open!
Schedule your personal tour
today: 602-777-7701**



M MIRABELLA. | **ASU**

1155 W. Rio Salado Parkway, Suite 110 | Tempe, AZ 85281 | 602-777-7701 | mirabellaliving.com/ASU

Mirabella at ASU is a nonprofit, resident-centered community developed in partnership with Pacific Retirement Services and Arizona State University. Equal housing opportunity. Apartment homes are unfurnished. Opening in 2020.

v: bring together or into contact so that a real or notional link is established

Connect

PHIL BEATS TIGER

ASU alum Phil Mickelson won more than \$9 million in his celebrated November showdown against Tiger Woods. He also won bragging rights against his longtime rival, winning The Match with a birdie on the 22nd hole.

Phil Mickelson won \$600,000 in side bets during his match against Tiger Woods and donated the money to charity. Woods won a \$200,000 side bet, which he also donated to charity.

Golden reward

ASU alum savors happy homecoming. 56

Class notes 57

Births, weddings 63

Sun Devil alum savors Homecoming reward



ASU alum Barry Dallum (middle), grand-prize winner of the Sun Devil Rewards' "I'm Coming Home" sweepstakes, celebrates his first-ever homecoming event with his brother Darrell and a member of the ASU spirit squad.

ASU alum Barry Dallum experienced an ASU Homecoming weekend in November he'll never forget.

Dallum won an all-expenses paid trip to his alma mater for homecoming weekend, the grand prize in Sun Devil Rewards' "I'm Coming Home" sweepstakes courtesy of Coca-Cola. Here he was, standing on the sideline — ground zero — at Sun Devil Stadium in Tempe during the ASU-Utah Pac-12 game won by the Devils, and mixing, mingling and meeting with ASU's undefeated 1970 Peach Bowl champs.

"It was incredible!" Dallum says, pausing to remember his most memorable moment during the weekend of festivities. "It's hard to pick out any single event; the entire weekend was awesome.

"The Legends Luncheon, seeing the Lantern Walk, parade and the game, where I served as an honorary captain for the coin toss. The autographed Tillman jersey I received is extra special. As my 4-year-old grandson says, 'I'm going to make a memory out of this!'"

Dallum entered the "I'm Coming Home" sweepstakes on the Sun Devil Rewards app,

which he's enjoyed over the last two years. "It's an easy means to locate ASU events near me and to stay current with school news," says Dallum, who divides his time between his homes in Pelican Rapids, Michigan, and Peoria, Arizona. "The games are fun also."

It also helped bring him back home to ASU.

The multiple-day experience was even more memorable because it was the first time Dallum, who graduated from ASU in 1978 with a BS in chemical engineering, had been able to attend homecoming. During his college years, he worked up to 40 hours per week as a laboratory and plant engineering aide for a vinyl record manufacturing company while enrolled in up to 17 credit hours of coursework per semester. He moved out of state after graduation and now runs his own engineering consulting firm, Enterprise Excellence Execution.

"Now that I have my own business I have more flexibility," Dallum reports. "This was a golden opportunity to finally make it back to homecoming!"



Another SDR sweepstakes, another chance to win

Sun Devil Rewards members are now entering for their shot at an Italian Peninsula cruise for two as part of

the loyalty app's newest sweepstakes: "Ciao, Sun Devils!" The chance to luxury-cruise from Rome to

Venice, with stops along the way, ends Jan. 31. For more details, visit sundevilrewards.asu.edu/cruise.

Looking for a chapter?

Here's your at-a-glance guide to ASU Alumni chapters across the country and by special interests. You also can find links to these chapters at alumni.asu.edu/chapters.

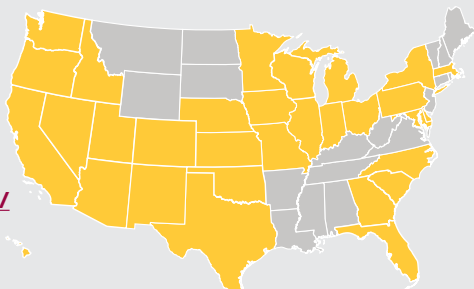
Facebook Instagram
LinkedIn Email

Special-interest chapters

- Aguila
- ASU Black Alumni
- ASU Chinese Alumni Club
Xiaojie.Li@asu.edu
- Catholic Newman Center
matkins@asucatholic.org
- Devil's Horns
- Devils' Advocates
- Doran Community
Scholars Alumni
businesscordova@gmail.com
- Hispanic Business Alumni
- Iranian American Club
- LDS ASU Alumni Chapter
- Leadership Scholarship Program
- LGBT Devils' Pride
- Los Diablos
- Medallion Scholars Alumni Club
- Native American Alumni
- S DFA Scholar Alumni
keelyn.smith@asu.edu
- State Press Club
writejodie@yahoo.com
- Stickmens Club
jminder@asu.edu
- Veterans

Don't see a chapter you're looking for? Send an email to Trish Thiele-Keating, director of chapter relations, at trish.thiele-keating@asu.edu

Connect with your chapter at alumni.asu.edu/chapters



Connect locally in your city

- Austin, Texas
- Chicago, Illinois
- Colorado (Denver)
- Dallas/Fort Worth, Texas
- Flagstaff, Arizona
- Florida (Miami)
- Georgia (Atlanta)
- Hawaii (Honolulu)
- Houston, Texas
- Idaho (Boise)
- Indianapolis, Indiana
- Inland Northwest (Spokane)
- Las Vegas, Nevada
- Los Angeles, California
- Michigan (Detroit)
- National Capital (Washington, D.C.)
- Nebraska (Omaha)
- New England (Boston)
- New York (New York City)
- North Carolina (Charlotte)
- Northern California (San Francisco)
- Northern Colorado (Ft. Collins)
- Ohio (Columbus)
- Oklahoma (Oklahoma City)
- Old Pueblo (Tucson)
- Orange County, California
- Philadelphia, Pennsylvania
- Portland, Oregon
- Prescott, Arizona
marlenecurtis@hotmail.com
- San Antonio, Texas
- San Diego, California
- Seattle, Washington
- South Carolina (Charleston)
- 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

Meghan Coppock '16 BS sociology has recently been named local development and events manager by Save the Family Foundation of Arizona after previously serving as a client service liaison. Among her manager's responsibilities will be the successful execution of the agency's annual signature event, Hearts of Gold Gala, including obtaining sponsorship and donations, budgeting and tracking.



Casey Clowes '14 BS public service and public policy, '17 JD

has joined the law firm of Beus Gilbert as an associate attorney. A two-degree Devil, Casey has served her alma mater as a Sandra Day O'Connor College of Law Gold 'n Gavel board member and as ASU chair of Aunt Rita's Foundation. She joins Beus Gilbert from the ASU Alumni Law Group.

Buu Van Nygren '12 BS construction, '17 MBA is currently a doctoral student at USC and was selected as the running mate to Navajo Nation presidential candidate Joe Shirley Jr. in the tribe's 2018 general election.

Erika Acorn '14 BS nutrition has recently accepted a position to serve as business development specialist for the Tempe (Arizona) Chamber of Commerce. She is developing

and implementing programs to increase the organization's membership and sponsorship opportunities.

William Kiser '11 MA history, '16 PhD history has released his book, "Coast-to-Coast Empire: Manifest Destiny," which explores the complexity of the westward-ho Manifest Destiny in America, while also bringing greater clarity and understanding of America's formative years.



Judy Chasse '10 BS business administration

has been named the National Exchange Club's Southwest District Exchange of the Year. The business development manager at Bell Mortgage in Phoenix, Judy has been a member of the Exchange Club of Tempe (Arizona) for five years and was honored among nominees from local chapters in Arizona, New Mexico and western Texas.

Amanda Rowe '10 BA English literature recently announced the launch of her business, Third Generation Dental Prosthetics in Kootenai County in Idaho. The mobile denture service is dedicated to serving patients who are in rehabilitation homes, care centers and hospice care and are unable to visit a clinic for care and treatment.

Alumni in the news

ASU grad fights wildfire with fire in California

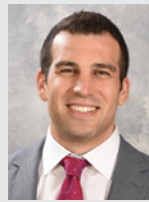
News event: As the deadliest and most destructive wildfires in California's history continued to rage, resulting in nearly 100 deaths and more than 900 people missing, somber questions arose: Is humankind contributing to the deadly magnitude of wildfires? How can we be better stewards of the land at a time when lives are at stake? The questions cast a spotlight on the research of an ASU alum whose archaeological study of indigenous tribes in California reveals that their ancient fire management practices may hold important answers today.

Alum: Kent Lightfoot '81 PhD anthropology is a UC Berkeley anthropology professor and author of the book "Indians, Missionaries, and Merchants: The Legacy of Colonial Encounters on the California Frontiers" and co-author of "California Indians and their Environment: An Introduction."

His research reveals: California's indigenous people created and



managed patchworks of grasslands, scrubland and conifer and oak woodlands to increase the productivity of the plants and animals. They burned excess scrubland, for instance, turning it into grasslands, which produced plants that provided food for people and attracted wildlife that could be hunted. Lightfoot isn't certain whether fire management was the primary goal of their practices, but this approach likely reduced major fires through fuel reduction. Lightfoot says prescribed burning and thinning can reduce fuel loads and provide fuel breaks, minimizing catastrophic fires.



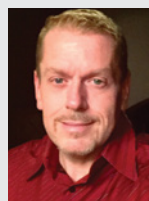
Ahron Cohen '10 JD has been promoted to president and CEO of the National Hockey

League's Arizona Coyotes. Ahron, a magna cum laude Sun Devil and an ASU Sandra Day O'Connor College of Law Inn of Court, now oversees all business operations and legal matters, strategic planning, significant organization decision-making and government relations.

2000s

Patrick Huey '09 MBA has published his first book, "History Lessons for the Modern Investor." Patrick's advice is based on an exploration of historical tales that reflect "the smartest money move you can make is to turn back time." Patrick is also the 2016 founder of Victory Independent Planning and served nine years as a U.S. Navy flight officer.

Bojan Louis '09 MFA creative writing has earned an American Books Award from the Before Columbus Foundation for his debut poetry collection, "Currents." Bojan, who teaches languages and cultures coursework at ASU, is a Navajo Nation member and the poetry editor for Red Ink: An International Journal of Indigenous Literature, Arts & Humanities. He tells his stories in "Currents" in three languages: English, Diné and Spanish.



Jeff Holeman '08 MEd higher and post-secondary education, once an ASU

Alumni staffer, is now the vice president of enrollment strategy,

marketing and communications at Keene State University in New Hampshire. In his new position at the four-year public liberal arts institution, Jeff is responsible for a wide array of services, including admissions, financial aid, branding, marketing and public and community relations.

Patrick Fanning '08 BMus performance (collaborative piano) recently made his Broadway debut playing keyboard for "Charlie and the Chocolate Factory" at the Lunt-Fontanne Theatre, a Broadway theater in New York City, and has joined the first national tour of "Hamilton: An American Musical" as music associate.

Jeffrey Okrepkie '07 communication was recently installed as the national president of Active 20-30 U.S. & Canada, a nonprofit organization made up of young adults in their 20s and 30s that helps underprivileged youth through hands-on work and fundraising.

Matthew Lane '07 BS accountancy was recently named Chief Financial Officer of the Year by the Sacramento (California) Business Journal for his work at Yolo Federal Credit Union, where he oversees \$190 million in loans. Matthew was also asked to serve on the global advisory board for the CFO Alliance Inc.

Martha Mauer '07 BA journalism/mass communication has been promoted to the role of news director at Phoenix-based KTAR Radio. Martha is the first female and first Latina news director at the station in its 96-year history. Prior to her advancement, she had been the station's breaking news editor and assistant news editor for more than six years.

Buyback Boss leads, pays it forward to ASU grads



Most flagship smartphone series are updated with new releases every year. When consumers upgrade, what happens to all those used devices? Re-commerce, or “reverse commerce,” is when consumers sell their used devices to be repaired, if necessary, and reused, recycled or resold. Buyback Boss is one of the leading trade-in platforms in the industry.

Jack Wight '14 BS marketing, the company's founder and CEO, has entrepreneurship in his DNA. At 12 years old, he started his own pet-sitting company. By the time he was in high school, he was buying, repairing and reselling used smartphones, first with friends and then on Craigslist.

In his freshman year at ASU, Wight met his future business partner and COO, **Carrie Dougher '15 BS computer information systems**. They were actually next-door neighbors in Agave Hall, part of Barrett, The Honors College residential complex.

“It was a very good floor assignment for me. Our

marketing guy was also on the same floor,” shares Wight.

Soon enough, Dougher had helped Wight implement an inventory management system so Wight could scale the business faster. After graduation, Wight was able to convince Dougher to come aboard full time, and that's when things really took off for Buyback Boss.

As Wight puts it, “There were other companies doing the buyback thing. Our perspective is that just because something has been thought of doesn't mean we can't do it better. We're able to offer much higher price points for our customers' devices because we created a network of domestic and international wholesale buyers.”

Adds Dougher, “I think we're the best in the industry in focusing on the customer. A lot of what we do requires trust. Our customers are sending us their device(s) before they get paid. We send out boxes with customer reviews printed right on them. Live chat, personable email campaigns, having our phone number on the site,



Carrie Dougher and Jack Wight turned their ASU degrees into a thriving enterprise and career opportunities for fellow grads.

texting our customers ... it all makes a difference to the customer. We've explored every single channel possible to make the process easier.”

Buyback Boss currently has 11 full-time staffers and is in constant hiring mode to keep up with demand. Every single employee hired to date has been an ASU graduate or student. In recognition of their entrepreneurial achievement, Wight and Dougher were recognized as members of the Sun Devil 100 Class of 2018.

“Our perspective is that just because something has been thought of doesn't mean we can't do it better.”

— JACK WIGHT '14
BS MARKETING, BUYBACK
BOSS FOUNDER AND CEO

John Hoover '05 MBA has recently been named one of seven new members of the Arizona Science Center board of trustees. Also a member of the center's prestigious President's Club, John is managing director and investment team lead for JP Morgan Private Bank, Arizona.

Kristin Smith '05 BA communication has authored a children's book with advice on how to discuss the topic of bullying with a younger audience. “Kona and the Dog Park Bully” features a pack of puppies that are each bullied for reasons schoolchildren may be able to relate to.

Jeremy R. Alberts '04 BS justice studies has been selected as 2019 Mountain State Super Lawyer Rising Star by Super Lawyers magazine for his work on defense in civil litigation. Jeremy is a partner at the Las Vegas-based firm of Weinberg Wheeler Hudgins Gunn & Dial.

Matthew MacLean '04 BA interdisciplinary studies has been recognized as a Top Next Generation Wealth Advisor by Forbes magazine for his work at Ameriprise Financial. Forbes ranks Matthew among the 1,000 most talented advisers representing the future of wealth management in the country.



Tillman Honor Runs in your town

Can't make it to Tempe for Pat's Run commemorating Pat Tillman? Find a run in your neck of the woods and commemorate a hero

ASU Alumni, in partnership with the Pat Tillman Foundation, is proud to organize the annual Tillman Honor Runs nationwide to help honor fallen U.S. soldier and Sun Devil Pat Tillman and his legacy of service.

These runs are coordinated around the country by ASU Alumni chapters. Visit alumni.asu.edu/events/tillman-honor-runs for details. Don't see your city listed? Go to patsrun.com to sign up as a remote runner.



Alexander Benezra '03 BS political science has opened his law firm, Law Offices of

Alexander S. Benezra. Licensed in Arizona since 2008, Alex is also busy with a recent Arizona Supreme Court appointment to serve on the Post-Conviction Actions Task Force, which considers proposed amendments to existing laws and statutes.

Peter Kulas-Dominguez '03 BA English literature

has been honored by the Grand Rapids (Michigan) Bar Association as a top young professional for "exceptional professional achievement, superb public service and significant contributions to the legal profession" as senior counsel at Warner Norcross & Judd.

Rebecca Clyde '02 MBA, co-founder of Ideas Collide, has been elected to a three-year term on the Arizona Technology Council board of directors. Rebecca previously worked at Intel and is the co-founder of the Phoenix chapter of Girls in Tech.

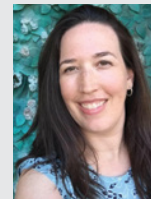
James Cassel '01 BS political science has been appointed director of Oregon sales for Seattle-based First Choice Health. James joins First Choice with a background of 14 years in strategic sales and market development in the health care industry, including previous responsibilities with Providence, Cigna and Humana.

Bethany Johnson '01 BSD architectural studies is in a new role, science and technology studio leader, at Chicago design firm SmithGroupJJR. Bethany's responsibilities now include

expanding the company's project portfolio and supporting the firm's existing initiatives. She brings more than 15 years of architecture experience to her new position.

Jennifer Tetreault '00 BS political science has been selected to serve on the Valley of the Sun United Way's Women United Global Leadership Council to bring women together to help provide and foster better education, health and financial stability for communities around the globe.

1990s



Melanie Thiesse '99 BA interdisciplinary studies recently

accepted the position of director of school accreditation for the American Montessori Society in New York City. She is vice president of the local public school board as well, and serves on numerous other nonprofit education boards.

Nate Hoelzen '98 BA broadcast journalism is now president of the Arizona School of Real Estate & Business in Phoenix after previously serving the school as director of operations. Nate is also publisher of the school's monthly real estate communiqué, the Arizona Journal of Real Estate & Business.



Richmond Vincent Jr. '96 BS political science, '02 MBA has

been named president and CEO of Goodwill Industries of South Mississippi after serving as senior vice president for Goodwill Industries

of Central and Northern Arizona. Vincent will help oversee Goodwill's Leroy Modenbach Training Center, which offers classes in adult education, and he will focus on increasing job growth in the region.

M Randy Voigt '95 BS management, '98 MBA has recently been named to a seat on the Arizona Science Center board of trustees. Randy is a portfolio manager at American Express in Phoenix.

Laura Stewart '94 BA sociology is now executive director of Recovia, a functional opioid detox program based in Scottsdale, Arizona. Working with veterans and addicts to recover from PTSD and opioid addiction through clinical neurobiology, Laura is an active member of the National Academy of Neuropsychology and the Arizona Psychological Association.

Judy Aldrich '94 EdD educational administration is the recipient of the 2018 Outstanding Community Leadership Award, presented by nonprofit Tempe (Arizona) Leadership. Judy serves on no less than five City of Tempe boards and commissions and has received similar recognition from Kiwanis of Tempe and the East Valley Boys & Girls Club.

Darin Sender '93 BSD architectural studies has been honored as Business Woman of the Year for 2018 by the Tempe (Arizona) Chamber of Commerce. Darin is president and founder of Sender Associates in Tempe. She currently teaches zoning and land-use law in the graduate real estate development program at the W. P. Carey School of Business.

Torrie Taj '91 BS psychology has recently been honored by the Phoenix Business Journal as one of the Valley's Most Admired Leaders for her philanthropy and leadership work as CEO of Child Crisis Arizona.

M Catherine Comer '90 BS accountancy continues to garner recognition for her community service. Cathy was recently presented with the Judith Krebs PHR Memorial Volunteer of the Year award by the Arizona Society of Human Resources Management. She has served as president of the Junior League of Phoenix and is on the organization's board of directors, and has volunteered with Big Brothers and Big Sisters and the Arizona Humane Society.

1980s

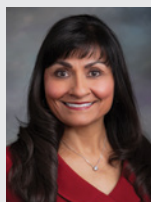
His Excellency Sultan Saeed Nasser Al Mansoori '88 BSE industrial engineering and management systems celebrated his 10th year as the minister of economy of the United Arab Emirates in 2018. During his decade-long tenure, despite fluctuating oil prices, the UAE has enjoyed a robust economy, based in part on a progressive policy of economic diversification, free zones and increased foreign direct investment.

M Gregory Whitney '88 BS real estate has been appointed to the position of senior vice president of the West Coast Retail Development team for Jones Lang LaSalle. Greg has directed almost 40 redevelopment projects throughout his career, including the development of the new LA Stadium and Entertainment District at Hollywood Park in Southern California.

M Daniel Shilling '87 PhD English recently co-edited a book that has been published by Cambridge University Press. The book, "Traditional Ecological Knowledge: Learning from Indigenous Practices for Environmental Sustainability," features a selection of essays exploring TEK through compelling cases of environmental sustainability from multiple tribal and geographic locations in North America and beyond.

Michael Adamson '86 MBA recently published his second book, entitled "Oil and Urbanization on the Pacific Coast: Ralph Bramel Lloyd and the Shaping of the Urban West." Michael's read is about turn-of-the-20th century California businessman-turned-oil tycoon Ralph Lloyd.

Brian LaCorte '85 BS justice studies, ASU student body vice president in 1985, was named Phoenix-area 2018 Lawyer of the Year for trademark law by Best Lawyers in America. Brian is a partner at the law firm Ballard Spahr and represents clients before federal district courts, the U.S. Court of Appeals for the Federal Circuit and the Trademark Trial and Appeal Board.



M Ignacia Marquez '85 BA broadcasting has dedicated more than 30 years to city

government leadership in Valley of the Sun communities Phoenix, Tempe and Chandler. "Nachie" served as the Super Bowl XXX coordinator for the City of Tempe and has conducted national and international workshops on local government communications. She recently retired as assistant city manager in Chandler.

1970s



Melissa Joseph '77 BA French, '79 MA English has written and released two

new books. "Moments with Baxter" features 36 true and touching stories, about "the poignant connection between Baxter, a 19-year-old therapy dog, and the hospice patients and their families to whom he brings comfort and love." Melissa's memoir "A Tender Force" is a collection of 100 poems covering topics ranging from tenderness and suffering to connection and sensuality.

M Teresa Araas '77 BA physical education, '78 MS physical education, '08 PhD physical activity, nutrition and wellness, a three-degree Devil and lifetime ASU Alumna member, was recognized in 2018 with Rocky Mountain University of Health Professions Adjunct Faculty of the Year honors. A teacher at the university since 2012, "Teddy" earned the award for excellence in teaching and mentoring doctoral students on the Provo, Utah, campus.



Paul J. Faith '75 BS quantitative systems was recently re-elected to his fifth term on

the Litchfield Park (Arizona) City Council. Paul has served as the town's vice mayor since 2004. Listed in the 2018 edition of "Best Lawyers in America" and "Southwest Super Lawyers," he is the founder of law firm Faith, Ledyard & Faith.

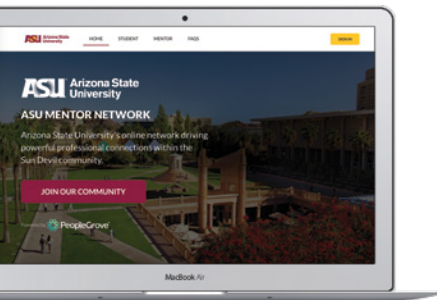
ASU mentoring on demand

Connections matter

Whether you are seeking an introduction to a specific industry, looking for guidance on your career or life path, or interested in connecting and inspiring Sun Devils, the opportunity to link through mentorship can be priceless.

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Students and recent grads:

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- Learn from those who have been there, done that.
- Grow your knowledge base of real-world experiences.
- Ask the experts.



Alumni and community professionals:

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Frank Quijada '75 BS aerospace engineering

has been named the Tempe Community Council's 2018 Don Carlos Volunteer of the Year. Dedicated to serving the community through his work at the nonprofit Tempe Neighbors Helping Neighbors, Frank joined TNHN after retiring from Honeywell in 2015. He currently serves TNHN as its special programs coordinator.

Gary Tillery '72 BA history, '73 MBA international history

(Thunderbird School of Global Management) has authored a one-of-a-kind novel that reads as a nonfiction account, narrated by Mary of Magdala, of Jesus' two-year mission. "Yeshua, My Beloved" is based on decades of New Testament research and the insights of the 150-member Jesus Seminar panel. The spine of the narrative is built on the words and deeds of Jesus the group determined to be authentic, with depth and color added from the research of dozens of other scholars.



Ardine Martinelli '71 MA education (counseling psychology) recently

self-published her book, "Listening to My Life: My Journey Through Fear to Trust." The read focuses on learning to trust her intuition and inner wisdom while on a journey to take care of herself despite a conflicting upbringing.

1960s

Howard Pink '66 BMus music recently presented his solo show, "Howard Pink and His Musical Garden Hoses." He also recently performed during a weeklong celebration

of the 50th anniversary of The International Horn Society at Ball State University in Muncie, Indiana, with more than 600 other performers.



Christine Wilkinson '66 BA education, '76 PhD higher education

administration, ASU senior vice president and secretary of the university, president and CEO of the ASU Alumni Association, and managing director of the Trustees of ASU, has been named the 35th recipient of the Don Carlos Humanitarian Award by the Tempe (Arizona) Community Council. The award honors individuals who have made Tempe a better place to live through impactful and lasting work that addresses human service needs in the city. It is the city's most prestigious distinction.

1950s

Col. Arthur Surovic, USAF (Ret.) '57 BA education has authored "The Texas Tetrad." The book follows the courage and sacrifice of the four Burkett brothers ("tetrad" is defined as a group of four), from their arrival in the Lone Star State in 1829 through the Civil War as they battle Comanches and cattle rustlers, the Mexican army of Santa Anna and the Confederate forces at the battles of Chickamauga and Chattanooga during the War Between the States.

Sun Devil births



Easton McDowell Ellinwood was born to a pair of Sun Devil alumni, **Ashley Ellinwood '09 BS tourism development and management, '11 MED curriculum and instruction** and **Todd Ellinwood '08 BS marketing**, on Sept. 15, 2017.

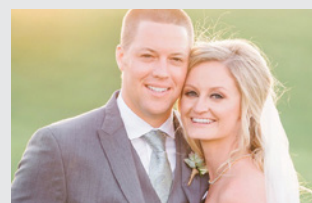


Aiden Allen was born to ASU alumni **Danielle Lansin '11 EDD education administration and supervision** and **Christopher Allen '11 BA interdisciplinary studies** on Feb. 24, 2018. Aiden's grandfather is Sun Devil alum **Johnnie Allen '92, MSW social work**.



Jackson Matthew Reilly is a new "Little Devil," born to **Mallory (Bioletto) Reilly '12 BA elementary education** and **Matt Reilly** on Oct. 30, 2017, in Phoenix. Jackson better be ready for some football: Mom and Dad have been Sun Devil season ticket holders for seven years.

Sun Devil weddings



Sun Devils unite! **Brett Rymer '12 BA communication** and **Kathryn (Crown) Rymer '12 BS marketing** were married on April 14, 2017, at the Arizona Grand Resort in Phoenix. They currently live in Ventura, California.

Celebrate your wedding in ASU style at Old Main

Your wedding day is one of the most important days of your life, and Old Main at ASU offers an elegant and historic venue in which to hold your ceremony and exchange your vows.

Visit oldmain.asu.edu for more information.





Then and now:

Valley National Bank dome to Om Under The Dome

A bank with an iconic gold dome once stood where Barrett, The Honors College at ASU now sets the gold standard for higher education. Built in 1962, the Valley National Bank building in Tempe was demolished in 2007, but its landmark geodesic dome still glitters. Today, the 90-foot-wide aluminum canopy, originally designed by R. Buckminster Fuller in the 1950s, is home to Om Under The Dome, a free beginner's yoga program, as well as other events at the college's unique 10-building residential community, Barrett @ Vista del Sol.

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Come check out Tommy Bahama, Johnny O, League and Adidas gear! Limited quantities available. Some items only available in stores!

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bit.ly//ASUApple

Visit the stores on the Tempe Campus

Sun Devil Marketplace | 660 S College Ave, Tempe, AZ | 480-965-4488
 Sun Devil Campus Store | 525 E Orange St., Tempe, AZ | 480-965-3191



 Authorized Campus Store
 Authorized Service Provider

 SUN DEVIL
 MARKETPLACE

 SUN DEVIL
 CAMPUS STORES

 Trade-in Trade-up
 Trade in older hardware

Microsoft

 Authorized Campus Store
 Authorized Service Provider



*ASU Alumni or student verification required to purchase. See store for details. Online prices reflect the education discount. With online purchase include your month/year of graduation in the comments section. Sun Devil Marketplace is the Apple Authorized Service Provider location. TM and © 2018 Apple Inc. All rights reserved.



Lifelong learning made possible by you

When retirees Laura and Herb Roskind audited classes in ASU's Institute for Human Origins, they had no idea the experience would inspire their passion and philanthropy. But through a charitable gift annuity, Laura and Herb have created — and benefited from — academic opportunities for students and faculty.

We don't always see our generous donors, but you're always in the picture.