

Coloradan

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NOW

FEBRUARY 9, 2022

After a complete renovation, the Table Mesa location of Boulder's King Soopers reopened Feb. 9, 2022. The store closed temporarily after a shooter killed 10 people at the store, including a Boulder police officer, on March 22, 2021.





COVER The Dec. 30 Marshall Fire burned more than 6,000 acres and over a thousand structures in Louisville, Superior and unincorporated Boulder County, Colorado. Photo by **Hart Van Denburg** (MJour'03).

ABOVE Late last year, Ashleigh Lawrence-Sanders, CU Boulder assistant professor of U.S. and African American history, competed on the first professors tournament of *Jeopardy!*. She placed third. Photo courtesy of Jeopardy Productions, Inc.

DEPARTMENTS

- 1 NOW King Soopers
- 5 INQUIRY d'Andre Willis

- 7 Campus News
- 8 Boulder Beat Paul Danish
- 13 LOOK Campus

- 15 ORIGINS Old Main Cottonwood
- 29 INFOGRAPHIC Shakespeare Gardens
- 43 Alumni News

- 45 CU Around
- 47 Chancellor's Essay
- 49 Sports

- 55 Class Notes
- 61 Feedback
- 65 THEN 1958

EDITOR'S NOTE

On Dec. 30, I sipped coffee at Caffe Sole as hurricane-force winds crashed over the Flatirons. Customers were stunned — unsure where to go as winds swirled into dusty cyclones and awnings quaked, tearing at the building's facade. These winds fueled the Marshall Fire — the most devastating wildfire in Colorado history.

This fire as well as other recent tragedies — the King Soopers shooting and the Calwood fire in northwest Boulder — will leave indelible marks on CU Boulder's students, faculty and staff. And they will impact and inform future research, teaching and creative works.

In the midst of nearby tragedy, this *Coloradan* aims to celebrate Buffs' successes while exploring topics like the future of work, the Chicano movement and women's health in Bangladesh. I hope it bolsters you as part of the Forever Buffs community because, as we've recently witnessed firsthand, we are stronger as Buffs Together.

Maria Kuntz

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CU Boulder's Architect

Last October, d'Andre Willis began her role as CU Boulder's campus architect and director of planning. She is the first woman to hold the position. Here she discusses her favorite buildings, sustainable design and why she chose to work at CU Boulder.

d'Andre Willis pictured in front of the Hellems Building, her favorite on campus.

What inspired you to become an architect?

I have always had a deep response to buildings — both as objects and as habitable spaces. I remember trips to Chicago as a kid and being wowed by individual buildings that looked cool to me and intrigued by the way the buildings conversed with each other in the city. At that age, I drew a lot of plans for dream homes; most of them had streams running through them and trees growing inside.

Why did you want to work for CU Boulder?

I am passionate about the link between the physical environment and the culture of a place. The focus of my career has been on creating public spaces that have an impact on making communities

better, and it's an honor to be asked to steward a physical campus of CU Boulder's quality in support of the academic mission, culture and people of the university.

What is your favorite building on campus?

Often an architect's favorite building is their current project, and by that measure I am most passionate about the Hellems Arts and Sciences Building. Hellems is so important to campus — it's a key part of our historic Norlin Quad, a center for teaching where nearly all undergrads take at least one class and the first building on campus designed by Charles Klauder in the Tuscan Vernacular style.

Unfortunately, within the wonderful exterior of Hel-

lems, the classrooms and other spaces for faculty and students aren't up to the quality that the university needs. Currently we're in the early design phases of a project that will renew all of Hellems to create a dynamic and welcoming hub for learning while taking care of the historic fabric for the next 100 years of this important building's life.

What's your favorite building in the world?

I'd like to take that question in a different direction and tell you about one of my favorite places in the world. I love buildings in their context, particularly cities and campuses, where structures, landscape and public art shape outdoor spaces that are joyful and energetic. Dearborn Street through Chicago's

Loop, for instance, is a place where buildings and sculptures create a string of amazing public spaces.

You can start near the south end with wonderful historic structures like the Monadnock Building; then traverse Federal Plaza, which is ringed by Mies van der Rohe's Federal Towers, his luminous post office and the historic Marquette Building by Holabird and Roche with its ornate lobby and Calder's exuberant flamingo sculpture anchoring the center. Continue north to the Chase Bank Plaza with Chagall's Four Seasons mosaics. Last and not least is Daley Plaza, where the stately columns of the city and county building and the groundbreaking Daley Center tower designed by C.F. Murphy in COR-TEN steel shape a plaza enlivened with sculptures by Picasso and Miro.

How does sustainability factor into everyday thoughts about design, especially here in Boulder?

The negative impacts that buildings have made to climate change, habitat loss and other ecological damage is clear: We can do better and we must. CU has been a leader in sustainable design, and I look forward to continuing to push the bar higher on our new construction and renovation projects.

Sustainable design works best when it is an integrated effort working simultaneously on many different fronts. These efforts include stewarding our existing buildings so that they can continue to

serve the university for years to come, creating buildings that are resilient to natural and human-caused events, decarbonizing through changing fuel sources and reducing energy usage in both new and existing buildings. Also, buildings need to contribute positively to the health and wellness of the people who use them, such as by connecting to the amazing natural environment all around us here in Boulder.

How do you strike a balance between traditional design styles and innovation?

I'm new to campus, but from my first moments here, I've been impressed by the reverence in which the Klauder buildings in the historic core are held. These buildings are treasures, and CU is known across the country for their standard of beauty. I'm also excited by the

the understanding that the profession needs to expand to include diverse voices and people from diverse backgrounds. Change is slow, but steady. I've seen significant change in the span of my career in the number of women in leadership positions in the profession, and am honored to be the first woman to serve as CU Boulder's campus architect. I am encouraged by the serious efforts underway to create lasting gains for LGBTQ people, and Black, Latinx, Indigenous and other people of color in the profession.

What do you like to do for fun? My favorite outdoor activities are nature walks, biking and rowing; sculling in single person boats has been a favorite activity enjoyed by my husband and me for many years. I also enjoy playing music, particularly

IT'S AN HONOR TO BE ASKED TO STEWARD A PHYSICAL CAMPUS OF CU BOULDER'S QUALITY.

opportunities in East Campus, north of Boulder Creek and Williams Village to explore aesthetic expressions that expand the campus identity and create a sense of neighborhood and community.

What is most different now for someone entering the architecture field today than in the past? One of the major differences is

in ensembles with other people. My pandemic creative outlets have been learning to play keyboard and doing weekly watercolor sessions with my two sisters via Zoom.

Anything else we should know about you? I start my day with the KenKen puzzle in the *Daily Camera*. INTERVIEW CONDENSED AND EDITED BY CHRISTIE SOUNART (JOUR'12)

Unlearning Pain

Psychological therapy shown to help chronic pain patients

One in five Americans have chronic pain, an intractable condition that costs the U.S. \$600 billion annually and is fueling a deadly opioid epidemic.

New research provides some of the strongest evidence yet that a psychological treatment can provide relief.

“For a long time, we have thought that chronic pain is due primarily to problems in the body, and most treatments to date have targeted that,” said lead author Yoni Ashar, who led the study while earning his PhD in the Department of Psychology and Neuroscience. “This treatment is based on the premise that the brain can generate pain in the absence of injury or after an injury has healed, and that people can unlearn that pain.”

Approximately 85% of people with chronic back pain have “primary pain,” meaning tests are unable to identify a clear bodily

source. Misfiring neural pathways are at least partially to blame: In chronic pain patients, certain neural networks — like a false alarm stuck in the “on” position — become sensitized to overreact to even mild stimuli.

Pain Reprocessing Therapy (PRT) seeks to silence the alarm.

For the study, researchers recruited 151 chronic back pain patients. Those in the treatment group completed eight one-hour

sessions of PRT in which they learned the brain’s role in generating chronic pain, practiced moving while reassessing their pain as safe rather than threatening, and explored emotions that may exacerbate pain.

After treatment, two-thirds of patients in the treatment group were pain-free or nearly pain-free and, for most, relief lasted one year or more. When they were exposed to pain in a brain scanner post-treatment, brain regions associated with pain processing had also quieted.

“The magnitude and durability of pain reductions we saw are very rarely observed in chronic pain treatment trials,” said Ashar.

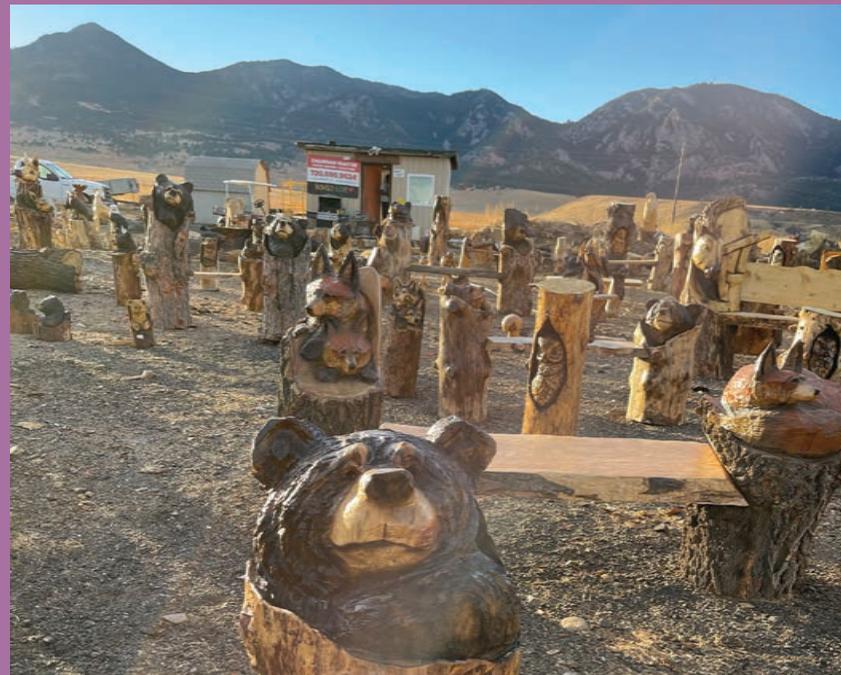
The authors stress that the treatment is not intended for “secondary pain” rooted in acute injury or disease.

Meanwhile, other similar brain-centered techniques are slowly being embraced by pain specialists, physical therapists and other clinicians.

Said co-author and psychology and neuroscience professor Sona Dimidjian: “[This study] provides a potentially powerful option for people who want to live free or nearly free of pain.” **BY LISA MARSHALL**



The End of Boulder



The Rocky Flats Bar & Grill, located south of Boulder, is also home to playful art.

I used to think Boulder ended at the streetcar graveyard.

Streetcars arrived in Boulder in 1899, followed by an interurban line from Boulder to Denver. When the streetcars and trains were abandoned, a field between Boulder and Eldorado Springs became their final resting place.

One day, I continued south, past the old Matterhorn and Hornbrook restaurants.

I thought that was the end of Boulder, but then I saw the Rocky Flats Lounge glowing in the darkness — now, I’d surely reached the end of Boulder.

I once read “The Inn Outside the World,” a science fiction story by Edmond Hamilton. It was about an inn in another dimension where humanity’s greatest minds — Socrates, Voltaire,

Einstein — mingled and socialized. When I saw the Rocky Flats Lounge, my first thought was, “Good Lord. I’ve found it.”

A lone tavern on a wind-swept plain across the street from a nuclear weapons plant. End of Boulder? Hell. It seemed like the bar at the end of the world.

It was, as one of the owners later described it, a neighborhood tavern without a neighborhood. But it had a clientele. Bomb plant workers, bikers, Green Bay Packers fans — it served ‘em all.

The Lounge burned in 2015. But, phoenix-like, it reopened in July 2019 as the Rocky Flats Bar & Grill. It still featured the Friday-night fish fries.

And then the Great Pestilence of 2020 struck.

So a few days before Christmas 2021, I drove

south on Hwy. 93 to see if it was still there.

It was.

But it was closed.

The sign on the door said “New owner, reopening soon.”

In the parking lot was a surprise: a lot full of marvelous wood carvings for sale. Eagles. Bears. Horses. Seahorses. Flamingos. Alligators. Owls. Dragonflies.

The artist, named Bongo Love, was on site.

A member of Zimbabwe’s Shona tribe, he came to Boulder in 2000.

“I use the area as a refuge. It’s not a business; it’s a refuge,” he said. “I’m free here. It’s the most creative space you can have.”

An excellent sentiment from the end of Boulder — one that, on a good day, describes Boulder from beginning to end.

BY PAUL DANISH



Ben Capeloto (AeroEngr'22) is president of internal affairs and one of the CU Boulder Student Government (CUSG) tri-executives. Last semester, he and his co-presidents helped organize the BuffStreet on The Hill events, a series of public student concerts. In his career, Capeloto hopes to work on rockets or satellites.

◀ **Model:** iPhone 12 with a Casetify case that has an astronaut on it

APPS

Most-used apps

Spotify



Instagram



Reddit



Most-used emoji



The Tri-Exec's Phone

How soon after waking up do you look at your phone? If I have a lot to do that day, I will leave it for 20 to 30 minutes, but oftentimes I will look right away.

Last person you called? My roommate. We live on University Street a block away from CU.

Duration of longest call last week? 12 minutes.

Location/situation of last selfie? The Denver Museum of Nature and Science for a conference about Colorado aerospace.

The main thing you use your phone for? Communication with friends and work colleagues, always via text and phone call.

Lock screen or background image? My dog, Lily! A 6-year-old Black Mouth Cur.

How many hours were you on your phone last week? Probably more than 30, unfortunately.

Oldest photo on your phone? The same roommate I called last. It's a photo of him from his birthday at a restaurant in 2010.

A New Green Book

Research shows how Black Twitter serves underrepresented communities

More than a half-century after the last publication of the *The Negro Motorist Green Book*, a modern-day version is flourishing in the online community of Black Twitter, finds new CU Boulder research.

“The *Green Book* was designed to help Black people navigate a racist society, and unfortunately we still exist in a racist society,” said **Shamika Klassen** (PhDInfoSci'24), a PhD candidate in the College of Media, Communication and Information. “Black Twitter provides a powerful space in which Black people can share tips and experiences about navigating it.”

Online communities like Black Twitter can serve as vital resources for underrepresented communities, as CU research found.

Published from 1936 to 1966, the *Green Book* provided guidance on how to resist discrimination everywhere from hotels to state parks. Black Twitter is not a separate platform, but rather, as Klassen described, it is an “open secret waiting in plain sight for those who know how to find it.” Users connect via hashtags related to shared Black experiences, like #BlackLivesMatter, #Driving-WhileBlack and #COVIDWhileBlack.

For a recent study, Klassen collected more than 75,000 tweets and conducted 18 in-depth interviews with Black Twitter users. She found that users rely on it much like they did the *Green*

Book — to seek out recommendations, call out racist businesses and plug into political activism. But they also complained of “outsiders” posting racist comments, police hovering to gather information, discriminatory moderation and “culture vultures” who appropriated tweets without giving credit.



As someone who studies how social justice intersects with technology, Klassen sees online communities like Black Twitter as vital resources for underrepresented communities. And, she noted, these communities are often underrepresented in the tech world. She hopes

her research will inspire companies to work harder to support and protect such spaces, with guidance from people who need and use them. **BY LISA MARSHALL**

DIGITS

Renée Crown Wellness Institute

The CU Boulder institute is dedicated to the social and emotional wellness of young people.

2019

Founded

300,000+

People watched its conversation on compassion and dignity with the Dalai Lama

15,000

Students reached by sharing Crown Wellness Tips

53

Students currently engaged in Crown research projects

4,428

Undergraduates enrolled in Crown Institute courses

32

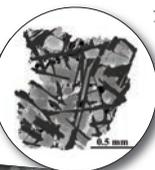
Community and school partners

CU to Review Criminal Cases for Wrongful Convictions

Last fall, CU Law School's Korey Wise Innocence Project (KWIP) partnered with the Colorado Bureau of Investigation to review 51 criminal cases that occurred in Colorado between 1976 and 1995 and used microscopic hair analysis (used prior to more accurate forensic DNA testing) as evidence. KWIP will review court transcripts for potentially inaccurate testimony and determine whether the hair microscopy evidence played a part in the conviction. Some convictions could be challenged based on any new findings.

New Moon Rocks

CU planetary scientist Carolyn Crow was one of several scientists from around the globe to examine two tiny moon rock samples



brought to Earth by a Chinese ascent vehicle in December 2020. The moon rocks are the first to be collected in 45 years and may be able to help scientists fill in a gap in the moon's geologic record and contribute to the geologic history of other planets.

No Advantage for Blade Runners

Eagerly anticipated CU research was published in *Royal Society Open Science* containing the most comprehensive data set ever collected from runners with bilateral leg amputations. Senior study author and CU Boulder integrative physiology associate professor Alena Grabowski told *CU Boulder Today*: "The use of running prostheses provides no competitive advantage over 400 meters compared to biological legs." The study's findings can have major implications for "blade runners" — sprinters who use running prostheses — like Blake Leeper, the world's fastest 400-meter sprinter, who was ruled ineligible for the Tokyo Olympics because of an assumed advantage.

Heard Around Campus

"LIFE SHOULDN'T BE SEEN AS BETTER BECAUSE YOU PARTNER UP; IT SHOULD JUST BE SEEN AS DIFFERENT."

— Peter McGraw, CU Boulder professor of marketing and psychology, on research that people are now less dependent on relationships. He's among the first to research single people specifically.

ARTIFACT Rodeck's Typewriter

Model No. 3

This typewriter model from the Chicago-based Oliver Typewriter Company was manufactured from 1900 to 1907.

Cost
The typewriter cost \$95 in 1903. Today, it would cost around \$2,775.



Design, Unchanged

Oliver typewriters looked mostly the same throughout the company's history from 1895 to 1928.

The Oliver Brand

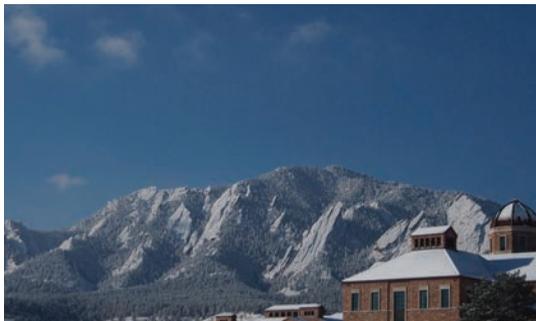
Oliver typewriters were known for their innovative "down-strike" mechanism, which helped typists see what they were writing as they went.

Growing a Museum

Beginning in the late 1890s, a small, poorly maintained natural history collection lived on the fourth floor of CU Boulder's Hale Science Building. In November 1937, natural history professor **Hugo G. Rodeck** (BioChem'28; MA'29) helped open a larger museum in what is today the Henderson Building, located off Broadway and west of the University Memorial Center. Rodeck served as director of the museum — growing its campus presence and prestige — until his retirement in 1971.

Rodeck used this typewriter, a 1903 Oliver Model No. 3, on campus. Perhaps it served as a tool to help him develop and teach the university's first museology graduate classes, or aided him as he became a consultant for museums around the world.

One thing is certain: Rodeck's words and influence helped shape the trajectory of the CU Museum of Natural History to become what it is today — home to more than 4 million objects and the largest natural history collection in the Rocky Mountains.



The Allure of CU Boulder

If you search CU Boulder's social tag, #cuboulder, on Twitter, you're guaranteed beautiful photos of campus from CU scientist Tomoko Borsa. Borsa is the facility manager of the university's COSINC facility, which houses sensitive and high-performance instruments, ranging from scanning electron microscopes to atomic force microscopes.

Borsa, who is from Tokyo, is drawn to CU Boulder's open and dynamic atmosphere, she said. Her favorite spot on campus is the giant field by the Leeds School of Business, on the east end of main campus.

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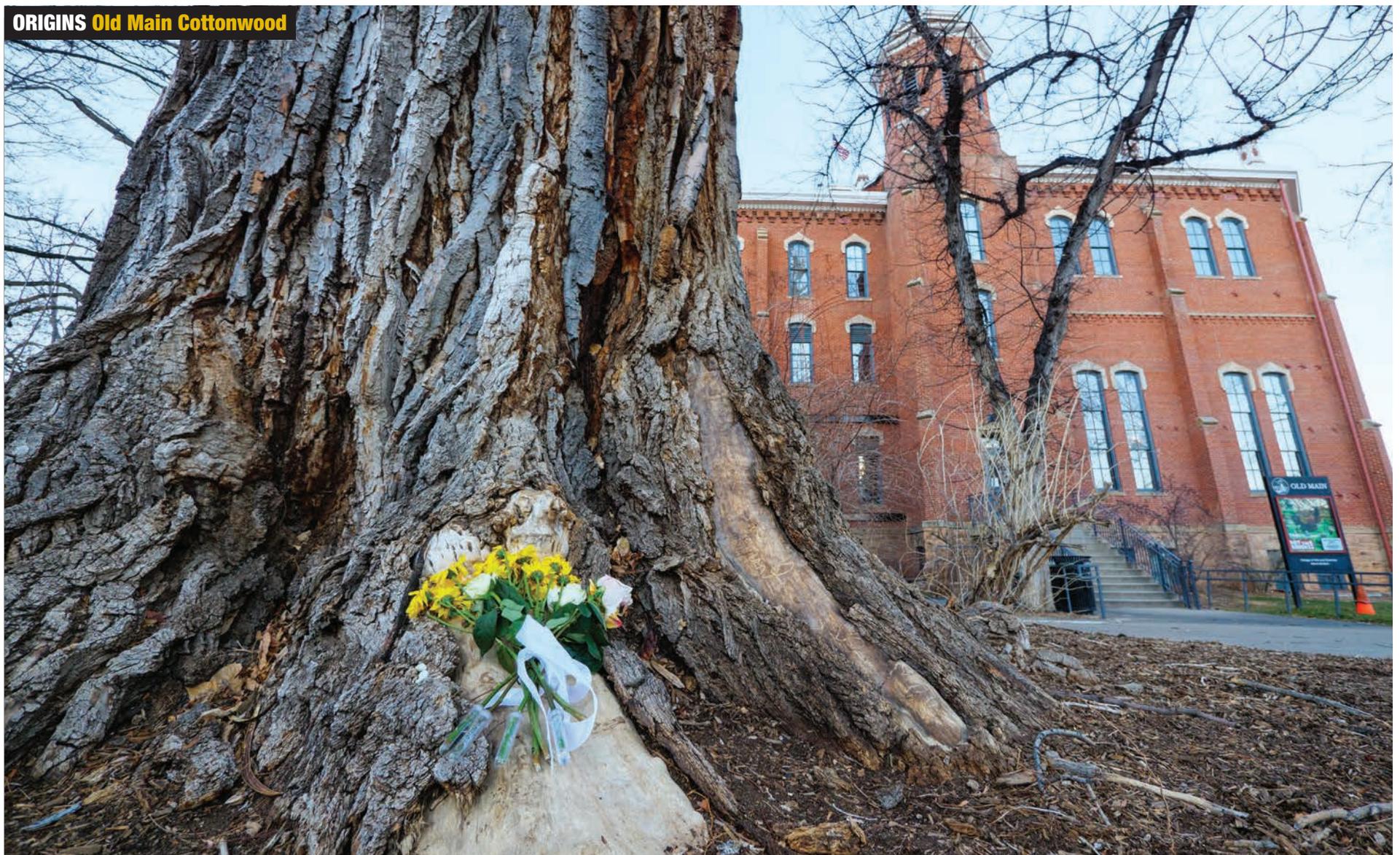
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Turning Over a New Leaf

If the towering cottonwood that stood in front of Old Main could have talked, it would have had a lot to say about the last 140 years.

It stood guard on commencement day. It was blanketed with heavy snow, endured windstorms and floods and basked in Boulder’s abundant sunshine. It witnessed romances, heated academic debates and gleeful Norlin Quad shenanigans.

In recent years, the iconic tree began to show its age. In January, crews gently dismantled its limbs and branches using a crane to remove the tree, which was dying off in large sections. As far as CU’s forestry experts can tell, it wasn’t affected by disease or injury — it simply got old.

“The metabolic functions of the tree start to become out of balance and the tree can no longer sustain parts of the canopy,” said campus forestry supervisor Vince Aquino.

Though the tree’s removal marks the end of a CU era, it also signifies new beginnings. In 2014, forestry staff took cuttings from the cottonwood and passed them on to colleagues in the EBIO teaching and research greenhouse, who rooted them in containers. With a little nurturing, the cuttings grew into small trees — exact clones of

the Old Main cottonwood that Aquino and his team will plant near the original’s location.

“Everything in life is succession, something replacing something else,” said Tom Lemieux, the assistant greenhouse manager who helped propagate the tree.

The university spent \$35 in 1879 to buy 42 plains cottonwoods, hardy trees that live up to 80 years. Few could have predicted the longevity and enormity of the Old Main cottonwood, which grew to 110 feet tall with a 19-foot base circumference.

The Old Main cottonwood was the oldest, tallest tree on campus. On top of stellar genetics, the tree likely benefited from the campus’s historic flood irrigation system, and later a modern sprinkler system and forestry experts like Aquino and his team who cared for it.

And the tree had regular visitors — many attending Aquino’s tree walks.

“Trees really elicit an emotional response in people,” said Aquino. “It can’t be overstated how much trees change what people feel when they’re in a landscape. It happens on a level that people aren’t even aware of.” **BY SARAH KUTA**

After 143 years on campus, the Old Main cottonwood tree, CU’s oldest tree, has been removed. Clones of the tree will be planted nearby.

MARSHALL FIRE DEVASTATES CU BOULDER COMMUNITY

Drought, dry grass and gusting winds lead to wildfire.

BY SARAH KUTA

Matt Sparkman (Mgmt'16) was enjoying a relaxing day off from work at his home in Marshall when he stepped outside and smelled smoke on Dec. 30.

Sparkman, who works as senior program manager for principal gifts in the CU Boulder advancement office, ran into the house to grab some warmer clothes and a scarf to cover his face. By the time he got back outside, he could see black smoke billowing over the ridgeline west of his house.

"I decided that, with the wind as strong as it was, I was just going to leave," he said. "I didn't take anything, I was just like, 'I have to get out of here.'"

Sparkman safely evacuated to his parents' house in South Boulder just in time. As the fire barreled east toward Superior, and then Louisville, it reduced the cozy rental cottage where he'd spent the last four years to a pile of charred rubble.

So far, he's maintaining a positive outlook about losing all of his belongings

— he knows he can replace them easily enough. But Sparkman is still mourning the damage caused to the landscape and the fact that he'll have to move out of Marshall, the small, unincorporated community just south of Boulder and east of Hwy. 93.

"More so than missing things, it's the ability to just go out my door and go for a run, go link up to Marshall Mesa so quickly, the neighborhood community — those are the things I miss most about Marshall," he said. "It's just sad to see the scorched landscape and the trees. It was such a unique place because you had creeks, you had huge trees, you had open space. I'd see all sorts of birds and wildlife, and it'll take some time for the land to look like it used to."

Sparkman is just one of the many CU Boulder community members affected by the Marshall Fire, which forced an estimated 899 students and 771 faculty and staff members to evacuate. It ultimately





damaged or destroyed approximately 155 of their homes.

All told, the blaze destroyed 1,084 homes and damaged 149 others in Louisville, Superior and unincorporated Boulder County, causing more than \$500 million in damage to residences, according to Boulder County totals. As of press time, one death was confirmed from the fire.

For many people, the disaster was a wakeup call: Front Range communities and subdivisions are susceptible to wildfires, just like the Colorado mountain homes surrounded by trees. According to Jennifer Balch, a leading fire scientist and CU Boulder associate professor of geography, it was only a matter of time before a fast-moving urban wildfire like this one swept through a heavily populated area.

Research led by Balch and colleagues in Earth Lab, part of the Cooperative Institute for Research in Environmental Sciences (CIRES) at CU Boulder, found that 1 million U.S. homes were within wildfire perimeters over the last two decades, and 59 million others were within a kilometer. They also found that humans were responsible for touching off 97% of wildfires that threatened homes over the same period.

Taken together, the findings paint an already harrowing picture about the potential dangers wildfires pose to residential areas. Add to that rising temperatures, drought, dry grasses and strong winds brought on by big temperature swings — factors researchers say are linked to climate change — and the West could experience more destructive wildfires like the Marshall Fire in the very near future, Balch said.

“I can tell you for sure that we’re going to have another event like this at some point — I don’t know where and I don’t know when it’s going to happen, but our communities are at risk,” said Balch, whose team is already making plans to study the Marshall Fire. “Our ecosystems are adapted to fire, we’ve

just put a lot [of structures] in the way and now we have to reckon with that. To me, this is climate change in the here and now in Colorado.”

While many people were fleeing the fire’s path, **Ryan Chreist** (Kines’96; MPubAd’09), who lives just north of Louisville, headed straight into the blaze. On top of his job as assistant vice chancellor and executive director of the CU Boulder Alumni Association, Chreist serves as a volunteer firefighter with the Louisville Fire Department, a post he’s held since 2002.

For 14 hours, Chreist helped battle the fire on the ground in Louisville.

In addition to using hoses to fight the flames engulfing structures, trees, bushes and grass to try to slow the spread to other houses, he used wildland tools to cut down wooden fences and remove grass and brush to keep them from catching fire. When he finally got home a little after 3 a.m., he was exhausted and covered in ash and soot; the fire had singed his hair and the constant barrage of smoke and debris made it painful to

It was only a matter of time before a fast-moving urban wildfire like this one swept through a heavily populated area.

keep his eyes open.

Though it took Chreist a few days to process the “apocalyptic” scenes he’d witnessed while fighting the fire, he said, eventually, the sense of loss began to hit him in waves.

But as he began to reflect on all that Boulder County has been through in recent years — the 2013 floods, the pandemic, the King Soopers shooting, other wildfires — he also found himself thinking about something more hopeful: resilience. In all of those instances, the community immediately stepped up and found ways to help, both big and small.

“We tend to think of ourselves as being separated by the name of our towns, but really, we’re all dealing with the same benefits and challenges of living in this place,” he said. “Things like this bring the community together in the long run. We’re all in this together.”



7 Ways Work Will Change Forever

FROM ZOOM TOWNS TO ROBOT COWORKERS AND THE FATE OF OFFICE BUILDINGS, CU BOULDER STUDENTS, FACULTY, STAFF AND ALUMNI WEIGH IN ON THE FUTURE OF WORK.

1. THE FUTURE OF OFFICE SPACE BY KELSEY SIMPKINS

More than two years into the pandemic, many office buildings in the U.S. remain half empty as companies' employees have settled more permanently into remote work or hybrid schedules.

What does that mean for the future of office space?

"Everything about offices is now changing to try to reflect the reality of how we're going to keep working long term," said Paul Chinowsky, director of the Program in Environmental Design and civil, environmental and architectural engineering professor.

We still don't know exactly what the future holds, even if working in the office five days a week becomes a thing of the past. According to Chinowsky, that means flexibility is the name of the game.

Building leases for offices can last five to 10 years or longer, leaving many businesses stuck with too much space or the wrong kind of space for their needs. Renovations within older buildings are expensive and could fail to serve future needs if the pendulum of where and how we work swings yet again.

This means a movement toward flexible space is quickly gaining momentum — for example, with larger meeting spaces where people can gather when they are in the office, private offices with moveable walls and shared office space with unassigned desks, a system known as "hoteling."

Workforce employees can expect new offices to be built with flexibility in mind. Another pandemic related outcome: improved ventilation and filtration to reduce the risk of spreading illnesses such as COVID-19, the seasonal flu and the common cold.

"We're going to see this great experimentation of what works and what doesn't work. And probably the only thing we know is we're not going to see offices with permanent walls that cost a ton to take down and move," said Chinowsky. "Everything is going to be flexible."

2. COMPANY CULTURE LOOKS DIFFERENT IN THE VIRTUAL WORLD BY SARAH KUTA

As more organizations move toward remote and hybrid work arrangements, company leaders are shifting the way they think about workplace climate and culture. Researchers still don't know all the ways that working virtually affects team culture — they're studying those types of questions right now — but they do know it will be different.

"Oftentimes, people will think automatically, 'Oh, having a virtual team is worse, especially when I think about developing a team climate or a team culture,' when in all actuality, it's not worse, it just looks different — it's different than what we're used to," said Christina Lacerenza, a CU Boulder assistant professor of organizational behavior in the Leeds School of Business.

For example: Though working remotely makes it harder to build interpersonal trust among team members, it can actually make it easier to build task-oriented trust, which develops from a coworker's ability to meet deadlines and complete deliverables as expected, according to Lacerenza.

So even though remote teams aren't meeting for weekly happy hours or doing team-building exercises at the annual company retreat, they're still developing trust — and, in many cases, the task-oriented trust they're building over Slack, email and

Zoom can help them be more productive. Research has found that task-based trust, in certain instances, more strongly relates to a team's performance than interpersonal-based trust, Lacerenza said.

"We have this bias toward thinking about effective teaming as effective socializing, but that's not all we need," Lacerenza said.

Managers, too, need to adapt to help foster a positive workplace culture in a virtual landscape. For starters, they need to broaden their mindset about what makes an "ideal worker," Lacerenza said, and accept that there's no one-size-fits-all approach to a remote or hybrid work arrangement.

And instead of a top-down, authoritarian approach, which might work just fine in the office, leaders should consider adopting a more empowering style, which means delegating authority and decision-making to employees.

"In a virtual or hybrid setting you aren't able to micromanage — you can't physically see your employees doing their work, so it's harder for you as a leader to control how they get their work done. But that's not a bad thing," Lacerenza said. "An empowering leadership style is linked to increased commitment from employees, higher levels of creativity, higher performance and increased job satisfaction, so there are a lot of benefits."

3. ZOOM FATIGUE IS REAL: HOW SPEECH AND BODY LANGUAGE CHANGE OVER VIDEO BY SARAH KUTA

We've all done it: cringed after waving goodbye to colleagues at the end of a Zoom meeting, something we typically don't do while walking out of in-person meetings.

This is one of the more obvious ways that Zoom and other remote work tools have affected our body language and speech, but there are other, subtler shifts, too. Some of the changes may be helpful and even productive for collaborating with colleagues, but they can also be downright exhausting. Hello, Zoom fatigue.

When we meet with someone over video, for instance, it's rare for both people to look at the other person's face on the screen simultaneously, which researchers consider to be eye contact, or mutual gaze, in a virtual context.

"It's this subtle thing that breaks down the quality of very basic social and visual communication," said Sidney D'Mello, a

CU Boulder computer science professor in the Institute of Cognitive Science.

"When you interact with people on a computer, the experience is drastically diminished. In the context of Zoom, we need to be hypervigilant that everything we take for granted about face-to-face communication doesn't apply anymore, and we really have to go out of our way to facilitate these kinds of interactions."

Research has found that we also tend to use fewer gestures when meeting virtually (especially when everyone is looking at a document or presentation on their screen), so we have to speak up more to describe what we're thinking and feeling. This can be both a positive and a negative.

"You have to work a lot harder and be much more conscious about what you're communicating. Of course, the irony is that this leads to Zoom exhaustion," said D'Mello.

There are steps we can take to improve our verbal and nonverbal communication over Zoom — like leaving the camera on, not checking email or doing other tasks during the meeting and looking directly into the camera while speaking.

But even with these tweaks, Zoom is no substitute for the ways that language and body language help us form bonds with coworkers when we interact in person, D'Mello said. Meet in person when you can, and you'll likely feel closer to your coworkers.

"Zoom is a very small, very recent aspect of our lives, and even though it's taken over so much of what we do, it doesn't substitute for the thousands of years of face-to-face interaction, which is important for rapport, forming bonds and interpersonal synergies from people interacting together," said D'Mello.

4. RULES OF ENGAGEMENT: EMPLOYEES AND EMPLOYERS NAVIGATE NEW NORMS BY HELEN OLSSON

The pandemic has indelibly changed the workplace. In many cases, it has significantly shifted the balance of power between employees and employers.

"The forces that cause people to go to work — and to accept work on the terms offered — have been eroded," said Ahmed White, author of *The Last Great Strike* and a law professor at CU Boulder. "It began before the pandemic, but I think the pandemic accelerated it. It has opened the





door to more labor activism. People are less intimidated, more willing to take a stand for little or big things in the workplace. There's a mindset of "take this job and shove it."

The dynamics of management have also evolved. White points out that in a traditional workplace, supervisors watch over you. When you're working from home, they simply aren't there.

"That has impacted managerial authority and unsettled things," he said. "When you go a year and a half with different and often-changing rules, you can get into a contest over what the rules are going to be."

Another factor, White said, is inflation. Workers who don't get raises are losing ground.

"When workers start perceiving that essentially their wages are being cut, it underpins a willingness to agitate for a better position," White said.

White puts the situation in a larger context.

"In the last half century, the labor movement has declined while the landscape of individual employment rights like wage and hours has expanded," he said. "But there's been a dramatic decline in union membership."

White doesn't see today's workplace activism gaining the kind of momentum seen in the 1930s and '40s, when the union movement surged dramatically.

"What will limit the scope of organizing is how fractured and dispersed the labor force is in this country," White said. "Eighty years ago, workers were concentrated in one place. With the work geography of big operators like Google or Amazon, workers no longer dominate small-town workforces. That undermines solidarity among workers."

While White acknowledges there's been an uptick in workplace activism and that workers are more inclined to speak out, he's cautious about exaggerating the moment: "Is this going to go anywhere? Will it have legs? It's hard to say."

5. WHEN A ROBOT IS YOUR COWORKER DANIEL STRAIN

In the not-so-distant future, you may find yourself rubbing elbows with an unusual group of coworkers: robots.

Alessandro Roncone, assistant professor in the Department of Computer Science at CU Boulder, explained that robots have been popping up in workplaces across the country. They scan

library aisles for misshelved books and deliver drugs and gauze from floor to floor in hospitals. A company called Barsys even designed a "robotic bartender" that can, according to its specs, mix up thousands of different cocktails with the press of a button.

Despite what many envisioned in the 1980s, these intelligent machines probably won't replace human workers across the board, Roncone said.

"Instead, the robotics industry is waking up to the idea that rather than have robots replace human labor, it's much better to augment human labor," he said.

In other words: robotic colleagues, or "cobots," not nemeses.

Still, researchers have a long way to go. Humans who are mostly good at not bumping into each other — picture cooks toiling side-by-side in a crowded kitchen — use bodily awareness to navigate space. Roncone and his colleagues hope to design robots with the same ability. In a recent study, the team designed a robot arm with sensors to detect when humans are getting too close, signalling it to move safely out of the way.

Morteza Lahijanani, assistant professor of aerospace engineering, added that the biggest roadblock to bringing robots to work isn't the machines themselves: It's us. Humans, he explained, are inherently chaotic beings. When a company called Waymo, for example, tested a fleet of self-driving vans in Arizona, some residents threw rocks at the vehicles and harassed them in other ways, according to news reports.

The challenge facing engineers, then, is to design robots that can predict human behavior in advance — then draw on their programming to keep themselves and humans safe.

"Autonomous systems base their decisions on an understanding of the world," Lahijanani said. "But we don't understand humans."

6. PREPARING FOR YOUR LAST JOB — NOW BY SHANNON MULLANE

When professor Tim Kuhn considers the future of work, he offers a piece of advice: Prepare for your last job rather than the first.

For decades, workplaces have been adapting to new technologies, political and social pressures and market forces. But the COVID-19 pandemic shoved this transformation into hyperspeed, calling into question basic assumptions about how and where work can take place.

“Who knows what a post-pandemic work world will look like? I don’t think we’re going back to a place where work is assumed to be, first and foremost, in person,” said Kuhn, department chair of communication in the College of Media, Communication and Information.

The key to preparing for that last job — one that might not even exist yet — is to focus on lifelong learning, he said. That means, in part, honing transferable skills, like team leadership, group collaboration, empathy, listening and providing feedback.

“In the communication department, we’ve designed our curriculum around the idea that students practice a CRAFT,” Kuhn said. “We prepare students to be creative, relational, analytic, flexible and transformative in their work and their workplaces.”

These characteristics turn out to be key both for making work meaningful and improving our own adaptability, he said.

On average, an individual will change jobs 12 times and have three or more careers. Employees of all ages are reevaluating what they want out of their jobs and increasingly seeking work that aligns with their personal values, he said.

“You don’t want to pigeonhole yourself,” Kuhn said. “You want to know you can take on your last job just as well as you can your first job.”

Whether working as an assistant or as a news anchor for NBC News, **Savannah Sellers** (Jour’13) always asks herself the same question when considering a new job opportunity: “Will this job teach me something I don’t already know?”

The strategy worked well: In 2017 she became NBC’s youngest anchor and host of Stay Tuned, a Snapchat news show — a job that didn’t exist anywhere in the industry before the show launched.

Sellers said young people have to be adaptable as the news industry goes through a wave of rapid change. In fact, this period of change is full of opportunity: Millennials and Generation Z, those born between 1981 and 2012, are in a prime position to help organizations reach new frontiers and emerging platforms, she said.

“Don’t be scared of the changing industry,” Sellers said. “In this moment right now, [these generations] are the ones who know the future platforms. ... That can be super valuable to a company that is just trying to figure it out, like we all are.”

7. ZOOM TOWNS BY ALEX MCMILLAN

“They treat it like their personal office. They order black coffee, don’t tip and sit there for the entire time we’re open.”

Livia Follet (Engl’23) of Salida, Colorado, has worked at her local coffee shop, Cafe Dawn, since she was 15. Outside of peak tourist season, their customers used to be mostly locals. However, around the spring of 2020, she noticed a slew of new faces — who she described as “tech bros” — frequenting the cafe.

“We finally just stopped offering the internet,” she said.

Follet’s situation is a part of a bigger phenomenon occurring in mountain towns across the country. The rise of remote work has resulted in some workers — often those who own second homes — moving to areas previously considered resort destinations, creating so-called Zoom towns.

“Mountain towns are doing well, especially their real estate markets,” said Stephen Billings, a professor of real estate at CU Boulder.

However, this boom in real estate may come at a cost to locals. As prices and the cost of living increase, affordable housing becomes a concern, and towns struggle to find service workers and provide amenities, Billings said.

Follet has witnessed it firsthand: “You try to walk into businesses and they’ll be closed that day because there is no one to work.”

To Billings, this is illustrative of the concept of spatial inequality — the increasing disparity between expensive places and places that are left behind.

“The recent trend in Zoom towns marks an acceleration of this story,” he said. “Wealthy workers leave cities like Denver, creating less economic diversity and pushing people out of mountain towns, which have a fixed amount of housing.”

Whether or not this trend will continue, Billings said, is uncertain: “It’s unclear if people can work remotely long term.”

As for Follet, she hopes it slows down. “It’s kind of sad to see people come in and take ownership over a place where you were raised, that you have such a connection to, and change it without any knowledge of how to take care of it,” she said. “They see it as somewhere fun to move to, a commodity maybe, not their home. It makes it harder for people who do want to work and raise their kids here to actually live here.”



A Walk Through the Renaissance

Plants were important to Shakespeare. From love potions in *A Midsummer Night's Dream* to Ophelia's symbolic bouquet of rosemary, pansies, fennel, rue and daisies in *Hamlet*, plants appear in the storylines of many of the Bard's greatest works.

At CU Boulder, the Colorado Shakespeare Gardens serve as a tranquil, historic lesson on plants prevalent in Shakespeare's time. Founded by Marlene Cowdery in 1991 and now a donation-based program within the Colorado Shakespeare Festival, the gardens are maintained by nearly 20 members — including master gardeners, teachers and CU alumni. On Saturdays from spring to fall, members can be seen gardening in the courtyard between the Hellems Arts and Sciences Building and the Lucile Berkeley Buchanan Building.

6

Types of trees in the gardens

44

Approximate number of plant species in the gardens

JUNE AND SEPTEMBER

Best months to visit the gardens

18

Members of the gardens, with 5-6 regular maintenance volunteers

\$2K

Annual cost to maintain the gardens

450

hours volunteered approximately each year to maintain the gardens

Wild Rose

Chive

Pomegranate

Apple Blossom

Calendula

Orange

Lavender

Lily

Columbine

Mallow

Flax

Red Rose

Violets

Daffodil

Poppy

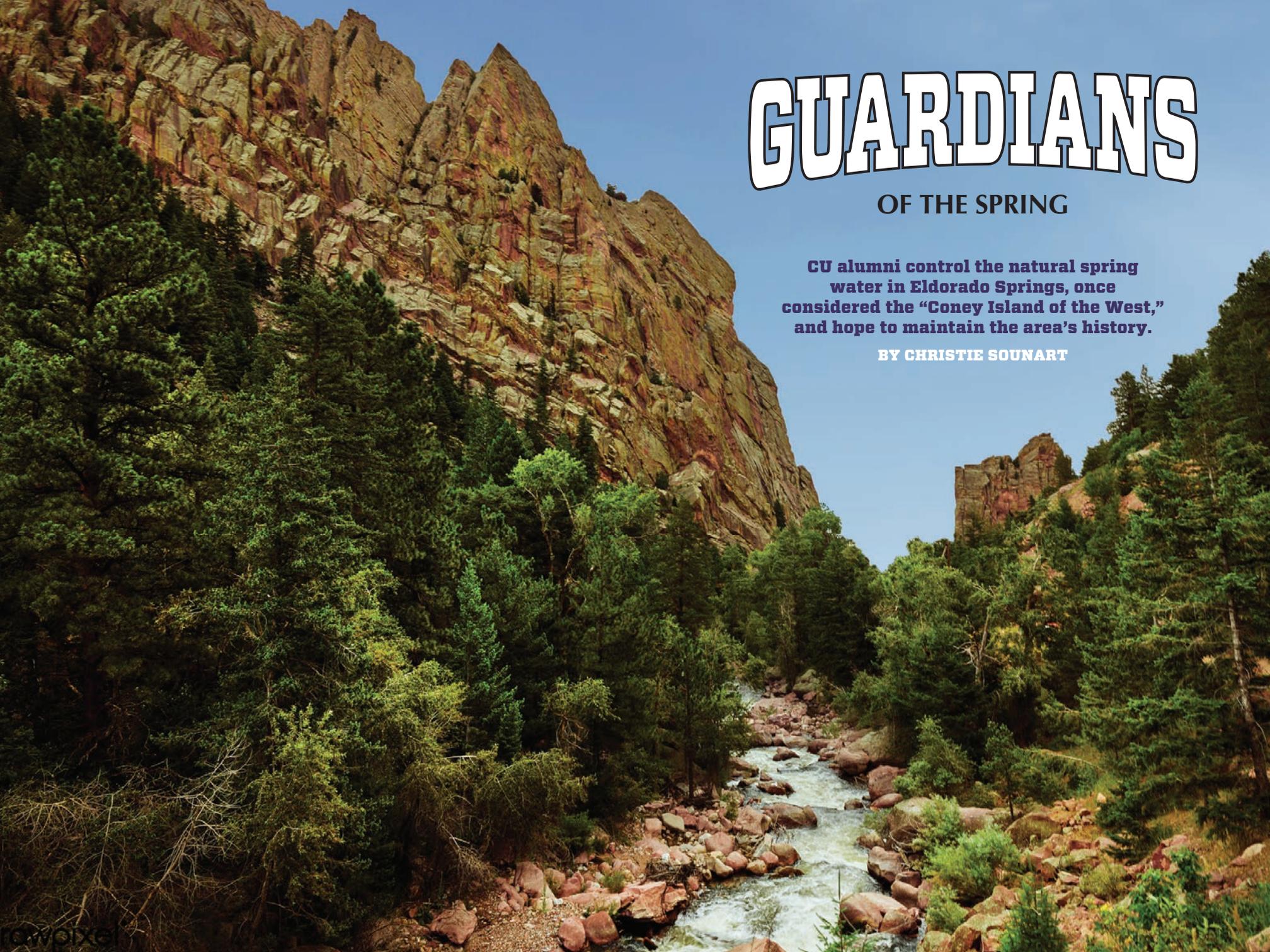
*New members and volunteers are welcome. Anyone interested can email carolmellinger@gmail.com.

GUARDIANS

OF THE SPRING

CU alumni control the natural spring water in Eldorado Springs, once considered the “Coney Island of the West,” and hope to maintain the area’s history.

BY CHRISTIE SOUNART



Less than eight miles south of CU Boulder, off of Hwy. 93 and up the scenic Eldorado Canyon, one of Colorado’s busiest state parks welcomes visitors of all kinds. Steep canyon walls lure rock climbers. Fish are plentiful. Scenic hiking trails are accessible year round.

But perhaps the area’s best highlight is one often unnoticed — an aquifer thousands of feet below the Flatirons, releasing naturally filtered water through an artesian spring.

For nearly 40 years, CU alumni have helped maintain the purity of the spring’s water and have sold millions of gallons of water to local and national customers through the bottled water company Eldorado Artesian Springs.

“We regard our company as guardians of the spring,” said **Doug Larson** (Fin’78), who founded the business with friends **Jeremy Martin** (IntlBus’77) — whom he’s known since middle school — and **Kevin Sipple** (Psych’77), whom he met in high school. “The water is truly special.”

The Place to Go

In the early 1900s, this spring water fueled entertainment. A resort opened in the canyon on July 4, 1905, with a gigantic spring-fed swimming pool. The area — accessible only by train or horseback — gained popularity, and was coined the “Coney Island of the West.” Word grew about the resort’s carnival games, dancing, roller skating and swimming.

Starting in 1906, renowned hot air balloonist Ivy Baldwin walked across Eldorado Canyon on a tightrope suspended

about 600 feet above the ground — and became a visitor highlight, completing the feat 86 times over 40 years. Ten years later the future President and First Lady, Dwight and Mamie Eisenhower, honeymooned in one of the on-site cabins. Other politicians and celebrities, including world heavyweight champion Jack Dempsey, frequented the resort.

“It was the place to go,” said Jeremy Martin, who has a 1920s photo depicting gleeful swimmers at the spring-fed pool hanging in his Boulder home.

In the years following, resort ownership traded hands, priorities shifted and activities dwindled. When the Great Depression hit, attendance plummeted. In the late 1930s, a fire burned the hotel, and a flood caused part of the ballroom to collapse.

In the 1940s, Jack Fowler, whose family was among the original owners, started packaging and distributing water from the canyon spring. A small following ensued, but the resort remained a shadow of its former glory.

In 1978, the State of Colorado purchased more than 400 acres from the resort to establish Eldorado Canyon State Park. Day-trippers began frequenting the area.

Eldorado Springs hummed with life again. And the CU alumni were about to offer more.

Water as a Business

In the early 1980s, Larson, Martin and Sipple — all in their late twenties — hoped to start a company in health and wellness. Martin had signed up for water delivery with Deep Rock, one of Eldorado Artesian Springs' future competitors,

and it spurred the trio to pursue selling bottled water. While searching for local water sources, they discovered Eldorado.

"I learned to swim in the resort pool when I was five years old," said Larson. "Upon investigating, we found that the quality of the spring water was one of the best-known worldwide, so we decided to take a deeper dive."

The 46-acre property was in poor condition, but a year later, a lease became available. Still seeing potential, the trio moved to purchase the resort property, which came with dilapidated cabins and a leaky, unusable pool — remnants of a thriving past. They completed the purchase on Oct. 18, 1983.

"We had our signing-day celebration in the ballroom, and melting snow rained down on us as we toasted our acquisition," said Larson.

They also gained about 300 Boulder customers who paid for bottled water from the spring.

They focused on growing bottled water sales, but in order to market the water, they needed the profits from the summer season at the famous swimming pool, which they'd repaired.



in 1990, successfully negotiated a bank note crisis in order to keep the company in operation.

In 2010, in line with its commitment to sustainability, the company became the first bottled water company in the U.S. to use bottles made from 100% post-consumer recycled plastic (rPET).

A Family Company

Today, the spring water is collected five to six times a day and sent to Louisville for bottling and distribution. The remaining water flows into South Boulder Creek.

The water is sold to hundreds of thousands of customers annually in individual homes, businesses and in health food and grocery stores — such as Kroger, Whole Foods and Safeway — in Colorado and neighboring states. Many companies, including Stranahan's Colorado Whiskey, use it in their products. Their five-gallon bottle is the bestseller, said Martin.

In 2021, the water was again named best-tasting in the U.S. at the West Virginia tasting festival.

Today, the company is co-owned by Larson, Martin, Janssen-Krejsa and Shoenfeld. (Sipple retired in 2014.) They're witnessing an explosion of visitation to Eldorado Canyon — more than half a million people a year. To capitalize on the volume of visitors in the area, Eldorado Artesian Springs will offer more of what once was: The pool is undergoing a complete renovation, and plans to rehaul the ballroom are underway.

For Larson, distributing Eldorado Springs water is special. But it's the people who keep him coming to work. In addition to working with his lifelong friends, he employs three of his four children.

"I met my wife, **Kathy Larson** (Bio'85), at the pool," said Larson, who lives in Eldorado Springs next door to Sipple. "I am most proud of the manner in which we have built the company. One that values people and strives to improve the well-being of our employees and the community we serve."

"The bottled water market was fairly nonexistent in 1983," said Larson. "One could buy gallon jugs of distilled water at the grocery store. The demand for residential delivery and store purchases grew along with the increasing consumer consciousness for better health and wellness that became mainstream."

The team distributed thousands of free water samples to the community, relying on the clean spring taste to gain enthusiastic customers.

Sales began to flourish. In 1996, the water was named best-tasting in the U.S. — and third-best in the world — at the annual Berkeley Springs International Water Tasting in West Virginia.

They moved their bottling facility from Eldorado Canyon to Louisville, Colorado, in 2001. They also adopted a subscription water service, implemented by **Kate Lohofener Janssen-Krejsa** (Thtr'94), the company's business development officer, who has worked for the company since 1995.

There were some hurdles, especially during the Great Recession. But CFO Cathy Shoenfeld, a CU Denver graduate who joined Eldorado Artesian Springs



When Casey Fiesler posted her first TikTok in November 2020, she wasn't expecting much.

She had shared her expertise online through op-eds and YouTube videos. But, after a YouTube comment mentioned TikTok might widen her digital audience, Fiesler tried it out, albeit skeptically.

"I didn't think of TikTok as an educational platform," said Fiesler. "And then it surprised me."

Within months, several of her videos had hundreds of thousands of views, and one about the *Wall Street Journal's* investigation into TikTok's algorithm had been watched 1.3 million times.

It seemed TikTok users craved insight into the ethics of their favorite platforms, and Fiesler was poised to give it to them.

An assistant professor, National Science Foundation CAREER Grant recipient and researcher in technology ethics, internet

"When it comes to suppression of certain communities on TikTok, it could be intentional, but it could also be based on the biases of the people who are scrolling past some content and watching other content," said Fiesler, explaining the platform may be reflecting users' existing discriminatory tendencies, amplifying a problem that was already there. "However, there are strategies that TikTok could be using to mitigate the resulting inequities."

Whatever the scandal, from racist soap dispensers to unfair content moderation, Fiesler's viewers wanted to learn more.

So, Fiesler adapted her "Information Ethics & Policy" class for TikTok, and everyone's invited.

The public digital class is complete with micro-lectures, a syllabus and office hours held on TikTok LIVE. It sparks comment-section debate over classic ethical problems and discusses topics like

TikTok Ethics

IS SOCIAL TECH SUCH A THREAT?

MEDIA PROFESSOR AWARDED \$500,000 NSF CAREER GRANT TO STUDY ETHICAL IMPLICATIONS OF TECHNOLOGY DESIGN. BY GRACE DEARNLEY

law and policy, and online communities, Fiesler makes a living scrutinizing technology — especially social networks.

Her philosophy errs not on the side of demonizing big tech, but instead empathizes with the unique challenges companies face in taming digital platforms. According to Fiesler, the websites aren't inherently unethical — social platforms present ethical conundrums.

Social platforms have been scrutinized for creating and perpetuating racial biases. While creators and programmers tend to be blamed for the flaws in social platforms, Fiesler says the issue is more complex.

"Obviously there are biased people everywhere, including in technology design. But ... for AI, these systems are typically based on data that is coming from somewhere — historical data or user engagement and user behaviors, for example."

In other words, human biases become machine biases.

For example, TikTok has caught controversy over claims its "For You Page" recommendations favor white creators, but Fiesler isn't convinced TikTok is the only party to blame.

deontology and self-driving cars.

What drives Fiesler's passion project? To better the digital realm through education and empowering critique. She believes users will create positive change if they know how to hold social platforms accountable for their ethical shortcomings and to act responsibly on the apps.

As Fiesler's TikTok followers grow to nearly 100,000 and counting, more users understand the implications — both positive and negative — of the technology they use to shape and share their lives.

"Social media is really good for people, and social media is really bad for people," said Fiesler. "Those two things can be true at the same time."

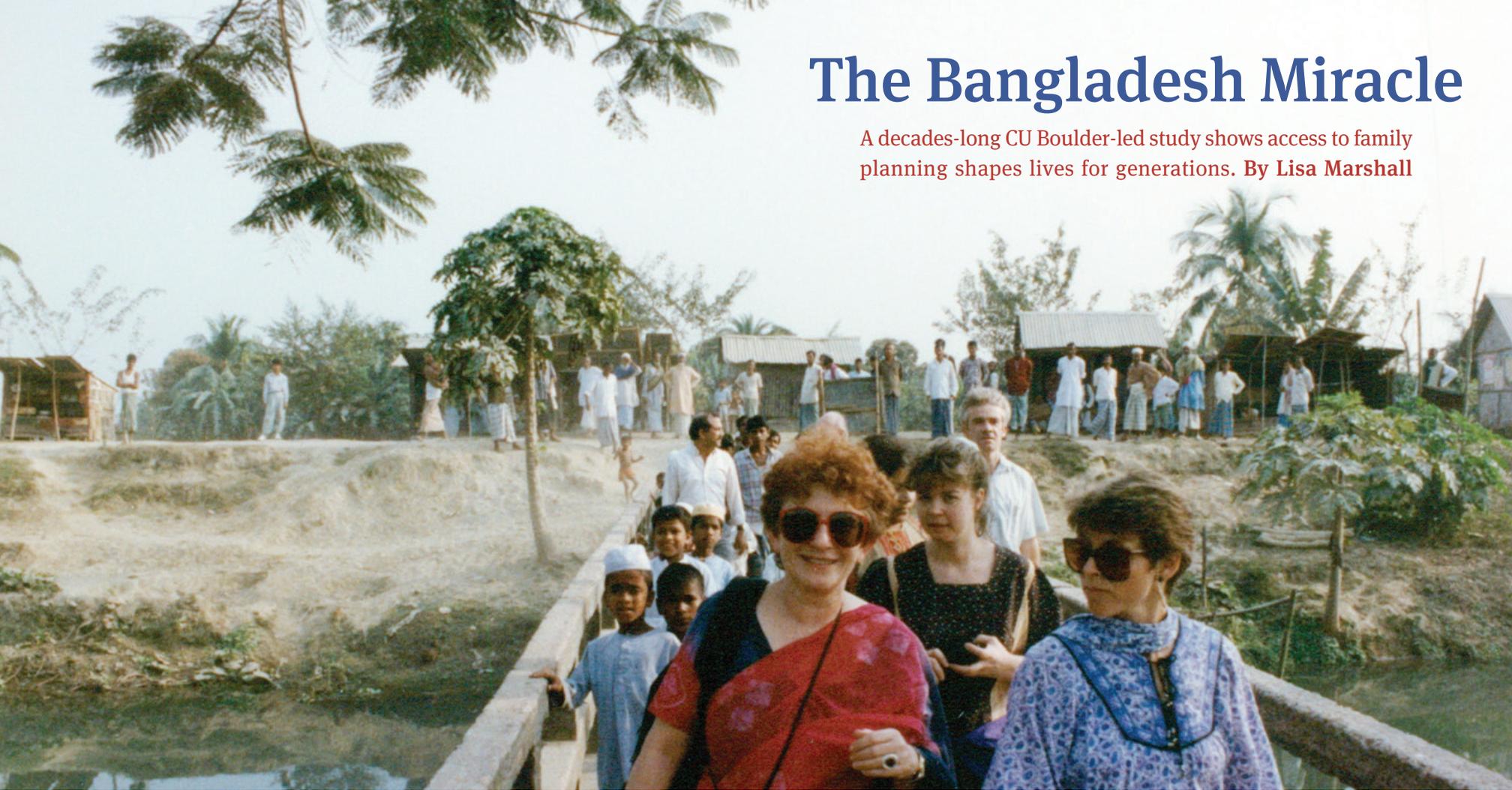
One can enjoy the internet and hold it accountable: Fiesler's work empowers people to do so.

"I love social media, and I think it has done amazing things for the world. That is why I critique it," said Fiesler. "We need to critique the things we love because we want them to be better."

Follow Casey Fiesler on TikTok and Instagram @professorcasey and Twitter @cfiesler.

The Bangladesh Miracle

A decades-long CU Boulder-led study shows access to family planning shapes lives for generations. By Lisa Marshall



ON A SWELTERING July day in 1984, Jane Menken stepped off a plane in the teeming capital city of Dhaka, boarded a van for a dusty, four-hour journey to the remote villages to the south and embarked on a decades-long quest to answer a question of global importance:

What happens when women gain the ability to control their reproductive destiny?

In 1971, U.S. Secretary of State Henry Kissinger wrote off Bangladesh as a famine-stricken and insolvent “basket case.” With 64 million people, it was the world’s most densely populated non-island country. Its fertility rate of seven children per woman made it the poster child for those warning of impending “population bombs.”

When Menken arrived in Matlab, a conservative Muslim district, a transformation was quietly brewing — one woman at a time. A nongovernmental organization had begun providing free, in-home contraceptives to thousands of women.

Menken, a social demographer with a focus on public health, had been fol-

lowing the initiative and wanted to see things for herself.

“I didn’t want to be a tourist,” recalled Menken, a distinguished professor of sociology at CU Boulder. “I wanted to see how the people behind the numbers lived and to use those numbers to benefit society.”

She returned every year for more than three decades, spearheading one of the longest and largest family-planning studies ever done.

At 81, Menken is considered a pioneer in her field — one of the first to prioritize research about women and their childbearing desires.

Today, Bangladesh is a model of progress with a booming economy and a fertility rate of just two children per woman — and most women are far better off than their predecessors.

“We cannot say family planning alone caused Bangladesh’s positive development,” stressed Menken. “But the study shows family planning, in a region that is poor, illiterate and isolated, can lead to early adoption of contraception and smaller family size. It can change a mindset and have lasting effects.”

Bringing Contraception to Women Where They Are

In October 1977 the International Centre for Diarrheal Disease Research, Bangladesh (icddr,b) launched a program that empowered women to help women. Trained local women went door to door each month, discretely providing access to birth control, including injections. Half of Matlab’s 150 villages, about 100,000 households, were included.

In 1982, the program added other family health services, including vaccinations. By 1989, it scaled to other parts of Bangladesh.

All the while, icddr,b conducted detailed household surveys, tracking births, deaths, migrations and marriages. Menken’s team added follow-up surveys, asking women about their children’s health, cognition and what they did for a living when they grew up.

The findings? Women in the family planning project had fewer children, spread farther apart, more of whom survived.

“By the time these children reached 8 to 14 years old they had significantly higher cognitive functioning, were

about a centimeter taller and were better educated” than the comparison group, said Tania Barham, an associate professor of economics.

As families got smaller, public investments in education and health went further and adult children remained close to home, starting businesses and further benefiting the economy.

A Lesson for the World?

According to a recent study in the journal *PNAS*, the women in the family planning group were no healthier or richer 35 years after their participation. In fact, they were slightly heavier with worse metabolic health.

But Bangladesh is healthier: Life expectancy is 72 years, up from 47 in 1970, and infant mortality has declined to 2.6%.

Family planning, while not a silver bullet, played no small role, Menken said.

“Justice Ruth Bader Ginsburg once wrote that a woman’s ability to realize her full potential is intimately connected to her ability to control her reproductive life,” said Menken. “This study provides solid evidence.”

Andrea Fautheree Márquez (Art, Int'lAF'16; MATLAS'21) grew up in Pagosa Springs hearing stories about the racism her family faced in Colorado and her mother and grandmother's roles as activists in the Chicano Movement. But it wasn't until grad school that she was motivated to explore the intricacies of her Chicana identity.

Márquez's interest in raising awareness about the Chicano Movement of the 1960s and 1970s culminated in the completion of her master's thesis project, "Chicana

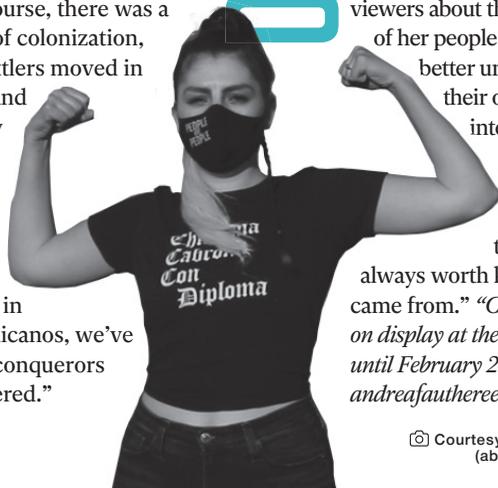
ANDREA FAUTHEREE MÁRQUEZ'S THESIS PROJECT, "CHICANA LIGHT," SHEDS LIGHT ON A LESSER-KNOWN CIVIL RIGHTS AND CULTURAL EMPOWERMENT MOVEMENT. BY PATRICIA KAWTHUMRONG

Light." The multimedia display is a deeply personal yet historically rich narrative of the Chicano experience through the lens of a biracial Chicana.

"My family, especially my mother, was deeply involved in the Chicano movement. So this whole project started out as a love letter to them," said Márquez. The 28-year-old earned her master's degree in creative technologies and design from CU's ATLAS Institute in December.

At least nine generations of Márquez's family have roots in southern Colorado's San Luis Valley, including her maternal grandparents. Participants in the Chicano Movement — many of whom self-identified as Chicano or Chicana, a person who embodies elements of Indigenous, ethnic and cultural hybridity — advocated for social and political empowerment after enduring decades of racism and discrimination in the American Southwest.

"[My family] has Spanish conquistador blood and Native American blood," she said. "The Spanish came and conquered the Natives and some of my ancestors were Native. And then, of course, there was a second round of colonization, when white settlers moved in and took this land with the Treaty of Guadalupe Hidalgo — which signaled the end of the Mexican-American War in 1848. So, as Chicanos, we've been both the conquerors and the conquered."



ROOTED IN

Márquez was inspired to explore these complexities after a year of living in Spain — where she had the eye-opening experience of connecting to her Spanish roots even though she isn't "fully Spanish" — and watching *Symbols of Resistance*. The 2016 documentary focuses on events of the Chicano Movement that took place in Colorado, including the 1974 killing of Los Seis de Boulder — six Chicano student activists — and the boycott of Adolph Coors Company to protest the brewer's treatment of Mexican American workers. The film pushed

SOUTHERN COLORADO

her to spotlight Colorado's Chicano Movement activists in her thesis project — activists who are lesser known than *El Movimiento* icons in California and New Mexico like Cesar Chavez and Reises Tijerina, respectively, but equally impactful.

In "Chicana Light," Márquez uses projection mapping to display three different videos — framed by nearly 150 Coors cans — featuring generational footage of her family dating from the 1900s to modern day. The footage includes images of Márquez's grandparents in the San Luis Valley, her mother as a student activist at Adams State University in Alamosa and her as a child.

When her project was selected to be displayed in the "Voces Vivas" exhibit at the Museum of Boulder, its focus evolved from raising awareness about the existence of Chicanos and Chicanas in Colorado to a more meaningful, multilayered message tying together her personal narrative and broader political themes. In the year-long exhibit highlighting Latino community stories from the past and present, Márquez hopes "Chicana Light" educates viewers about the history and culture of her people — and pushes them to better understand and explore their own complicated and intersectional identities.

"I think that people should not be frightened by that," she said. "It's always worth knowing where you came from." *"Chicana Light" will be on display at the Museum of Boulder until February 2023. See it and more at andreaautheree.com.*



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Wise Counsel

CU's Career Services helps alumni navigate their job searches during the pandemic.

Ever since graduation, **Stephanie Brudwick** (EnvSt'04) had been working at Thorne Nature Experience in Boulder. In 2020, she considered transitioning to a new job.

"I was feeling ready for a change," Brudwick said, "but leaving a job during a pandemic was an added layer of scary."

To explore her options, Brudwick signed up for Zoom counseling sessions with CU's Alumni Career Services.

"I did a few different tests like Myers-Briggs, and we tweaked my resume," she said. "It helped me see things more clearly."

Since the beginning of the pandemic, CU's Career Services has ramped up its offerings in response to a growing demand.

"When people started to get laid off, we knew we had to do something quick," said Jennifer Duncan, Alumni Career Services program manager. In addition to offering two free advising sessions to alumni (which are unlimited for new grads), the department launched a Virtual Job Search group, with sessions attracting 70 to 90 alumni worldwide.

Duncan also reports an uptick in alumni looking to make career pivots.

"We're seeing waves of people resigning," said Duncan. "The silver lining: It's forced people out of jobs they hated."

In response, Career Services bumped up the offerings in its Career Transition Series, and because the sessions are held virtually, Duncan said, more alums from across the country can participate. Additionally, in September 2020, the Forever Buffs Network was launched, a platform of now more than 10,000 CU alums that connects job-seekers with potential mentors. It's like LinkedIn, but just for Buffs.

Brudwick ended up landing a job with EarthHero, an e-commerce marketplace that features sustainable products. The new job offered not only a salary boost but better work-life balance — and an ethos that aligned with her experience and passion.

"The career counseling sessions were so helpful for me," says Brudwick. "They gave me the confidence to follow my heart."

Alumni Career Services offers Forever Buffs counseling to help with job transitions.



Affinity Graduations 2022



During her senior year, **Kalee Salazar** (EnvSt, EthnSt'12) participated in the revived American Indian graduation in the backyard of the Koenig Alumni Center. It was

co-hosted by the CU Center for Native American and Indigenous Studies (CNAIS) and Forever Buffs American Indian group leadership team. A local Native American drum group recognized them with an honor song, and each received a commemorative blanket.

Every year since, the graduation has occurred. The group hopes to celebrate in person this spring.

"When a Native Buff graduates, it is an accomplishment for the entire [Native American] community at CU," said Salazar, who lives in Santa Fe and works for the state of New Mexico's Indian Affairs Department.

This May, five other Forever Buffs clubs, in partnership with the Alumni Association, also will host affinity graduations. Each group — Black, LatinX, American Indian, Veterans, Lavender and Silver Buffs Marching Band — will receive specialty graduation stoles to recognize their identities, and each ceremony will feature cultural traditions to celebrate the students' achievements.

PHILANTHROPY MONTH

This March is Forever Buffs Student Philanthropy Month, a crowdfunding initiative led by the CU Boulder Herd Leadership Council. In an effort to fundraise \$20,000, students are using the CU crowdfunding platform to promote the needs of campus groups. *Find out more at colorado.edu/the-herd/philanthropy.*



HERITAGE CENTER REOPENS

The CU Heritage Center, located on the third floor of Old Main, reopened Jan. 24 after a public closure due to the COVID-19 pandemic. The museum features two new exhibits: "CU Making a Difference," highlighting alumni, faculty, staff and students who have excelled in their careers and communities, and "Righting a Wrong: The Japanese Americans and World War II," which examines the national, statewide and CU-specific experiences of the Japanese American community during the 1940s. *For more information, visit colorado.edu/alumni/stories/heritagecenter.*

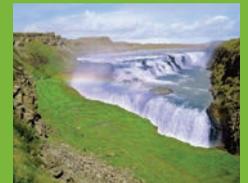
FOREVER BUFFS NETWORK

Since its launch in 2020, the Forever Buffs Network has grown to more than 10,000 alumni users. Smaller groups are present on the platform — which functions like a CU-exclusive LinkedIn — to help you reconnect with Buffs who share similar interests and CU experiences. *Sign up at foreverbuffsnetwork.com.*

2022 TRIPS



Medieval Montage
July 21–31, 2022



Circumnavigation of Iceland
July 24–Aug. 1, 2022



Switzerland, Germany and Passion Play
Aug. 19–29, 2022



Egypt and the Eternal Nile
Oct. 14–28, 2022



Grand Danube Passage
Oct. 15–30, 2022

For more information about the Roaming Buffs travel program, email roamingbuffstravel@colorado.edu, call 303-492-8484 or visit www.colorado.edu/alumni/roamingbuffs.



Addressing Food Insecurity on Campus

For some CU Boulder students, food insecurity is part of their reality. In an anonymous survey, one student said: “My financial situation is a huge burden that impacts my everyday life at CU. It is a struggle every day to afford basic things, and I have taken out a huge amount of loans because I don’t have very much family contribution.”

CU Boulder hopes to provide relief. Since 2016, the CU Food Assistance Committee has partnered with Community Food Share in Louisville, Colorado, to provide food donations to students in need. CU has hosted mobile campus food drives and opened mini pantries around campus to provide students with food.

But when the pandemic hit, food insecurity rose.

“When we started to realize the gravity of COVID-19, we started to ask, ‘What does this look like long-term?’” said Amanda Scuderi of CU Boulder’s Volunteer Resource Center (VRC).

The VRC launched Feed the Stampede in 2020 to provide students with regular food assistance and food-related resources. In September 2020, the Buff Pantry opened in the University Memorial Center near the CU Book Store. With continuing donations from Community Food Share, students have access to shelf-stable products — including the ever-popular mac and cheese — fresh produce, frozen foods and personal items. Students can visit the pantry weekly.

“Ofentimes, the student isn’t just supporting themselves,” said Scuderi. “They may have roommates, a partner or children they also are supporting.”

During the fall 2021 semester, Buff Pantry had 1,899 visits from 494 students. Twenty students voluntarily staff the pantry.

Said VRC director Hannah Wilks: “When we intervene to combat students’ food insecurity, we know they are more likely to be successful in college.”

The Buff Pantry in the UMC provides food-insecure students with items they need.



From Typewriters to Zoom



**Philip P.
DiStefano**

When I first started as an assistant professor at CU Boulder, I couldn't imagine how dramatically my work would change over the course of my career.

One of the biggest technological developments in my early years on the faculty was the advent of typewriters that erased automatically — a remarkable development that saved clumsy typists like me a lot of time.

In 2022, my primary work tools are a laptop, email and Zoom, none of which I could have easily envisioned at the beginning of my career.

Technological progress, the global pandemic, new laws and policy, evolving workplace dynamics, changing expectations about work-life balance and myriad other uncertainties are ushering in a new era for the modern worker. The very definition of “work” is changing at a pace not seen in decades.

It's up to all of us to ensure the future of work supports human dignity, encourages equity and achievement for all, and marries innovation with ethics.

I'm proud to see CU Boulder faculty, staff and students helping to create that future. Their research, teaching, curiosity and exploration will define how work takes shape for generations to come.

What hasn't changed in the world of work is the need for teams of individuals who engage around common goals. Opportunities for the free exchange of ideas, reasoned debate and shared decision-making are at the core of the public university experience, preparing students not only for successful personal careers but also to lead change on a societal scale.

Solving complex problems while honoring our humanity is at the heart of the university's mission. These values are guideposts for our work and daily lives — especially in times of uncertainty such as the ongoing pandemic and the aftermath of wildfires like the Marshall Fire.

We can't predict uncertainty — when a technological miracle, social movement or natural disaster will again transform our notions of work.

When I think about workplaces of the future, I remember how groundbreaking that simple typewriter enhancement felt at the time and how each incremental advance has brought us to where we are today.

I'm also reminded what a monumental gift it is to be able to correct our mistakes, revise and move forward.

PHILIP P. DISTEFANO IS THE 11TH CHANCELLOR OF CU BOULDER. HE IS THE QUIGG AND VIRGINIA S. NEWTON ENDOWED CHAIR IN LEADERSHIP, OVERSEEING CU BOULDER'S LEADERSHIP PROGRAMS.

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By **Andrew Daigle** (PhDEngl'16)



Men's Water Polo Competes at Nationals

Men's water polo's "A team" weathered travel headaches and elite competition to place seventh at the 2021 National Collegiate Club Championship.

This fall, Colorado men's water polo returned to the National Collegiate Club Championship for the eighth time in 25 years. The Buffaloes won the Rocky Mountain Division tournament, which earned the team a spot at Nationals, Nov. 12–14, 2021, in Huntsville, Alabama.

Despite the club's longtime success, they faced a number of challenges: the cancellation of the 2020 season, nascent relationships among teammates and no prior experience at Nationals.

"Coming off a season with no team, a lot of our players were true freshmen and sophomores and juniors who didn't play the year before," said head coach **Adam Hurd** (Econ'17).

Men's water polo practices in the CU Recreation Center pool and is funded by player dues. Players are divided into A and B teams that compete in weekend tournaments. Only the A team goes to Nationals.

In the Rocky Mountain Division, Utah is Colorado's undisputed rival. While CU beat Utah in their first match of 2021 in early October, Utah dominated the rematch 14-7 two weeks later.

"The second game was a wake-up call. That motivated us to work harder and practice more seriously," said first-year player **Benji Budic** (EBio'25).

The A team faced Utah again in the Division Championship Oct. 31, winning 16-9 and avenging Utah's 2019 conference tournament victory over the Buffs. Getting to Nationals involved more than beating Utah. Each player had to pay their share of the \$20,000 trip. To help defray costs, the team set up a GoFundMe page, which later became a CU donation site.

Then, their flight to Huntsville was canceled — and team president **Patrick Tippens** (AeroEngr'22) spent an off day changing each player's ticket and incurring hefty fees.

"We didn't arrive until 4 a.m. and we had a game at noon," Tippens said. "That was brutal."

The fourth-seeded Buffaloes beat Georgia Tech 12-7 in that opening match before losing 16-11 to eventual National Champion Michigan State. After a 12-10 overtime loss to McKendree University, the Buffaloes defeated Pennsylvania 9-8 to earn seventh place in the nation. *Find out more about CU Boulder's 30 sports clubs at colorado.edu/recreation/club-sports.*

Benji Budic (EBio'25), pictured above, at the Veterans Memorial Aquatics Center, where the team hosts their home tournaments.

CAVA Scholarship

CU announced the creation of the Colorado Athletics Visibility Award (CAVA) Dec. 1, 2021. The \$20,000 scholarship, the first of its kind in collegiate athletics, recognizes student-athletes who use their platform, power and visibility to support LGBTQ participants in sports. CAVA was founded by Buff Club development intern **Nicholas Turco** (PolSci'22).

In partnership with the College of Arts and Sciences, Turco coordinated raising over \$80,000 toward a goal of covering attendance at CU for two recipients annually, while also funding other student-athletes' projects.

Volleyball's **Alexia Kuehl** (SLHSci'24) and men's basketball's **Evan Battley** (Jour'21; MSOL'23) are the first CAVA recipients. Kuehl hopes to promote awareness and inclusion for LGBTQ identities in local schools and create an anti-bullying video to be shared in the schools. Battley wants to create change for LGBTQ individuals in CU Athletics specifically, while raising awareness and funds for future CAVA recipients.

Bufs Bits

The women's and men's cross-country teams swept the Pac-12 Championships Oct. 29. **Abby Nichols** (MSOL'22) won the women's race and was named Pac-12 Women's Cross Country Athlete of the Year. Nichols went on to finish eighth at NCAA Championships, earning All-America distinction. ... The National Football Foundation announced Jan. 10 that **Rashaan Salaam** (Soc ex'95) will be inducted into the 2022 class of the College Football Hall of Fame. ... Colorado soccer finished the 2021 season 8-7-4. Three Buffs — **Hannah Sharts** (Comm'20; MSOL'23), **Shanade Hopcroft** (EthnSt'20; Psych'22) and **Shyra James** (IntPhys'25) — were named to both the Pac-12 All-Conference and United Soccer Coaches' All-Pacific Region Teams. ... The Pac-12 announced a basketball scheduling and educational partnership with the Southwestern Athletic Conference, which is made up of historically Black colleges and universities (HBCUs). Student-athletes will take part in social justice and anti-racism activities.

STATS

20.0

Jaylyn Sherrod's (Soc'23) average points per game in the first week of 2022, when she was named the U.S. Basketball Writers Association Women's National Player of the Week.

500

Digs in the 2021 season by volleyball's **Bryna DeLuzio** (Mktg, PreNurs'23), the first CU player to reach 500 in less than 30 games.

\$18,315

Value of gift cards collected Jan. 6–9 at men's and women's basketball home games to aid those impacted by the Marshall Fire.

9

athletes connected with CU Boulder, including six current or former CU Ski Team members, represented five countries in the XXIV Beijing Olympic Winter Games.

300th

Men's basketball head coach **Tad Boyle's** career win when the Buffaloes beat Washington 78-64 Jan. 9.

Coach Talk

"THIS PLATFORM WILL TREMENDOUSLY INCREASE THE NIL OPPORTUNITIES FOR OUR STUDENT-ATHLETES WHILE SUPPORTING LOCAL AND NATIONAL BUSINESSES."

— Athletic Director Rick George on the Jan. 20 announcement of Buffs NIL Exchange, a Name, Image and Likeness (NIL) platform that connects CU student-athletes with outside parties on NIL partnerships and opportunities.

Putting His Nose in It

All-American and 2021 Pac-12 Cross Country Athlete of the Year **Eduardo (Lalo) Herrera** (Soc'21; MA&S'23) has hit his stride in his fifth and sixth years at CU. The 2020 Pac-12 cross-country champion reflects on running 90-mile weeks, seeking out local trails and stepping up with an eye to his future.

When did you start running competitively?

Freshman year of high school. I was a soccer player growing up. Back home in Madera, California, the coaches get single-sport athletes to go out for cross-country to get in shape for soccer. I started with my brother telling me to try out for the team just to stay in shape.

What was it about CU that made you want to run here?

When I came out here for my visit, it was snowing. I fell in love with Boulder. The resources in Athletics, the past championships, knowing that the team was really good. And running on soft surfaces was a priority. I was running 85 to 90 miles a week — and in the summers 100 — on asphalt and concrete. It's hard on the body. Coming here, I knew trails could save me from injury. Altitude was another factor. It gives me a benefit going down to sea level when racing. I knew I would have everything I need to be successful in this program.

You're in your sixth year running at CU. How has your role on the cross-country and track teams changed over time? The first three years I was here, I wasn't really that guy

people look up to. I would follow everyone else. Workouts were crazy. Everybody was constantly going hard. After my junior year, I started to become a leader. We switched up the whole team dynamic, the team culture. We wanted to set this foundation that everyone here is important. The younger guys are the future of CU.

Which teammates have helped mentor you?

When I came here on my recruiting visit, I met **Morgan Pearson** (Econ, Math'16) and **Pierce Murphy** (FilmSt'16). And those guys kept in touch with me even after they graduated. It's nice to have that type of friendship with those older guys.

Can you describe a typical week of training?

I've always been a high-mileage person. If I can be running 90 to 95 miles a week, it makes me feel strong when I approach a race. It also depends on where I'm at with the season. After a break, it's normal to progress slowly. But I get impatient. I want to be out there and on top of my game.

Why do you think you've had so much success in the last year? I want a profes-

sional running career. I started training differently when I wrote down the things that I wanted to accomplish post-college. Being determined and wanting to be the better version of myself. That's what changed.

What is something you've learned from head coach Mark Wetmore?

He's not going to tell you that you need to get your nine hours of sleep every day. He's not going to tell you that you need to eat healthier. You need to know that. It comes down to the individual whether or not they want to be successful.

Do you have a favorite trail in Boulder?

LoBo Trail, heading out towards Coot Lake. Aquarius Trailhead is really nice. I go to Davidson Mesa a lot for the views. It's beautiful.

During cross-country, you run 8K all season and then move up to 10K for regionals and nationals. How is it running longer distances on these big stages?

As a newcomer, like freshmen or sophomores, it's a big change. In high school, all you're doing is 5K. For me, it's not much of a difference because I put in a lot of miles, so to move up two kilometers in a race isn't terrible.



How do you prioritize not burning out too early while also making sure you don't leave anything in the tank by race's end? Sometimes it comes down to being willing to put your nose in it. You're going to finish pretty much on empty. At the NCAAs, I was feeling confident with my fitness. I knew I could compete. For some reason, I got fatigued at six kilometers and started to tense up.

I tried to maintain my position. If you're racing against really good people, you're pushing the limit.

What advice would you give your 2016 self for when you were starting to run for the Buffaloes? Be patient and trust the process. People get caught up with what others are doing. You need to do your own journey. If

you're patient and doing the right things, your time will come.

If you have time away from school and training, what are you doing? Outdoor activities. When I'm not doing that, I love playing FIFA. I also love to go explore. Go out to parks and relax, throw frisbees — that good stuff. INTERVIEW BY ANDREW DAIGLE. CONDENSED AND EDITED.

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CLASSnotes



Students were greeted with snow during their first week back on campus in January.

'60 Last November, 1958 Miss America winner **Marilyn Van Derbur** (Engl'60) sold her Miss America crown for \$20,000 and donated the money to teachers. In a press release on her website, missamericabyday.com, Marilyn said, "It can help at a time when teachers need help. I wondered why someone didn't do something for them and then I realized I am

somebody!" A sexual abuse survivor, Marilyn is a motivational speaker regarding sexual abuse healing. She has also released a book and documentary, *Miss America by Day*, telling her story.

'63 Dorothy Chen Yuan (Zool'63), a professor in the pathology department at University of Texas Southwestern Medical Center in Dallas, Texas, remembers her genetics professor Edwin Helwig and entomology professor Gordon Alexander fondly. "These were the

inspiring teachers who started me on a path to a career in biology," she wrote. At CU, she and her husband helped establish a scholarship fund in the Department of Molecular, Cellular and Developmental Biology. This scholarship is in honor of three members of the Chen family who are CU alumni. Dorothy and her husband live in Bowie, Maryland.

'64 In 2021, **Bruce Benson** (Geol'64; HonDocSci'04), former president of the University of Colorado, and his wife, Marcy,

created the Marcy H. and Bruce D. Benson Graduate Fellowship Fund in Geological Sciences. This \$6 million endowment will fund a full-ride scholarship for five graduate fellowships each year.

'68 At the 41st annual Colorado Law alumni awards banquet on March 10, **Gail H. Klapper** (Law'68) will be presented with the William Lee Knous Award. This award is given to an individual who has shown dedication and continues to provide service to Colorado Law. Gail worked as a White House fellow under the administration of former President Gerald Ford and was later a member of the Colorado governor's cabinet. Gail resides in Elbert, Colorado, and has four daughters and seven grandchildren.

'69 Kathryn Clark Childers (Edu'69), one of the first five women to work as a special agent in the U.S. Secret Service, published her autobiography, *Scared Fearless*, in fall 2020. It details her life as

a woman in the Secret Service including an inside look at Jacqueline Kennedy Onassis and her children, whom Kathryn protected during her career. *Scared Fearless*, available on Amazon or at kathrynchilders.com, also looks at Kathryn's life from childhood through adulthood and tells of the people she met along the way. Kathryn is a professional speaker, where she coaches audiences to adopt her mantra of "Do it scared!" in their own way.

'71 In October, **Sheila Hollis** (Jour'71) was honored with a Lifetime Achievement Award as part of the Women, Influence & Power in Law Awards hosted in Washington, D.C., by Law.com and its *Corporate Counsel* publication. Sheila is acting executive director of the U.S. Energy Law Association, which works in 104 countries along with the Department of Energy, Department of State and U.S. Agency for International Development (USAID). Additionally, she serves on the board of governors of the American Bar

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Association, representing its environment, energy and resources section. She is a board member of the Nanda Center for International Law at the University of Denver and addressed an international audience on the subject of the interrelationships between energy and environment in view of COP-26, the 2021 United Nations Climate Change Conference.

'76 Denver architect **Seth Rosenman** (EnvDes'76; MArch'78) designed the Colorado Fallen Heroes Memorial. The memorial — 14 years in the making — is intended to honor Coloradans who were killed during 20th- and 21st-century military conflicts: World War I, World War II, the Korean War, the Vietnam War, the Persian Gulf War and wars in Afghanistan and Iraq. Located in Lincoln Veterans Memorial Park, across the street from the Colorado State Capitol Building in Denver, it was formally dedicated Nov. 6, 2021.

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IN NOVEMBER 2021,
1958 MISS AMERICA
WINNER MARILYN VAN
DERBUR (ENGL '60)
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CA CROWN FOR \$20,000
AND DONATED THE
MONEY TO TEACHERS.



After an extremely dry Colorado summer and fall, snow was a welcome sight on campus.

'77 After being the USA Basketball women's national team director for seven Olympics, **Carol Callan** (MPE'77; MBA'87) stepped down following the Tokyo Olympics. Carol serves as the first female president of FIBA Americas, the International Basketball Federation. She was inducted into the Women's Basketball Hall of Fame in 2021.

'78 As the executive vice president and head of production at Shondaland media, **Sara Fischer** (Advert, Engl'78) oversees and manages the production of series produced by Shondaland media. Sara was in charge of the production of Netflix's hit show *Bridgerton*, which came out in 2020. She also led production of *Inventing Anna*, which debuted

Feb. 11 on Netflix. She lives in Los Angeles. A *Good and Decent Man*, a historical Christian romance by **Donald E. Hall** (EdD'78), was released on Amazon in August 2021. This 281-page novel follows farmer and mechanic Raleigh Curtiss as he serves in WWI and his quest to be with the woman he loves, despite her disapproving father. One reviewer said, "A *Good and Decent Man* has everything: love, hate, revenge, reconciliation and death plus the history of a decade that changed America forever." He lives in Sebring, Florida.

On March 10, Colorado Law will award **Herrick K. Lidstone Jr.** (Law'78) the Distinguished Achievement Private Practice award. During his career, Herrick has been a shareholder at Burns Figa & Will P.C. law firm,

published more than 30 articles for the *Colorado Lawyer* and lectured at many universities and institutes. Among his other achievements, Herrick has also served on the Colorado Bar Association's business law section as a member of the executive council. Herrick and his wife, Mary Lynne, have five grandchildren and reside in Centennial, Colorado.

'79 After the Marshall Fire, **Priscilla Dann-Courtney** (Engl'79; MPsyCh'86; PhD'91), a writer and clinical psychologist, published an article in Boulder's *Daily Camera* about how people can help their neighbors and how to cope with grief in difficult times. Priscilla has published many articles about mental health, parenting and exercise and resides in Boulder.

FIVE QUESTIONS



Telling All Stories of the American West



Gregory Hinton

Gregory Hinton (Bus'77) is a California-based author, historian and founder of Out West, a national museum program series exploring the contributions of LGBTQ communities to Western American history. Hinton hopes his work educates people about LGBTQ history and culture in the American West.

How has the LGBTQ landscape in the American West changed since you were at CU? Countless rural-born Western gay men and women of my generation (myself included) evacuated to the urban coasts — Los Angeles, San Francisco, Portland and Seattle — seeking community, companionship and safety. Fortunately, this has slowed, and now, some are returning. Despite progress in areas like marriage

equality, however, non-discrimination protections and hate crimes legislation still have not passed in many Western states.

Tell us about the work you've done as an author and historian. I attended CU on a creative writing scholarship, always hoping to have a literary career. Though I ultimately graduated with a business degree and have since published three novels

along with several short stories, plays and film productions. In 2009, I created Out West, now a national museum program. The Autry Museum of the American West in Los Angeles was the first museum to invite me to create programming dedicated to shining a light on LGBTQ history and culture in the American West.

Tell us about the Gay & Lesbian Rodeo Heritage Foundation (GLRHF), where you're a founding director. GLRHF was formed after the acquisition of the International Gay Rodeo archives by the Autry Museum of the American West in 2009, and it has been closely connected to my public programming for Out West. Its purpose is to support scholarship that illuminates gay rodeo visibility and to ensure gay rodeo receives recognition and its own place in rodeo history.

Which of your three books means the most to you, and why? It's tough to choose just one — almost like admitting you have a favorite kid. But I would have to say that it's *The Way Things Ought to Be* because it's my own coming out story, set against the backdrop of 1970s Boulder.

If you could give one piece of advice to other LGBTQ folks who want to make an impact on the community, what would it be? Don't wait for permission. Act on your hunches. Don't be afraid to write a letter or email or tweet to get what you need. Never deny who you are.

CLASSnotes



After an extremely dry Colorado summer and fall, snow was a welcome sight on campus.

'80 Last year, Denver's FOX 31 News aired a segment on **Tony Ortega** (Span'80; MFA'95), who creates artwork fusing Mexican and American culture. His work can be seen at galleries across the country, including the Denver Art Museum, the Los Angeles County Museum and the Colorado Springs Fine Art Center. His art is also exhibited in other countries, including several in Latin America. Tony is a professor in the department of fine and performing arts at Regis University.

'81 The third edition of **Matthew J. Sharps'** (Psych'81;

MS'84; PhD'86) book *Processing Under Pressure: Stress, Memory and Decision-Making in Law Enforcement* was published by Looseleaf Law Publications. Matthew is a psychology professor at California State University, Fresno, researching forensic cognitive science. He lives in Coarsegold, California.

In June, **Linda Villarosa's** (Jour'81) book *Under the Skin: The Hidden Toll of Racism on American Lives and on the Health of Our Nation* will be published. Linda works as a contributing writer for the *New York Times Magazine* and is an associate professor at the Craig Newmark Graduate School of Journalism at CUNY, which she once attended. Additionally, Linda teaches reporting, Black studies and writing at the

City College of New York. Linda resides in Brooklyn, New York.

'82 Until the start of the pandemic, **Gail Firmin** (Psych'82) was in charge of the Art & Soul program, an art mentoring class for adults with disabilities sponsored by the Developmental Disabilities Resource Center and Lloyd G. Clements Center in Lakewood, Colorado. Gail teaches adult continuing education courses in various mediums for the City of Lakewood, and her award-winning work in watercolors, mixed media, and pen and ink is on display at galleries in Lakewood. She lives in Littleton, Colorado.

'83 Evans Scholar **Gary Baines**

(Jour'83) was inducted into the Colorado Golf Hall of Fame in fall 2021. A fixture in Colorado golf journalism, Gary has covered major golf events across the state, including each of the last 38 Colorado Opens, all 21 Internationals at Castle Pines, two U.S. Men's Opens, a Solheim Cup and many other events. Gary worked at the *Daily Camera* in Boulder for 25 years, including six as sports editor. He is a regular contributor to the Colorado Golf Association's website and founded *Colorado Golf Journal* in 2008. His work has won several Colorado golf journalism awards, and most recently he was honored with the 2019 Robert Kirchner Award, recognizing outstanding contributions to the Colorado golf community. He lives in Boulder.

'84 After serving as communications director at the Yale Climate and Energy Institute, **Eric Ellman** (Geol'84) moved to London to live on a canal boat. The move was spurred by the 2016 death of his friend **Mark Pagani** (Geol'83), Yale geology and geophysics professor. From there, Eric applied for a grant from the Royal Society of Chemistry to produce climate-themed theater on the Grand Union Canal with the goal of bringing climate science to the general public. His project convenes performers and climate scientists from the United Kingdom and United States,

including those with CU's Inside the Greenhouse project, a partnership between CU's theater and science departments to creatively tell stories about climate change.

Stuart Whitehair (Hist'84; Law'87), an attorney based in Bozeman, Montana, has published his first novel. *Due North* is a murder mystery set in scenic Paradise Valley, Montana, and is available through Amazon. Stuart has maintained his connection with CU as a former member of the Alumni Association Board of Directors and has run the CU at the Game website (cuatthegame.com) for the past decade. His *CU at the Game* podcast entered its third season in 2022.

'85 On Jan. 8, **Chris Fowler** (Jour'85) and Kirk Herbstreit announced their second NFL game ever when the Chiefs took on the Broncos. Chris works as a television sportscaster for ESPN and generally announces college football. This season, Chris announced the college football playoff championship game on Jan. 10. He lives in Miami Beach, Florida.

On March 10, Colorado Law will award **Kathleen B. Nalty** (Law'85) the Sonny Flowers Award for her commitment to inclusion, diversity and equity in practicing law. Kathleen worked as a federal civil rights prosecutor, co-chaired the diversity committee for the Colorado Bar Association and wrote a

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book called *Going "All-In" on Diversity and Inclusion: The Law Firm Leader's Playbook*, among many other responsibilities throughout her career. This award will be presented at the 41st annual Colorado Law alumni awards banquet, which will take place at the Denver Center.

Teresa Schmitt Pierce (PolSci'85) is in her fourth term in the Maine House of Representatives. She is house chair of the joint standing committee on appropriations and financial affairs and chair of the marijuana advisory committee. Teresa and her husband, Sam, have two children and live in Falmouth, Maine.

'86 At the 41st annual CU law alumni awards banquet March 10, **Victoria J. Ortega** (Span'86; Law'90) will be presented with the distinguished achievement award for public service from Colorado Law. After working in the Denver city attorney's office as an assistant city

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attorney, Victoria works as the city's deputy clerk and recorder at the Denver Clerk and Recorder Office, where she oversees a variety of subjects including finances, human rights, community partnerships and data protection. She lives in Denver.

'89 Lance Geiger (PoSci'89) has made a name for himself as "The History Guy" on YouTube. In October, his channel — presenting short stories of forgotten history — surpassed 1 million subscribers, a milestone achieved by less than .005% of YouTube's 37 million channels. He lives in O'Fallon, Illinois.

'90 Edward J. Knight's (Phys'90) newest novel, *Gunslinger: The Dragon of Yellowstone*, was published by WordFire Press in April 2021. Set in a mythicized Golden City, Colorado, the book tells

the story of a 16-year-old hotel chambermaid's quest to save the western world from giants, trolls and a dragon. Outside of writing, Edward worked on Landsat 9, a satellite launched by NASA on September 27, 2021. Edward served as the chief engineer on the Operational Land Imager 2, which is taking images of the Earth's surface and continues Landsat's 50-year legacy of supporting environmental science.

'95 Centennial, Colorado, resident Rodney Lie (MusEdu'95; MA'99) was named chief operating officer for Worldwide Coaching Group (WCG). Based out of Denver, WCG focuses on training, coaching and consulting business coaches, professional sales teams and C-suite executives and entrepreneurs.

'97 Colorado Law will present **Dru R. Nielsen** (Law'97)

with the distinguished achievement award for a small or solo practitioner at its 41st annual awards banquet March 10. Dru is acknowledged as one of Colorado's best criminal defense attorneys and worked as a Colorado deputy state public defender for more than 10 years. Dru later formed her own practice, Eytan Nielsen, with her friend and partner, Iris Eytan.

'99 Shareholder of financial consulting firm BSW Wealth Partners **Nicole Murphey** (Hist'99) and her team received awards for their work, including Best for the World B Corp ranking, Outside Magazine Best Place to Work (No. 14), InvestmentNews Best Place to Work (No. 21) and Top 50 ESG Financial Advisory firm in the country. Nicole is the chief compliance officer and oversees BSW's risk management and compliance programs.



Students were greeted with snow during their first week back on campus in January.

FIVE QUESTIONS

Shoulder to Shoulder



Philip Cudaback

After graduating from CU, **Philip Cudaback** (EnvDes'88) moved to San Diego, where he worked in corporate architecture for 15 years. In 2007, he started his own firm, Lahaina Architects, which specializes in commercial architecture across Southern California. In 2011, he took on a passion project in Kearney, Nebraska, designing a memorial for the Central Nebraska Veterans Home, which houses 225 veterans. The \$2 million memorial — funded by donors — was officially dedicated on Nov. 11, 2021. Here, Cudaback shares about his passion for design and the inspiration for the monument.



about all the conflicts and sit and reflect.

What was your inspiration? "Shoulder to Shoulder," the theme of the monument — is influenced in part by CU. The design's purpose is to honor all veterans past, present and future. The design represents how all branches of the military and all veterans are connected and stand together as one cohesive unit.

What was the dedication ceremony like? It was an hour-long ceremony, with over 500 people attending. There was a ribbon cutting and the mayor of Kearney, Stan Clouse, Congressman Adrian Smith and Governor Pete Ricketts all gave speeches. I was able to meet a lot of veterans, many of whom came up to thank me. It was a really wonderful day.

Why is this project important to you? This project is outside of the work I usually do, but I wanted to help out the community, honor the veterans and just do a good deed. The veterans here deserve a beautiful memorial. It was a project I couldn't turn down.

What was the best part of your time at CU? I was always into architecture, so CU's environmental design program was perfect for me. The education itself was very rewarding, and it also taught me how to deal with people. Outside of school, I enjoyed skiing up in Dillon. I met many lifelong friends at CU that I'm still in contact with. I still love coming back to Boulder and CU a couple of times a year.

Can you describe the memorial's design? The memorial features eight, 16-foot-tall service monuments, representing the branches of service, linked together by a horizontal beam. Around them are 16 smaller, 8-foot-tall pillars, each dedicated to a military conflict dating back to the Civil War. Behind each service pillar is a U.S. flag on a flagpole. It's an educational monument for people to be able to walk around, read

CLASSnotes



After an extremely dry Colorado summer and fall, snow was a welcome sight on campus.

'00 Christina Martin (IntlAf'00) is the president and co-founder of Sator — an app that allows users to earn non-fungible tokens (NFTs) and crypto tokens as a reward for their engagement with the content they're interested in on the platform. Users have the opportunity to interact with others on the app by chatting and playing trivia. Sator has landed partnerships with many different prominent networks, shows, games and other entertainment media producers that involve exclusive NFT drops on the app based on their content. Christina lives in Beverly Hills.

'05 In December, **Sean Babington**

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(EnvSt'05) was named senior advisor for climate in the U.S. Department of Agriculture's Office of the Secretary. Before his new role, Sean served on the U.S. Senate's agriculture, nutrition and forestry committee as senior professional staff to chairwoman Debbie Stabenow, where he managed business pertaining to forestry, pesticides and climate change. Prior, he worked in the office of Colorado U.S. Senator Michael Bennet as senior policy advisor for energy and natural resources. He is also an adjunct lecturer for Georgetown University's environmental studies program.

Christopher McGrath (CivEngr'05) was named asset management practice leader of Black & Veatch, an engineering procurement, consulting and construction company. Residing in San Diego,

Christopher leads a team serving Southern California seaports.

Denver's **Katie Wall** (Thtr'05) and **Courtney Jacobson** (RelSt'07) are co-founders of TheCultureBiz, which helps companies build unique team cultures through play and connection. Katie, Courtney and their team offer workshops and resources to companies. Katie, the company's CEO, credits her knowledge of the human experience, strong public speaking ability and understanding of team ensemble building to what she learned at CU. Courtney, the COO, credits her studies at CU for teaching her about community, critical thinking and the importance of ritual.

'06 In January, **Benjamin S. Akley** (PolSci'06) was promoted to partner of Pryor Cashman, a law firm based in New York City. Benjamin works in Pryor

Cashman's litigation, intellectual property and media group where he focuses on entertainment and commercial disputes on behalf of both plaintiffs and defendants.

Saginaw Valley State University professor **Tami Sivy** (PhDChem'06) was honored with the 2021 Distinguished Professor of the Year Award. This award recognizes outstanding efforts in undergraduate education by faculty at Michigan public universities. Tami began working at SVSU in 2008 and has served as department chair since 2015. Tami teaches classes at every level, is responsible for the entire upper-level biochemistry curriculum and has mentored more than 50 SVSU students in laboratory research.

She was involved in the development of the SVSU Sustainability Center's curriculum, and has mentored many local high school teachers and students in environmental research projects. Additionally, her research on water quality has been used to help determine beach closings in Bay County and to detect COVID-19 levels in wastewater.

Jenny Trumble (Arch'06) was promoted to associate at CCY Architects, where she started in 2013 as a designer. Jenny has worked on residential and resort community projects in several locations, including Aspen and Telluride in Colorado, La Quinta in California and in China. Her projects have won several awards from the American Institute of Architects (AIA), and she received the International

Architecture Award for a project in Aspen. Jenny serves on AIA Colorado's practice and design conference committee and the arts and culture board for the City of Glenwood Springs. In October 2021, Jenny spoke at CU Denver's School of Architecture and Planning.

'07 In January, **Stephen E. Baumann II** (PolSci'07) was promoted to shareholder of Littler, a Denver labor law practice. Stephen manages employment and labor law issues for large and small companies and, if necessary, will represent these companies in both state and federal courts. He lives in Commerce City, Colorado.

'08 **Jason Reed** (IntPhys'08) was elected to the partnership of Maslon LLP, a law firm in Minneapolis. Jason was recognized on the Minnesota Rising Stars list in 2019-21, a designation awarded every year to only 2.5% of Minnesota attorneys. As a member of Maslon's Financial Services Group, Jason focuses on corporate trust litigation and bankruptcy issues. He lives in Minneapolis.

Shipwreck in the Early Modern Hispanic World, edited by **Carrie L. Ruiz** (MSpan'01; PhD'08) and **Elena Rodríguez-Guridi** (PhDSpan'07), was published in January by Bucknell University Press. This book of essays examines portrayals of nautical disasters in 16th- and 17th-century Spanish literature and culture. Carrie is an associate professor of Spanish at Colorado

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College in Colorado Springs. Elena is an associate professor of Spanish at Le Moyne College in Syracuse, New York. Both women have authored several works published in various journals.

Boettcher and Presidents Leadership Class scholar and founding member of the Colorado Creed **Ben Whitehair** (Thtr'08) was elected executive vice president of the Screen Actors Guild - American Federation of Television and Radio Artists, a labor union representing performers and media professionals worldwide. In addition, Ben serves as COO of TSMA Consulting, a premier social media management and growth firm in entertainment and technology.

'09 Chicago's **Gregory M. Emry** (PolSci'09) has joined Swanson, Martin & Bell, LLP as an associate. Gregory practices in the Chicago office and focuses on environmental law, construction and commercial litigation and business disputes. He was previously an assis-

tant state's attorney at DuPage County State's Attorney's Office in Wheaton. He received his law degree from Loyola University Chicago School of Law.

In August 2021, **Japera Walker Wilkison** (Pol Sci'09; MA'12) received a promotion and moved to Washington, D.C., to be associate director of admission at the National Cathedral School. She also serves as a freshman advisor and as a part of the school's diversity committee. She is joined by her husband, Dustin, daughters and two poodles.

'10 Two-time Emmy Award-winning filmmaker **Jamie Boyle** (Film'10) released a feature documentary, *Anonymous Sister*, which premiered at Doc NYC — America's largest documentary festival — in New York. Shot over 30 years, it tells the story of her mother and sister's opioid addiction. The film was also shown at the Denver Film Festival with an accompanying panel featuring leaders of the local and national efforts to end the opioid epidemic, including Colorado's attorney general.

A former environmental journalist based out of Colorado and Arizona, **Emery Cowan** (Jour, Span'10) now works as program coordinator for the Rural Voices for Conservation Coalition, a nonprofit that works with collaborative conservation and natural resources policy, in Hood River, Oregon. The position closely aligns with her interest in the environment.

'12 Vice president of CU Law Class of 2012 **Shandea J. Sergent** (Law'12) is lead deputy public defender in the Golden office for the State Public Defender. She is returning to Colorado Law this year as an adjunct faculty member. Shandea has tried more than 70 cases, ranging from driving under the influence to murder.

'14 On Feb. 1, **Anshul Bagga** (Law'14), assistant director in the prosecution and code enforcement section of the Denver City Attorney's Office, started as legislative counsel, where he serves as a legal advisor for the Denver city government. He has worked for the Denver City Attorney's Office since 2014.

'17 **Sean C. Slattery** (Soc'17) graduated from the New York City Police Academy in December 2021. Sean is currently working as a police officer in Manhattan.

'20 **Josh Goldin** (Fin'20) was recruited to play starting quarterback for the German Football League (GFL) team, the Saarland Hurricanes, leading them to the quarter finals of the GFL playoffs and their best ever finish — second in their division. As a CU student, Josh joined the football program freshman year as a ball boy and a walk-on quarterback. He played as a holder in the 2018 season and called offensive plays his senior year.

After graduation, **Megan Nyvold** (StComm'20)

moved to Miami, where she worked in the financial and startup industries. She now serves as head of media for Security Token Market. After developing a passion for cryptocurrency, blockchain technology and decentralized finance, she hopes to make the industry more welcoming to women.

'21 Boulder's **Thuong (Katie) Nguyen** (Psych'21) was one of five honorees awarded the 2021 National Hospice and Palliative Care Organization's (NHPCO) Volunteers Are the Foundation of Hospice Award. This award recognizes outstanding hospice volunteers across the country who have made significant contributions to hospice programs in the areas of care delivery, organizational support and teamwork. Katie began volunteering at TRU Community Care, a Colorado nonprofit healthcare organization, in August 2020 at the recommendation of a CU professor while completing her senior year of college. She is now studying nursing in New York.

'22 2018 Olympic bronze medalist, five-time X Games medalist and 2013 FIS Snowboard Halfpipe World Champion **Arielle Gold** (PreMed, Psych'22) has announced her retirement from competitive halfpipe snowboarding. The retirement comes after nine years on the U.S. Snowboard Pro Halfpipe Team. She now works in a local veterinary emergency room and is excited to pursue a degree in veterinary medicine in the fall.

FIVE QUESTIONS

Making 3D Products Better



Callie Higgins

NIST materials research engineer **Callie Higgins** (MEEngr'14; PhD'17) was awarded the federal government's prestigious 2021 Emerging Leaders Samuel J. Heyman Service to America Medal. She was recognized for her invention of a technology that detects and fixes microscopic flaws affecting the reliability of 3D-printed products.

What was the best part of your CU experience?

Probably the relationships I built in graduate school — the classes, labs and research aren't easy, but when you are surrounded by people all going through the same trials, the load seems to lighten a bit. Another highlight was transitioning to a Research 1 (R1) Institute with pretty rockin' school spirit for graduate school. My undergraduate program was at a small liberal arts college in California, the University of San Diego, where we were all too distracted by getting to live at the beach to remember our sports teams.

How do you describe your research?

The goal of my research is to help transform traditional manufacturing as we know it. We are working to develop a fundamental understanding of a technology called photopolymer additive manufacturing, with an eye on the healthcare field and tissue engineering. Our process starts with liquid material (photopolymer) that reacts with light — so that wherever you shine light, it solidifies into a 3D part you've designed. This allows you

to fabricate structures with an array of chemical and physical properties that would otherwise be impossible to make.

How did you and your team first discover flaws in 3D-printed products?

To 3D print using this technology, the resins must have absorbing qualities in order to confine the printing region to a single layer. For example, think about how the heart has four chambers; if you didn't confine the light to a defined region, you'd end up with a solid, useless blob of tissue-like material. However, this requires the material to have a gradient of properties throughout every layer, where the top is stiff and the bottom is soft. You can imagine the issues that might arise if the stiff regions of one layer didn't quite attach to the soft region of the next layer. At NIST, we're working to not only understand these regions and how they bind together, but also reverse-engineer them to produce parts with complete 3D control of their mechanical and chemical properties.

Explain how your technology aids in the

3D printing of artificial organs. The technology we invented to detect and remedy these microscopic flaws that threaten the safety and reliability of photopolymer 3D-printed structures paves the way for the use of this technology in tissue engineering. We built a 3D printer into an atomic force microscope to understand how materials change throughout the printing process. We are now working to reverse-engineer the process to print the ideal environment for cells to develop into representative tissues (like cartilage, bone and lungs).

What advancements do you hope to see in this technology? I am cautiously optimistic that our work is pushing the field of tissue engineering closer to producing small, representative versions of interesting tissues along the lines of kidneys, cartilage, bones and more. These mini tissue structures, or organoids, have the potential to revolutionize pharmaceutical testing and personalized medicine.

What I've been struck by and have found wonderful about this community is its commitment to collaboration and the understanding that the only way to truly reach the full potential of this field is by working together. That has me excited, being surrounded by so many brilliant collaborators, all working toward a dream that will potentially change the world. CONDENSED AND EDITED.

INmemoriam

1940s

Phyllis Gates Fenger (Fren'42)
Kay L. Berry (ChemEngr'44)
Alice Odell Brink (A&S ex'45)
Whipple Leonard Nutley (MusEdu'45)
Rosemary Todd Hegstrom (Art'46)
Mary Kistler Maltry (A&S'46)
Lena Spano Raymond (DistSt'47)
Ruth Bealer Mitick (PE'48)
Barbara Johns Carlton (Nurs'49)
Marie Babich Cole (DistSt'49)
Patricia Moyer Darley (Chem'49)
Betty E. Jackson (Mus'48; MA'49; MusEdu'63)
Montfort A. Johnsen (MChem'49)
Gloria E. Cowan Kessinger (Nurs ex'49)
Janet McSween Price (Bus, Mus'49)
Maryann Grometer Strain (DistSt'49)

1950s

Edward C. Arbuckle (Engr'50)
Richard J. Bernick (Law'50)
Robert W. Cox (Mktg'50)
Thomas S. Guggenheim (Mktg'50)
Maxine Standiford Hicks (Nurs'50)
Wesley P. Horner (Geol'50; MA'54)
Sylvia Stone Irvin (DistSt'50)
Wesley C. Kettelkamp Jr. (Law'50)
Carlo J. Montera (EiEngr'50)
Morley Robinson (CivEngr'50)
Beth Thornton Usrey (Bus'50)
Raymond A. Wilhite (EiEngr'50)
Shirley Hart Archer (Fren'51)
Paul E. Bartlett (CivEngr, Mgmt'51; MCivEngr'56)
Phyllis Carlson Bender (Edu'51)
John J. Bolln (ChemEngr'51)
William E. Davis (PE'51; EdD'63)
Ralph G. Goley (ArchEngr'51)
Nancy Long (A&S'51)
Donna Whiting Maguire (Edu'51)
Nancy Seebass Mercure (Soc'51)
Genevieve Duce Mortenson (A&S'51)
Marcia Tozer Osborn (A&S'51)
Richard A. Snyder (EngrPhys, Fin'51)
Leonard H. Beisheim Jr. (A&S'52)
William W. Cartozian (Mgmt'52)
Richard C. Dillon (CivEngr'52)
Jerald L. Gill (BusEdu'52)
Stanley E. Gray (Fren'52)
Gwendolyn Firth Koelling (Ger'52)
John R. Samuel (CivEngr'52)
R. Leo Sprinkle (DistSt'52; MPerServ'56)
James M. Flynn (Mktg'53)
Susan Day Hart (A&S'53)
John W. Horton (A&S'53; MD'60)
Billie Burnham Lesh (Mktg'53)
Harvey K. Litvack (A&S'53; MArt'54)
Phyllis McLaughlin Gibbs (A&S'53)
Wallace S. Paulson (ArchEngr'53; MCivEngr'69)
Lloyd G. Baysdorfer (MGer'54)
Charles E. Butler (Law'54)
John S. Endicott (ArchEngr'54)
Joyce Anderson Esbensen

(Edu'54)
Alan F. Fox (Mktg'54)
Anne Worthington Huff (A&S'54)
Gretchen Seltzer Karakas (A&S'54)
Phyllis Martin Levitt (Nurs'54)
G. Patricia Hill Lloyd (Edu'54)
Robert E. Reininga (ChemEngr'54)
Royal L. Shepherd (Geol'54; MS'68)
Frank N. Summerside (MMusEdu'54)
Arthur L. Bunn (A&S'55)
Gilbert A. Cotta (MechEngr'55; MS'56)
Blanche Shidler Greenberg (A&S'55; MEdu'71)
Charles Husted (Bus'55; MAcct'60)
Nancy E. Nelson (DistSt'55; MD'59)
Lyal E. Quinby Jr. (Mktg'55; MS'58)
Arlis Baughman Riedel (HomeEcon'55)
Patricia A. Schuessler (DistSt'55)
John W. Siple (Geol'55)
Marlene Williams Stanford (DistSt'55)
J. S. Wagner (MEdu'55; MA'60)
Robert S. Webb (Acct'55)
George W. Whitney (Geol ex'55)
Anne Mook Barton (A&S'56)
Jack N. Bell (ArchEngr'56)
Richard L. Marx (A&S'56)
Robert E. Massey (EiEngr'56)
E. Tom Pyle (Acct'56)
Ruth E. Cruikshank (Nurs'57)
Margaret Blackadar Dean (MA&S'57)
Margaret Williams Doole (A&S'57)
A. James Gielissen (ArchEngr'57)
Russell Kreider (PE'57)
Eddie F. Lucero (AeroEngr'57)
James A. McDaniel (PE'57)
Charles G. Mull (A&S'57; MGeol'60)
Leo A. Remley Jr. (EiEngr'57)
John-David Sullivan (Law'57)
Robert G. Swanson (Geol'57)
Richard E. Thornburg (ArchEngr'57)
Dale A. Berndt (PolSci'58)
Marsha Walb Heller (Psych'58)
Thomas P. Johnston (Art'58)
Karl T. Matz (Psych'58)
C. Richard McKinley (A&S'58; MD'62)
Joseph W. McKinley Jr. (MBasSci, Chem'58)
Harvey W. Reinking Jr. (CivEngr'58; MBA'69)
Kenneth C. Ruzich (EngrPhys'58)
Mary Smith Wurtz (Edu'58)
Carol Bartlett Benner (BusEdu'59)
Judith Hanser Davis (A&S'59)
John W. Elwell (PolSci'59; MPubAd'64)
William M. Foulk (Mgmt'59)
Frank W. Gappa (Jour'59)
R. Allan Greer (Law'59)
Anne E. Golseth (Engl'59)
Roburta Brodie Herzog (Edu'59)
James W. McAnally (EiEngr'59)

Oscar R. Pieper (Fin'59)
Jean Ann Tribiolet (MA&S'59)
Theodore D. Zeller (A&S ex'59)

1960s

Patricia Young Burt Bashford (MSpch'60)
John N. Collins (Acct'60)
Nancy Dixon Davidson (PolSci'60)
Edmund H. Garrett (Advert'60)
Sarah Scheiman Kitch (A&S'60)
Gerald W. Moore (A&S ex'60)
Charles W. Nagel (EiEngr; Mgmt'60)
A. J. Nichols III (EiEngrBus'60)
Richard H. Prater (MPhys'60)
Kenneth J. Schulteis (Mktg'60)
Edward M. Sitzberger (MechEngr'60)
Christopher C. Smith (Bio'60)
Orval F. Thorson III (A&S'60; MA'62)
Dorothy L. Hollenbeck (MPE'61)
Ralph H. Kratz (ArchEngr'61)
Barney F. Leveau (MPE'61)
Larry E. Longstreth (Edu'61; PhD'70)
Stanley N. Marker II (A&S ex'61)
Harriet Barron Niss (Edu'61)
Wallace D. Palmer (ArchEngr'61)
Lawrence G. Richards (EiEngr'61)
Robert A. Ristinen (MPhys'61; PHD'62)
Frank Rosenmayr (Bus, MechEngr'61)
Andras Kalman Szakal (A&S'61; MA'63)
William E. Woods (EiEngr'61)
Thomas S. Alexander (A&S'62)
E. James Andrews Jr. (A&S'62)
Reginald D. Barnes Jr. (PolSci'62)
Howard M. Beck (A&S'62)
Richard W. Blackmar (Bus'62)
Dan Boyd (Bus'62)
Judith James Chamberlin (Edu'62)
Peter M. Emrich (Bus'62)
Mary Hondros Fay (PolSci'62)
Lucy J. Hall (A&S'62; MPubAd'75)
Bob H. Helming (A&S'62)
David F. Kennedy (A&S'62)
Gladys H. Scott Kenney (A&S'62)
Kay Kramer McGinnis (A&S'62)
David J. Wheaton (AeroEngr'62)
Frances Cooley Abram (Mus'63)
Frederick W. Berg (MA&S'63)
H. Scott Fogler (MChemEngr'63; PhD'65)
Lawrence L. Huxel (Math'63)
Lloyd A. Nelson (BusEdu'63)
Gary E. White (Acct'63)
Gary L. Greer (Law'64)
Frederick K. Kleene Jr. (MechEngr ex'64)
William E. McCarthy (A&S'64)
James Minard (PhDPsych'64)
Albert T. Nolan (MBasSci'64)
Charles M. Richard (MApMath'64)
James R. Calhoun III (Fin'65)
Hossein Dastmalchian (MechEngr'65)
Charlotte Crenshaw McDaniel (Hist'65)
Charles C. Richards Jr. (Mktg'65)
Nancy Ferguson Robinson

(A&S'65)
John T. Sprott (A&S'65)
Pamela Lovejoy Beaumont (Mktg'66; MBA'68)
Susan Brueckner Browning (Nurs'66; MS'80; MS'81)
Keith L. Kaminski (Acct'66)
Peter Anthony Massaro (EiEngr'66; MS'72)
Judith Karnath Robertson (Psych'66)
Gordon D. Smith (A&S'66)
Judy Zimmerman Veydovec (Nurs'66)
Gyane Shipman Cellar (Art'67)
Margery Gaffey Coates (A&S'67; MEdu'82)
Donald V. Good (A&S'67)
Gary R. Haynes (Bus, CivEngr'67)
Nancy Lee Hope (MA&S'67)
Joan K. Lutz (Edu'67)
Hilary Hitch Parker (A&S'67)
Karen McCarthy Pfeiffer (A&S'67)
Ralph H. Scheuer (A&S'67)
Philip N. Scott III (CivEngr'67; MS'68)
Elizabeth Weigand Viele (MNurs'67)
Michael L. Cruth (Engl'68)
Sondra J. Gamzer (MMusEdu'68)
Lois English Hay (Span'68; MEdu'81)
Kenneth A. Juul (Mgmt'68)
Thomas D. Leadabrand (Hist'68)
Warren G. Lindbloom (Acct'68)
Vivian VanDyke McCullough (Math'68)
James A. Patterson Jr. (MPE'68)
Victoria E. Ruwitch (Engl'68)
Richard J. Shereikis (PhDA&S'68)
Michael K. Berry (Hist'69, MA'74)
Robert Emerson Cull (Mgmt'69; MBA'70)
Richard H. Fashbaugh (PhDMech'69)
James G. Force (Econ'69)
James R. Lampson (Mktg'69)
Norman Jay Peterson (A&S'69; PhDPhil'80)
Simone J. Vincens (PhDFren'69)

1970s

Robert D. Bolen (A&S'70; PhDComm'84)
Jerry G. Horn (PhDEdu'70)
Mary Ann Howell Myers (A&S'70)
Diana D. Pechiulli (MNurs'70)
Jill Foster Schmidt (Edu'70; MA'74)
Britton White Jr. (Law'70)
Barbara J. Antista (Psych'71)
Michael L. Cyr (Psych'71)
Frances Casey Kerns (Soc'71)
Constantine E. Sotiriou (PhDBus'71)
Carl Taibi (A&S'71)
J. Corwin Vance (MD'71; Pharm'80)
Jean Tuxworth Williams (MEdu'71)
Joanne Zimmerman (MPsych'71; PhDArt'74)
Linda L. Eberhard (PhysTher'72)
Sally Solien Edgar (MusEdu'72)
David F. Herr (DistSt'72; MBA'77)

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Thomas Simms Raley (MBA'72)
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David N. Weesner (Arch'72)
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Philip D. Hanna (EPOBio'73; MD'80)
George T. Lonkevich (Bus, MApMath'73)
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James B. Judd (PhDGeol'77)
Philip C. Fryberger (Psych'77)
Melissa Monahan Jankovsky (Span'77)
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Robert A. Irlbeck (AeroEngr'88)
Eric M. Loidl (Mktg'88)
Joseph W. Lopez (AeroEngr'89, MS'94; PhD'98)
Carl R. Pelletier (Kines'89)
Mary E. Pyle (A&S ex'89)

1980s

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Sally Specken Gass (MusEdu'80)
Richard J. Knapik (A&S ex'80)
Patricia Mason Both (Psych'81)
Larry D. Lemmons (Hist'81)
Kevin N. King (Art'81)
Paul A. Easton (Rec'83)
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Eric R. Yagi (CivEngr'83; MBA'85)
John R. Mayo (Anth'84)
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J. P. Osnes (Chem'85)
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William N. Thurmes (PhDChem'86)
Scott L. Hyden (Acct'87)
Anthony K. Ballweber (Pharm'88)

Robert A. Irlbeck (AeroEngr'88)
Eric M. Loidl (Mktg'88)
Joseph W. Lopez (AeroEngr'89, MS'94; PhD'98)
Carl R. Pelletier (Kines'89)
Mary E. Pyle (A&S ex'89)

1990s

Agnes Gayler Harford (MCompSci'90)
Peter M. Seward (MJour'90)
Mark R. Konjevod (Hist'91)
Peter M. Greenly (PolSci'92)
Michael L. Page (MFA'93)
Ronnie Sanchez (Law'93)
Robert T. Ewers (AeroEngr ex'94)
Brian L. Pohl (Phys'94)
Julie M. Murray (Law'95)
Brian A. Hess (Anth'96; MA'10)
Jonathan N. Webb (MChemEng'97; PhD'00)

2000s

Craig J. Lanning (BioChem'00; MS'11)
Jonathan A. Hookom (Soc'03)
Michael A. Trimmer (Phil'03)
Robert C. Gavrell (Law'05)
Michael M. Osberg (Anth'05)
James E. R. Sheeler (MJour'07)
Kenneth L. Chodil (Mgmt'08)
Clayton A. Keibler (EnvSt'08)
Caitlin N. King (Bio ex'08)
Karen Cutsforth Pratt (BioChem ex'08)
Kelsey S. Trentzsch (Engl'09)

2010s

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Chad M. King (MEiEngr'11)
Lucille I. Sommer (PhDComm'11)
Sean D. Edwards (MASianSt'12)
Jesselyn K. Hale (Advert'12)
William D. Bryant (MASianSt'14)
Evan M. Crabdree (Soc'14)
Edward G. Marovich (EnvSt'14)
Matthew G. Highnam (EPOBio'15)
Vincent R. Mathias (Law'16)
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Makenzie L. Kummer (Psych'18)
Kyle S. Rini (Jour'18)
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Elizabeth I. Mooney (EnvSt'19)

2020s

Nathan Clapp (CompSci ex'21)
Joshua D. Jordan (Engl ex'22)
Joshua I. Trujillo (CompSci ex'22)
Cole T. Parkinson (Fin ex'24)
Tiffany N. Karras (Film'24)

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Gerald D. Ferguson, Residence Halls
Miriam "Mimi" R. King, Housing and Dining
Barbara Lahey, Friend
Shari J. Robertson, Director of Personnel

FEEDback



Since it was first constructed in 1876, Old Main has served as a place of treasured memories.

Old Main Memories

For 65 years I have read with interest each issue of the CU alumni magazine. I was delighted to see a photo of Old Main [THEN, 1888] inside the back pages of the Fall 2021 issue.

I was a language major (Spanish, French and Italian) and spent most of my classes in Old Main. I remember sitting in the building, on the third floor, looking west at the Flatirons, admiring the gorgeous view.

I lived on University Avenue and crossed Varsity Bridge each day to get to my classes. A photo of the bridge was in the 1954 movie *The Glenn Miller Story*. Glenn Miller attended Colorado University in 1923.

Those were very happy days and I treasure my time as a student on the campus of CU.

Francine Hafer McCrea (Span'56)
Willmette, Ill.

I grew up living at my grandmother's house on Pine Street in the Mapleton Hill section of Boulder. As a little boy we'd listen to the CU football games on KBOL radio, and if the Buffaloes won the game we'd go out on the front porch to see if we could hear the bell ringing atop Old Main. I was told that a freshman was chosen to run from Folsom Field to Old Main as soon as the game was over, run up the stairs to the bell tower and ring the bell for the victory.

My great aunt graduated from CU circa 1920, as did her brother a couple or so years before her. Family lore has it that he "carried the cane" at graduation as the class valedictorian. My uncle graduated from CU in the 1930s and earned a master's degree in fine arts before the war. My mom also attended for one year, somewhere near the 1933-34 school year.

I remember in the late 1950s when my great aunt treated the whole family with tickets to a football game, probably near Thanksgiving. It was the one and only time I saw a CU football game at Folsom Field.

When I read the story about CU's victory over Oregon State in today's *Denver Post* (online) I wondered: Did they ring the bell atop Old Main yesterday evening?

Russ
Amherst, Ohio

Carroll Hardy

I was delighted to read **Jim Deeds'** (ArchEngr, Mgmt'56) letter in the Fall 2021 issue [Letters] regarding the legacy of **Carroll Hardy** (A&S'55). He was a bit before my time, but I had already become a Forever Buff when he was the tailback for Dal Ward's single-wing offensive steamroller.

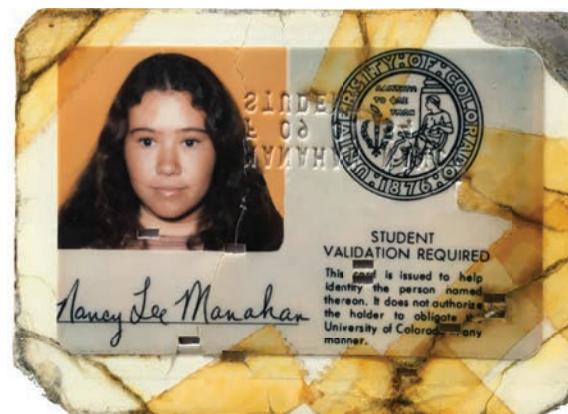
One more bit of information about Carroll

Hardy: He is the only person who ever pinch hit for the immortal Ted Williams. Once upon a time, CU had a baseball program, and Carroll excelled there as well. He was good enough to play for the Boston Red Sox, mainly as a reserve. In an at-bat, Williams fouled a ball off his foot, causing him to leave the game. Carroll finished the at-bat for him, lining into a double play. He also replaced Williams in right field after his final career at-bat, when Williams hit a legendary home run. Carroll had the additional experience of pinch hitting for the then-rookie Carl Yastremski, and later for Roger Maris. Carroll had turned to baseball after a brief career with the San Francisco 49ers, who drafted him third.

Dennis Davis (A&S'65)
Denver

Life on Mars

Enjoyed reading the latest edition of the *Coloradan*. Reading the "Life on Mars" article and about the "overview effect," I was wondering if the researchers experienced issues with the different times of day (versus Earth) based on Mars — such as longer rotational time around the



© Courtesy Carnegie Library for Local History/Museum of Boulder Collection (left); Courtesy CU Athletics (Carroll Hardy); Nancy Manahan (ID card)



Carroll Hardy was a star on both the CU football and baseball teams, and solidified a legacy for himself well beyond the university.



sun and adding something like 45 minutes per day to our 24-hour day. Makes daytime/nighttime a rather fluid concept!

Tim Thomas (Jpn'85)
Durango, Colorado

CU's Language Immersion Program

In 1972, the university (presciently!) decided to try out a language "immersion" program for their students — way ahead of its time.

Otherwise totally ordinary CU students would lodge in a dormitory where

they were to speak the specified foreign language (only) — and obtain college credits for doing the same.

In 1972, I was a college freshman entering CU and I got my last choice of dormitories (as I vaguely recall) and ended up at Williams Village on the "Spanish Language Floor" (the fourth floor, I think it was). The French speakers had the fifth floor and the German speakers had the sixth floor. I'd had four years of high school Spanish but had never "immersed" in that language — what an exciting and puzzling experiment for a college freshman to enter into.

Living and studying there changed my life in so many ways!

The early 1970 student ID card of Nancy Manahan, who lived in Williams Village.



Do you have a favorite spot in Boulder? Or a favorite that is no longer in business? Email us at editor@colorado.edu with your memories!



Have you given thought to bringing back as many of those “pioneers” — alumni in language immersion from 1972 to 2022 — to see how their lives turned out? Did living in the “foreign language house” change or affect their career or life? If so, how?

I feel that CU should not shy away from this bounty of pride and wonder — the graduates that you produced from that “experiment” have done incredible things for our country and humanity — and I, for one, think that CU should pat itself on the back via a really momentous homecoming of these otherwise totally ordinary CU students!

Nancy L. Manahan
(A&S ex'76)
Arlington, Virginia

Love for Outdoor Preschool

On Facebook, alum **Andra Stern Slavsky** (PolSci'91) commented on our fall 2021 story about **Megan Patterson's** (Comm'05) Denver outdoor preschool World-Mind: “A CU graduate piloted this innovative preschool in Colorado. Let's hope this style of learning will expand throughout my state and the U.S. Love it!”

Teka Israel (Arch'12) also shared: “This is a really cool education model!”

Special Boulder Place(s)

In response to alum **Taylor Hirschberg's** essay [Boulder Beat, Fall 2021] on his special Boulder place — Trident Booksellers — other Forever Buffs chimed in on Facebook with their own favorite city spots. They included The Sink, Tulagi, Round the Corner, Lucile's, McGuckin Hardware, Potter's and Lolita's.

Contact for Jim Wagoner

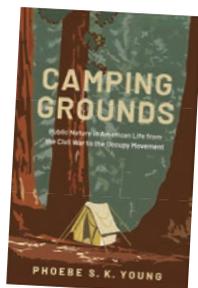
I saw in the latest *Coloradan* Class Notes that **Jim Wagoner** (EIEngr'65) is wanting to get in touch with CU graduates. I have tried to find Jim but was never successful. We worked together at Westinghouse Georesearch from 1967 to 1974.

Ed Jackson (EIEngr'67; MS'72)
Brighton, Colorado

Coloradan Love

I just read the Fall issue and as usual, you crushed it! Emily Heninger's article about the history of camping was riveting — I bought the book immediately and it's next on my reading list.

Grace Dearnley
(Engl'21)
Monument, Colorado



CU environmental and cultural historian **Phoebe Young's** book on the history of camping.

My wife asked me to pass on her thanks for the latest issue of the *Coloradan*. She very much enjoys the variety of articles that you put together.

Joe MacLennan
(MPhys'85; PhD'99)
Boulder

I'm really impressed with the great job you're doing on the alumni magazine *Coloradan*. Top drawer!

Elizabeth Trewitt Sadilek (Comm'71)
Laguna Woods,
California

Thank you for another good-looking issue of *Coloradan*.

I appreciate your including my Class Note 1984, for sure.

You and your staff do a very good job and I look forward to reading it as always.

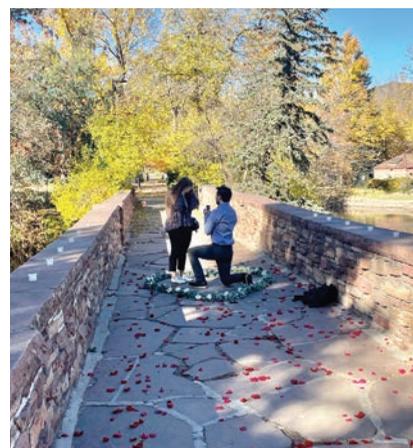
Geary Larrick
(DMus'84)
Glenview, Illinois

Letters edited for length and clarity.

Social Buffs



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shred
#snowboard
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@jlivi2



I get to MARRY my best friend!
@bai
dokooz



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Coloradan

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Coloradan aims to inform, inspire and foster community among alumni, friends and admirers of the University of Colorado Boulder, and to engage them in the life of the university. We strive to practice inclusive storytelling in every aspect of the publication. Our goal is to uplift and share stories that represent a wide range of CU Boulder experiences while working to develop a deeper sense of belonging for all involved with the university.

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THEN

1958

In 1958, CU Boulder professor Joyce Lebra became the first American woman to receive a doctoral degree in Japanese history. Lebra — who grew up in Hawaii and witnessed the exploitation of Indigenous Hawaiian and Asian immigrant populations — received her degree from the Harvard Radcliffe Institute. Four years later, she began teaching Japanese and Indian history at CU. According to the College of Arts and Sciences, she was the first and sole female history professor for 15 of her 29 years at CU.

Last spring, the Consul-General of Japan in Denver recognized Lebra for her work, and she received the Order of the Rising Sun medal and ribbon on Aug. 27. According to *The Japan Times*, Lebra wore the medal every day until her death a few weeks later on Oct. 10, 2021, at the age of 95.

Reflecting on the achievement, Lebra told *The Denver Post* in April 2021: “It’s such an amazing way to end my career and my life.”