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ALSO IN THIS ISSUE:

RODEO KINGS

TRIUMPH AND TRAGEDY:
**THE LIFE OF CU'S
FIRST BLACK ALUMNA**

FRIENDSHIP AT ALTITUDE

OLYMPIAN **ARIELLE
GOLD** HEADS BACK TO
CLASS

Coloradan

Alumni Magazine Summer 2018



BLADE RUNNERS
LEVELING THE
PLAYING FIELD FOR
AMPUTEE ATHLETES

NOW

JAN. 28, 2018

Boulder's Third Flatiron is notorious for drawing climbers with wild ambitions. Since the 1950s people have summited in all kinds of gear, including roller skates. At least one man climbed naked.

In January, CU Boulder senior **Rilyn VandeMerwe** (EnvDes'18) put his own stamp on the tradition: He made the climb in a wet suit, snorkel, goggles, prop oxygen tank and flippers. He and two friends reached the summit in less than two hours.

"I am constantly trying to find new ways to explore and have fun in Chautauqua," he said.

In addition to the scuba ascent, VandeMerwe established what he calls the "Flatiron Triple Crown" — climbing the first, second and third Flatirons while carrying along a hobby horse.

His next goal? Climbing all 54 Colorado fourteeners by the time he graduates in the fall. He's got 14 to go.





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COVER "I just want everyone to be able to move like I can," CU's Alena Grabowski said of her work with athletes who compete in prosthetics. Photo by © iStock/filrom.

LEFT Alan Sanchez (AeroEngr'17; MS'18), one of about 100 CU Boulder students with federal DACA status, has his sights set on a career in spacecraft propulsion. Photo by Glenn Asakawa.

EDITOR'S NOTE

In Boulder this spring there was fresh talk of bears: Observers noted their curiosity about life east of Broadway, prompting questions about how to ensure harmony among their species and ours. Perhaps, some say, bear-safe trash cans, required west of Broadway, would be wise east of it, too.

As far as anyone noticed, bears kept out of CU's campus trees this year. But animal life abounds here, refreshingly so. Come spring, ducks court in the pond atop the water cascade by the Woodruff Cottage. Migrating geese squawk on the sward. American robins banter in the morning.

One April afternoon I spied 10 bunched turtles sunning on a single log in Varsity Lake. The turtles will lounge in the lake all summer and fall.

CU Boulder's cherished proximity to natural grandeur is more than a matter of adjacency; we nourish wildlife here. Wandering campus aimless but alert, your cup could runneth over.

Eric Gershon



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IMMIGRATION AND CIVIL RIGHTS

Ming H. Chen, associate professor at Colorado Law, directs the CU Immigration Law & Policy Program and serves on the Colorado Advisory Committee to the U.S. Commission on Civil Rights.

You're working on a book titled *Constructing Citizenship for Noncitizens*. What's it about, in a nutshell?

For the last decade, U.S. immigration policy has focused nearly exclusively on enforcement: Stopping unlawful entry, stopping criminal aliens and stopping foreign terrorists. My book argues that this is a mistake, and that immigration lawyers, scholars and policymakers concede too much when they focus all their energies on responding to immigration enforcement. Instead, I argue that they need to advance a conversation about immigration and citizenship that includes integrative goals alongside enforcement and moves away from the fixation on formal status to the exclusion of other forms of membership.

How did you decide to focus your career on immigration law and civil rights?

I attended a California public high school in the 1990s. California is thought of

as a refuge for immigrants, with inclusionary immigration policies, but voters there have approved ballot initiatives to restrict public benefits for undocumented immigrants, affirmative action for racial minorities and bilingual education in public schools. My first political experiences were community organizing and voter registration to oppose those initiatives.

Although some of those initiatives would later be overturned in court, essentially, we lost. That left me feeling two things that continue to shape my career: One, there is a lot of important work still to be done, and, two, non-majoritarian institutions like courts or agencies play an important role in shaping public policy. We cannot rely on the principle of 'whoever gets the most votes, wins' to achieve just results, especially when we're talking about immigrants and minorities who lack equal footing.

Are domestic political events changing the way you teach or what you research?

Mostly in the sense of urgency rather than in core content. There was a time when race and immigration were seen as marginal issues in the academy, and those studying them had to strive for respect. There is no longer any doubt that

these subjects are critical to established subjects like Constitutional law and American politics. My students are extremely motivated, and know that learning about these subjects matters to the world. My colleagues and the university, too, are seeking expertise and guidance. If there is a silver lining to all the strife, it is that we have opportunities to teach and learn on a daily basis.

Have many CU students or DACA recipients come to you seeking advice?

My interactions have been primarily with DACA students and international students. It's been challenging to level with students who want comfort and encouragement about how uncertain our legal environment is right now and to tell them that, like them, the experts are wondering what happens next. The law school hypotheticals are now realities. What used to be a question of 'what if' is now a question of 'what now.'

If you could make one major change to current U.S. immigration policy, what would it be?

To broaden the dialogue around immigration policy and our conception of who are immigrants in the U.S. There is the danger of falling into the 'illegal-

ity trap' that sees immigrants as law-breakers and the purpose of policy as enforcement. It is vital that folks engage on the front lines when children and community members are being deported. It's also important to recognize that there are many kinds of immigrants and that they're all vulnerable.

Where are you from originally and what brought you to Colorado?

I was born in the United States to immigrant parents who migrated as international students to a western public university (Montana State) and have now lived in the U.S. longer than in their native countries of China and Taiwan. We lived largely in California with significant time on the East Coast before I began this faculty position at CU.

CU has been an interesting place to work on civil rights and immigration. I really appreciate that CU is a flagship public university that draws students from all over the nation and is the first choice of so many students in the western U.S. and increasingly abroad. It is for that reason that it needs to be thoughtful and engaged about immigration and civil rights.

Interview by Lauren Price (MJour'17). Condensed and edited.

Campus

News SUMMER 2018

Utterly Trivial (and Totally Worth It)

DIE-HARD VETERANS OF CU'S TRIVIA BOWL TEST THEIR METTLE AGAIN

THE BAND WAS BACK together. Three-quarters of it, anyway.

Children of a Lesser Godzilla — an iteration of the 1991 CU Trivia Bowl's winning team, The Godzillas Must Be Crazy — reunited **Dick Shahan**



The CU Trivia Bowl was a defining element of campus culture.

(Engl'71; PhD'85), Sandy McVie and Dave Wallack, plus fresh recruit **Harry Hawthorne** (DistSt'74). The occasion, in April, was a three-day revival, 50 years after its debut, of the CU Trivia Bowl, the live, game show-like trivia tournament that helped define cultural life at CU Boulder starting in the late 1960s.

"On Friday morning of each trivia bowl week, there would be people standing in line outside the UMC to get seats," said Shahan, a retired Boulder librarian who played in about 15 bowls starting in 1975.

In its heyday, the bowl attracted hundreds of players from around campus and far afield. Modeled on the relatively earnest GE College Bowl, popular nationwide in the 1960s, CU's version emphasized pop culture: Sports, music,

show business and the like.

Over five days each spring, 64 teams faced off in a bracket-style contest under bright lights in the Glenn Miller Ballroom — for bragging rights, a trophy with Mickey Mouse ears and the sheer fun of it.

The bowl's last regular year was 1993, amid fading interest.

But every so often, the die-hards reconvene. **Paul Bailey** (EnvDes'83; MA'94) and **Dan Rector** (Edu'73) led the latest effort.

If turnout was modest and the setting less Hollywoodesque — 16 teams of four tested their mettle over three days at the Williams Village Center — it was a delight to savor for Shahan.

His powers of instant association were on display when the moderator listed about a dozen female song characters and asked which recording artist's oeuvre contained them all.

"Bruce Springsteen!" he called out — correctly — after buzzing in.

Godzilla made it to the quarterfinals. In the end, Some Guys Walk Into a Bar, a team of conspicuously young participants, won.

Shahan was okay with that. The latest bowl had done its job.

"It brought it all back again," he said.

For Dick Shahan's commentary and sample questions, visit colorado.edu/coloradan. Search "Boogie (With Your Baby)."

EG

Photo by Jerry Stowall, from *Coloradan* Collection, CU Heritage Center

BOULDER BEAT By Paul Danish

FRANK AND ME

I WOULDN'T HAVE GOTTEN to know Frank Oppenheimer if I hadn't crashed the Conference on World Affairs (CWA) party at his house.

It was 1968 — Tet, protests, draft card burnings, pot, acid, LBJ calling it quits, the McCarthy and Kennedy campaigns, Martin Luther King's assassination and the world's first heart transplant. The panelists had plenty to talk about.

I knew Frank's backstory. He was J. Robert Oppenheimer's kid brother, and also a brilliant physicist who'd worked at Los Alamos.

In 1949 he admitted that he and his wife, Jackie, had been in the Communist Party as students. In the McCarthy era, the admission made him professionally radioactive. For the next eight years they lived on a ranch outside of Pagosa Springs.

Eventually Frank began teaching physics at Pagosa Springs High School. Several of his students promptly took first prize at the state science fair. But Frank didn't have a teacher's certificate. So he was sacked. That's when then-CU President Quigg Newton hired him to teach at Boulder.

Fast-forward to 1968. The CWA parties were legendary. Conference participants, some of the planet's wittier people, would down a couple of drinks, network and show off for each other.

It was a great party — especially after I found the records.

I'd gone downstairs to use the john. The basement was full of Frank's old books and 78 rpm records, including *Songs of the Free Men*, a World War II-era album by Paul Robeson, the singer, actor and far left activist.

It was a mash-up

of anti-Nazi, Red Army and protest songs, like "Joe Hill," "Katyusha" and "The Peat-bog Soldiers," a haunting song sung by concentration camp inmates.

It was my favorite album when I was four years old.

I had no idea what the songs were about until years later, of course. But Robeson had one of the greatest voices God ever put into a human being. The songs still resonate with me.

Frank found me reading the album notes. I told him about how *Songs of the Free Men* had been my favorite "children's" album.

Without a word, he fired up an ancient phonograph, and for the next 15 minutes we listened to the old songs. And quietly bonded.

One of the 1968 CWA speakers was Scott Newhall, executive editor of the *San Francisco Chronicle*.

He said American newspapers needed young journalists "who won't compromise with editors and publishers."

"So hire me," I said (in so many words). And he did.

Newhall also helped Frank get a gig in San Francisco — creating a revolutionary, hands-on science museum called the Exploratorium. It transformed the world's ideas about museums and science education.

The Oppenheims got a condo on the twisty block of Lombard Street. I used to visit them there. Frank taught me a lot of things, mostly things that — like the songs on the album — I didn't really understand until years later.

Frank died in 1985. He was the best professor I never took a course from.

Paul Danish (Hist'65) is a Coloradan columnist.

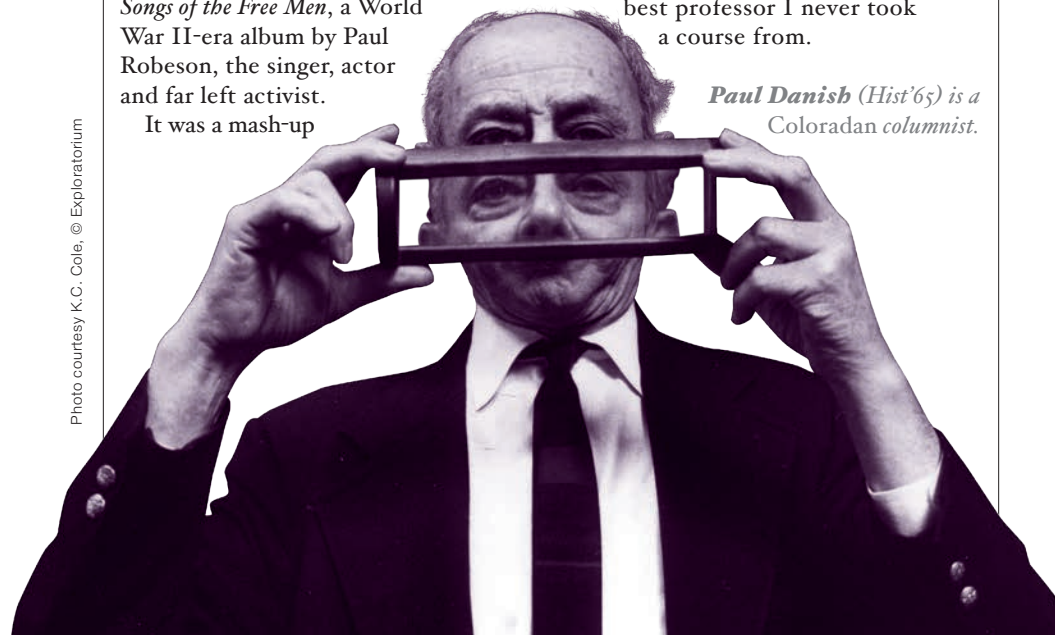


Photo courtesy K.C. Cole, © Exploratorium

Kale Aplenty

CU BOULDER GETS SERIOUS ABOUT GREENS



DRIVERS ON U.S. HWY 36 zoomed past a new sight at Williams Village this spring — a vibrant purple glow emanating from the second floor of the complex's Village Center dining hall.

The source was CU Boulder's newest and perhaps most unusual greenhouse, a 3,000-square-foot facility on site that can grow as many as 6,000 plants at once and is on track to become the primary source for the dining hall's greens.

There's no dirt here: The plants are housed in 137 eight-foot-tall hydroponic grow towers that deliver water and nutrients to the plants without the need for soil. The greenhouse climate is a steady 65 degrees during the day and 55 at night. Lights automatically turn on as sunlight dims.

"When you see something being grown right in front of you, you have more appreciation for your food," said CU farm manager Alex Macmillan.

The greenhouse provides lettuce, kale and arugula for the Village Center salad bar and chefs. Each tower yields up to three pounds of food each month. If there's surplus in the future, the extra greens will be available to other CU dining halls and campus catering units.

"Nothing gets wasted here," said Macmillan, the sole farmer for the greenhouse. "The appetite for greens at CU is pretty crazy."

When students are on summer break, he'll experiment with basil, dill and parsley.

He was pleased with his first small batch of crops, in March — about 35 pounds of food in all. He initially grew the greens in small, spongy, foam cubes in the greenhouse, then moved them to the grow towers, where they bathed in continually circulating water and fertilizer. After about a month, it was all ready to eat.

"The kale is getting out of hand," he said in April, pointing to the flourishing towers. "And the arugula has gone wild on me."

By *Christie Sounart* (Jour'12)

Photos by Jesse Petersen/University of Colorado

THE VIOLINIST

The Grammy-winning Takács Quartet, based at CU Boulder since 1986, has a new member for the first time in more than a decade. Harumi Rhodes, a CU Boulder assistant professor of violin, has joined the globe-trotting classical ensemble as second violinist. Founding second violinist Károly Schranz retired from the group May 1, after more than 40 years. The quartet, which originated in Hungary in 1975, now has an even number of women and men for the first time.



HEARD AROUND CAMPUS

"IMAGINE 20,000 PEOPLE TRAPPED IN A METAL BOX FOR DAYS. THAT'S PRETTY SCARY."

— CU Boulder engineering professor Keith Porter, who recently estimated the number of people likely to get stuck in elevators following a major San Francisco Bay Area earthquake.

A LOVER'S TOUCH

When Pavel Goldstein's wife, Alexandra, was in labor with their daughter, Alexandra felt less pain while he was holding her hand.

This made Goldstein wonder: "Can one really decrease pain with touch, and if so, how?"

So the CU Boulder postdoctoral researcher devised an experiment, and the results are in: A loving human touch can, indeed, ease physical pain.

In a study published in the *Proceedings of the National Academy of Sciences*, he and collaborators found that women subjected to mild heat pain reported less discomfort when they held hands with their partners than they did without the benefit of touch.

The study, involving 22 heterosexual couples, showed that holding hands synchronized the couples' breathing, heart rate and brain waves, which correlated with diminished pain.

"It appears that pain totally interrupts this interpersonal synchronization between couples and touch brings it back," said Goldstein, of CU Boulder's Cognitive and Affective Neuroscience Lab.

For additional details, visit *CU Boulder Today* and search the phrase "lover's touch."

© iStock/bob_sato_1973

DIGITS

RALPHIE-SHAPED SWIMMING POOL

2014

Opened at CU Rec Center

68

Thousand gallons of water (volume)

7

Months in use, annually, give or take

ONE

Pool volleyball net and basketball hoop

150-200

Student users on a sunny summer day

1

Weekly movie and music evening (summer)

LOOK WHO'S HERE



OUR NEXT GUEST IS...

Larger-than-life cultural figures make their way to CU Boulder every year. Spring 2018 offered a conspicuous bounty, with live appearances by, among others: Pundit Ann Coulter, comedian Hasan Minhaj, CNN's Anderson Cooper, Olympic medalist Aly Raisman, astronaut-physician Mae Jemison and hip hop artist Common (all pictured). David Sedaris was here, too. Who's on deck? Stay tuned.



THE HILTONS ON CANYON

Headed back to Boulder to visit your alma mater? Stay at our sister properties, Embassy Suites and Hilton Garden Inn, the two newest hotels in Boulder:

The Hiltons on Canyon!

You will enjoy two full-service restaurants, Brickstones Kitchen & Bar and Garden Grille, a heated rooftop pool open year-round, two fitness centers, two outdoor courtyards and over 1,500 pieces of locally sourced artwork.

As a CU alum, you'll also enjoy *15% off year round!*

on canyon
YOUR ADVENTURE AWAITS
AT OUR URBAN RETREAT



Early producers of KGNU's "Hemispheres" interview program, 1980s. At left: CU sociologist Rolf Kjolseth.



RADIO DAYS

For **David McIntosh**, 88.5 will always be a magic number.

"I'm a radio geek," said the Louisville, Colo., resident, who entered CU Boulder as a radio enthusiast in 1976 and became a key player in the formation of Boulder's first nonprofit community FM station, 88.5 KGNU.

The station, which began broadcasting in May 1978, still operates today, powered by a small army of volunteers who keep the music and talk flowing 24/7. McIntosh, who remains involved 40 years later by helping to orient new volunteers, tunes in almost every day.

FM radio grew rapidly in the late 1960s and '70s. But attempts to start a CU FM station had come to naught by McIntosh's arrival as a 23-year-old freshman.

He wasn't the only student eager to make use of the radio frequency, which offered better sound quality than AM and attracted an experimental crowd.

After CU administrators stopped pursuing a campus FM station in the early 1970s, students raised about \$140,000 for radio projects through self-imposed fees, said McIntosh (Comm'80; MTeleComm'84). This supported construction of basement studios in the UMC, home today of

campus Radio 1190 AM.

Through a student government role, McIntosh also helped direct about \$35,000 to a local group called the Boulder Community Broadcast Association, which was starting a local FM station independent of CU.

The cash infusion proved decisive, and KGNU began broadcasting May 22, 1978, from studios along Boulder Creek.

KGNU depended on volunteers from the start, and still does — about 250 now, said station manager Tim Russo, part of the small paid staff.

The station has also kept faithful to community radio spirit, deferring to

the tastes of volunteer disc jockeys and providing airtime for pundits and programs outside the mainstream. Its long-running reggae and hip hop shows were among the nation's first, McIntosh said. Bluegrass is a hallmark. The voices of Ralph Nader, Noam Chomsky and Juan Gonzalez regularly travel KGNU's airways, along with "Democracy Now" and BBC news, for instance.

Said McIntosh, who went on to a telecommunications career apart from KGNU, "We help our listeners be good citizens."

By Eric Gershon



BLADE Runners

CU'S ALENA GRABOWSKI IS HELPING A NEW GENERATION OF AMPUTEE ATHLETES REIMAGINE WHAT'S POSSIBLE.

By Lisa Marshall

HOURS BEFORE STUDENT ALARM CLOCKS go off, **Alena Grabowski** (Kines'98; PhD'07) slips on a head lamp and trail shoes and heads for the hills.

When she's in motion, the 60-mile-a-week trail runner doesn't think much about how her foot hits the ground with each step, how she slightly adjusts her balance as she rounds each switchback or how her stride might be different if her calves were made of carbon fiber instead of flesh and bone.

But when she gets to work at CU Boulder, that's all she thinks about.

One of a half-dozen researchers on the planet who specializes in studying low-

er-limb prostheses for runners, Grabowski, director of CU's Applied Biomechanics Laboratory, has dedicated her career to helping elite amputee athletes like former South African sprinter Oscar Pistorius, aka the "Blade Runner," and German long-jumper Marcus Rehm, aka the "Blade Jumper," address a controversial question that could make or break athletic dreams: Should runners with prosthetic legs be able to compete alongside non-amputees?

Meanwhile, Grabowski is also developing a new generation of prostheses — blades — that could enable everyday athletes to do things that are difficult, if not impossible, to do today. Among

them: Trail running.

"I never take for granted the fact that I can get up in the morning and go for a run without even thinking about it," said Grabowski, 45, who has run 50-mile events in Colorado's San Juan mountains and multi-day races through the Italian Dolomites. "I just want everyone to be able to move like I can."

UNFAIR ADVANTAGE?

Grabowski won't forget the moment in August 2012 when Pistorius burst out of the blocks in London Stadium, becoming the first runner without biological legs to compete in the Olympics. As she

watched on TV, the humble scientist couldn't help but feel pride knowing she helped get him there.

"It was a huge deal for the Paralympic community," she said. "And for me, career wise, it was a turning point."

The daughter of a track coach in Minnesota, Grabowski started running not long after she could walk. When she arrived at CU Boulder as a student in the mid-1990s, she began translating that passion into a unique career. She earned a bachelor's degree and a doctorate in CU's integrative physiology department, studying under sports biomechanics researcher Rodger Kram. During post-graduate

work at MIT, she worked with Hugh Herr, a famed mountaineer who lost both his legs after a climbing accident and now develops bionic prosthetics.

All along, she kept hearing about Pistorius, who was making headlines for his impressive times in the 400-meter, and for rumors that his

TO CATCH BLADES THAT FLY LOOSE: A NET BEHIND THE TREADMILL.

J-Shaped Össur Cheetah blades gave him an unfair advantage.

In 2008, just as Grabowski was wrapping up her post-doctoral work, the International Association of Athletics Federations (IAAF) banned Pistorius from competing against able-bodied runners, citing a German study that concluded his blades allowed him to expend 25 percent less energy.

When his lawyers scoured the globe for a scientific team that could provide a second opinion, they found Herr, Kram and their junior colleague — Grabowski.

“It was exciting just to be a part of it,” she said.

The team gathered at Rice University in Texas, then among the only labs with a treadmill fast enough to measure



Pistorius at full throttle. Over three whirlwind days, they and four researchers from other universities assessed his biomechanics, energy expenditure and endurance at a lightning 24 mph pace.

In the end, the researchers struggled to agree how to interpret the data they'd

collected. But five of seven — including Herr, Kram and Grabowski — concluded that Pistorius's blades put him at a *disadvantage* because they pushed off with less force than a biological limb would.

They also concluded the methods the German researchers used to measure aerobic energy expenditure were flawed.

Bottom line: There was “insufficient evidence” he had a competitive edge, Herr, Kram and Grabowski concluded.

They made their case before the Court of Arbitration for Sport — and won. Pistorius (who in 2015 would be convicted of murdering his girlfriend and ultimately sentenced to more than a decade in prison) was eligible for Olympic competition.

At the 2012 summer Olympic games, he made history, running the 400-meter event in 45.44 seconds, the first double-amputee ever to participate.

“For kids who had an amputation and for adults who had some sort of physical disability — to see this guy push the boundaries like that, it opened a door,” Grabowski said.

She's worked hard to keep it open.

BURDEN OF PROOF

Today, six years after Pistorius' Olympic debut, the IAAF maintains a 2007 rule prohibiting mechanical aids, unless an athlete can prove they don't provide a competitive advantage.

Essentially, Grabowski said, amputee athletes are guilty until proven innocent by science.

That stance, and similar policies by high school and college governing bodies, puts her rare expertise in high demand.

In 2016, she provided scientific evidence to the NCAA that paved the way for below-the-knee amputee Nicky Maxwell to run track at Harvard.

In 2017, she persuaded the NCAA that — as with Pistorius — there was no scientific evidence

suggesting high school sprinter Hunter Woodhall, whose legs were amputated below the knee in infancy, is advantaged by his prostheses.

“I am running in college in large part due to Alena and her work,” Woodhall, 19, said from his dorm room at the



“No one can just put on a pair of blades and be instantly fast...You still have to train.”

University of Arkansas. He is the first double-amputee ever to earn a Division 1 track and field scholarship.

Meanwhile, German long-jumper Rehm is waiting for science to answer key questions about his blade.

His hopes of competing in the 2016 Rio Olympics were dashed after the IAAF determined he'd failed to prove he had no advantage. Grabowski, who has studied Rehm extensively, determined his prosthesis decreases his run-up speed but provides a more efficient take-off for the long-jump. She'll study amputee long-jumpers further.

“It's an important question, but also an elusive question,” she said. “How can you really determine conclusively whether someone has an advantage or disadvantage?”

BUILDING A BETTER BLADE

At CU, Grabowski has her own state-of-the-art treadmill, a shiny \$100,000 machine that can clock runners at up to 30 mph and measure their force in 3D. Sometimes she places a net at the back in case their blades come loose.

One morning this spring, 35-year-old trail runner and marathoner Steve Hinson, who lost a leg in a lawnmower accident at age 9, hopped on the treadmill with dozens of sensors affixed to his body.

As he ran at various speeds and inclines, fresh data accumulating, Grabowski looked on, contemplating ways to help him and runners like him.

Contrary to common belief, prosthetic blades haven't advanced much in the past decade, she said. For sprinters, they feel awkward and cumbersome in the starting blocks, and they perform poorly in curves. For trail runners, the inert limbs can be uncomfortable over long distances, and they lack the sensory feedback mechanisms that aid smooth movement up and down hills.

“I think we can do a lot better,” Grabowski said.

She envisions a day when impaired athletes can choose among various blades — models sanctioned by sound science for use in strictly governed competitions, and models for anything-goes fun-runs, which might, indeed, help them push beyond the limits of the human body.

Ultimately, blade runners say, athletic success at the highest level requires more than technology.

“The reality is, no one can just put on a pair of blades and be instantly fast,” said Woodhall, the Arkansas runner. “You still have to train and lift and take care of yourself and put in the work. No one wants to have all that work discredited by people saying the only reason you can do what you do is because of your blades. That's why the work she is doing is so important.”

Lisa Marshall (Jour, PolSci'94) writes about academic research at CU Boulder.

RODEO Kings



John Branch (Mktg'89; MJour'96), a Pulitzer Prize-winning sports reporter for *The New York Times*, recently published *The Last Cowboys*, a book about America's most successful rodeo family, the Wrights of southwest Utah. Branch responded to questions from the *Coloradan* by email. Additional photographs at colorado.edu/coloradan.

Bill and Evelyn Wright have 13 children and many grandchildren. How many compete in rodeos, and how many national titles have they won?

Seven of those 13 children are boys, and they've all competed in big-time rodeo. Right now, five of the Wright brothers are pro cowboys, and three have won season-long titles in saddle-bronc riding, rodeo's classic event. Cody, the oldest brother, has three boys who have turned pro, and one won the title last year. Think of it this way: The Wrights are to rodeo what the Mannings are to football,

if the Mannings had a few more NFL quarterbacks and others on the way.

What seems to explain their success?

Part of it is genetics, part of it is persistence. But the secret is Cody. He was successful as a teenager in all the riding and roping events, but settled into saddle bronc. He became the best in the world, the best possible teacher to each of his brothers and, eventually, his own sons.

How did you first encounter the Wrights, and what made you realize their story might be worth telling at length?

A former editor told me about this big family from Utah with a bunch of bronc-riding boys. It wasn't just rodeo that made the story interesting. It was this family, led by Bill and Evelyn, and the land where they ran a modest cattle operation, on the boundary of Zion National Park. It's stunningly beautiful and has been part of the family since the Mormon migration about 150 years ago.

Bill, especially, wants to leave a legacy for his children and grandchildren, so he's trying to build the herd big enough to sustain the coming generations, fueled by rodeo earnings. The idea of hinging a future in the New West to rodeo and ranching, two anachronisms of the Old West, fascinated me.

Was there a central question you had in mind as you reported it?

Is there still a place for these people as the outside world closes in? Their traditions are being trampled by the churning wheels of change, including urbanization, federal-land debates, global warming and drought. It might chase the Wrights off their precious land. That's the crux of the story — how to build a future while holding on to the past.

What did you learn about rodeo that you never knew or fully appreciated?

One, it is crazy dangerous. I've covered all the major sports, and plenty of extreme ones, and rodeo cowboys are the toughest

athletes I know. Two, they go to incredible lengths — literally, sometimes driving 1,000 miles — just to ride a bronc or a bull, all without the promise of a single dollar. And it's always a long ride home.

Did reporting *The Last Cowboys* affect the way you see the West?

I grew up in Golden, Colorado — “Where the West Lives!” as the arch over Washington Street downtown shouts — and spend a lot of time bouncing around the West for *The New York Times*. But I certainly think a bit more deeply when I see broad rangeland, barbed-wire fences, herds of cattle and sun-baked men in cowboy hats. I wonder how many more generations that way of life will last.

If you've tried saddle-bronc riding, how'd it go?

I haven't, and I wouldn't. But it's now one of my favorite spectator sports.

Interview by Eric Gershon.

LUCILE

LONG OVERLOOKED, THE FIRST BLACK WOMAN TO GRADUATE FROM THE UNIVERSITY OF COLORADO COMES ALIVE IN A NEW BOOK BY CU BOULDER'S POLLY MCLEAN.

By **Clint Talbott**

IN THE NARROW COLUMNS of newspaper type, Polly McLean sensed a bigger story. A story with layers of triumph, heart-break and betrayal that revealed hard truths about the history of the University of Colorado and America itself.

For decades, CU Boulder's official history recorded that the first black woman to graduate from the university, **Ruth Cave Flowers** (A&S'24), earned her degree in 1924. But in 2001 McLean learned from an old newspaper report that the first had actually graduated in 1918. Her name was **Lucile Berkeley Buchanan Jones** (Ger1918), and she'd lived to age 105.

By the time McLean, a CU Boulder media studies professor, read the *Rocky Mountain News* story, it was nearly a decade old. And yet Lucile remained obscure, even at CU.

HER STORY IS PART TRIUMPH, PART TRAGEDY.

"That set me on this journey," McLean, the campus' first tenured black woman, said at the inaugural Lucile Berkeley Buchanan Lecture in April.

Over the next decade, McLean exhumed Lucile's story, fragment by elusive fragment, elevating her to her rightful place in CU's history. In a book to be published this summer, *Remembering Lucile: A Virginia Family's Rise from Slavery and a Legacy Forged a Mile High* (University of Colorado Press), McLean brings Lucile to life and corrects the record in painstaking, at times painful, detail.

McLean's work also led CU Boulder to make a public gesture of atonement for a searing act of bigotry 100 years ago, when Lucile was barred from walking across the Macky Auditorium stage to receive her degree. At Commencement 2018, the university invited McLean to accept Lucile's diploma, a move Chancellor Philip P. DiStefano called "long overdue."

The symmetry was striking and poignant: CU's first black woman graduate finally received the respect due her thanks to the dogged work of McLean, a fellow CU pioneer.

CHILD OF SLAVES

The daughter of emancipated slaves,

Lucile Berkeley Buchanan was born in 1884 in Denver. Her family lived on land purchased from P.T. Barnum, the circus mogul and cynic known for his "sucker born every minute" quip.

Lucile became the first person in her family to graduate from not one, but two, Colorado universities: In 1905, she was the first African American to graduate with a two-year degree from what now is the University of Northern Colorado.

After a long career as a school teacher, mainly in Arkansas and Illinois, she lived in Denver until her death in 1989, when she was interred in an unmarked grave.

Lucile entered Polly McLean's life in 2001, as McLean researched an assignment she'd given her women's studies class: Uncovering the history of black women in Boulder.

During a visit to the CU Heritage Center in Old Main, McLean read a 1993 *Rocky Mountain News* article about her that carried the arresting headline "She was CU's first black female grad: A pioneer buried without a headstone."

The paper quoted Doris and Larry Harris, who had purchased Lucile's Denver home after the state of Colorado forced her into a nursing home. The Harrises noted that they'd bought the home, a mini Queen Anne on Raleigh Street, for \$70,000. They wondered why the estate hadn't yielded enough money for a headstone. (A stone Lucile had purchased for herself long before her death had been destroyed, and it appears the publicly appointed conservator of the estate didn't order a new one.)

The *Rocky* also quoted a CU spokeswoman saying the university would correct its records to reflect Lucile's status as CU's first black woman graduate. But eight years after the story ran, the records were still inaccurate.

By the time McLean was on the case, the Harrises had divorced and moved, taking with them boxes of memorabilia Lucile had left behind. But, in bits and pieces, with tenacity and cajolery, McLean fashioned a compelling portrait.

IF THEY KNOCK YOU DOWN

Lucile Berkeley Buchanan Jones' story is part triumph, part tragedy.

One of her sisters, Laura, committed suicide in 1899 while attempting to become a teacher. The *Rocky* covered the

story under the headline "Color discrimination drove a girl to suicide."

Lucile, too, faced discrimination. She had applied for her first teaching job in 1905 in a company coal town in Huerfano County, Colo. She didn't get the position, despite the work of a newspaper editor who condemned the racial prejudice thwarting her. So, Lucile left Colorado and taught in Little Rock and Hot Springs, Ark.

In 1915 she enrolled at the University of Chicago, studying German, Greek and British poetry. Returning to Colorado, she continued with German at CU. "The black intelligentsia at the end of the 19th and into the early decades of the 20th century viewed Germany as a 'spiritual fatherland,'" McLean writes.

Also, Lucile knew the work of W.E.B. Du Bois, the sociologist, historian and activist who had studied in Berlin and had an affinity for Germany. Du Bois argued that blacks needed a liberal arts education to battle racial inequality.

By spring 1918 — six years after **Charles Durham Campbell** (Math 1912) became CU's first African American graduate — Lucile had earned a CU degree, too. Her mother, two sisters and a niece traveled to campus for commencement, held in Macky Auditorium. There were 168 members in the class. Lucile was the lone African American. But she was never called to the stage to receive her diploma. Administrators instead sent a classmate to slip it to her offstage.

SHE LIVED TO BE 105 YEARS OLD.

Embittered, Lucile vowed never to return to campus, and never did.

After taking a job as a teacher in Kansas City, she married John Dotha Jones in 1926 and took his name. Within a decade he'd abandoned her. She filed for divorce, claiming he'd committed adultery and been cruel and habitually drunk.

Lucile later told friends and family he'd been killed in a duel. In fact, McLean writes, Jones died in 1965, after

living with another man for 22 years in a home they purchased together.

In 1937 Lucile again returned to school, enrolling in graduate studies in English literature at the University of Chicago. She was 53.

She retired from teaching in 1949 and returned to Denver to live in the home built by her father, the former slave who became a teamster and street commissioner.

There she lived until she was 103, when Colorado Adult Protective Services deemed her a danger to herself and forcibly placed her in a nursing home. Lucile was blind and had no family willing or able to help. A

court-appointed conservator sold her home and paid her bills.

Even in old age and confined to the nursing home, Lucile was a dutiful citizen. The *Rocky* interviewed her and other centenarian voters in 1988, when she was 104.

A lifelong Republican, Lucile told the *Rocky* that Franklin D. Roosevelt was the only Democrat she might have supported, because, "Over the years as I look back, there were many good things he did for the people."

As for her loyalty to the GOP, Lucile said: "Lincoln was a Republican. That's all I need to know."

Much of the historical material McLean unearthed came from dogged investigative reporting, which involved poring over musty public records and interviewing people around the country. Key information came from old newspapers, including black newspapers.

It was a newspaper story that helped ensure a headstone now carries her name. In 1993 **Frederick John Walsen** (Jour'39), grandson of the founder of Walsenburg, Colo., read the *Rocky* article that ultimately alerted McLean to Lucile. Walsen, who died in 2000, arranged and paid for Fairmont Cemetery in Denver to add her name to an existing family headstone.

It reads: "Lucile B. Jones, June 13, 1884 — Nov. 10, 1989 — First Black Woman Graduate University of Colorado."

Clint Talbott (Jour'85), a 1998 Pulitzer Prize finalist, joined the CU Boulder staff in 2008.



INFOGRAPHIC CAMPUS BUILDINGS

THE EVOLVING CAMPUS

Since Old Main, CU's first building, went up in 1876, structures have mushroomed around the expanding campus. In the last 20 years alone, CU Boulder has developed 29 buildings and additions totaling nearly 4 million square feet. There's even a building dedicated to a supercomputer. For those of you who haven't been back to campus lately, here's a sampling of the newcomers, plus some old friends for reference. We couldn't fit them all!

STUDENT RECREATION CENTER EXPANSION

Includes remodeled weight and cardio spaces, climbing wall, ice rink, tennis courts and buffalo-shaped outdoor pool.

Square Footage: 83,000
Year: 2014

EATON HUMANITIES ADDITION

Home to classrooms, auditoria and offices. It's connected by a limestone link to the Woodbury Arts and Sciences Building, built in 1890.

Square Footage: 61,438
Year: 1999

CHAMPIONS CENTER

Home to CU's football and athletic administration. Includes athletic facilities, sports medicine clinic, strength training centers, conference and meeting rooms, coaching and administrative offices, dining facilities and the football team's locker room and lounge.

Square Footage: 224,432
Year: 2015

AEROSPACE ENGINEERING SCIENCES

Now under construction on East Campus, this facility will house the aerospace engineering program. Includes indoor space for testing unmanned aerial systems and tracking satellites.

Square Footage: 176,000
Year: Opening fall 2019

JENNIE SMOLY CARUTHERS BIOTECHNOLOGY BUILDING

Faculty, staff and students from the BioFrontiers Institute, the Department of Chemical and Biological Engineering and the Division of Biochemistry occupy this huge building.

Square Footage: 405,957
Year: 2012

SUSTAINABILITY, ENERGY AND ENVIRONMENT COMMUNITY (SEEC)

Acquired and renovated by the university in 2013, this building and an adjacent new lab facility house more than a dozen programs and industry partners.

Square Footage: 289,000
Year: 2013

VISUAL ARTS COMPLEX

Houses the CU Art Museum and the Department of Art and Art History. The complex includes exhibition galleries, studios, community workshop spaces and a 200-seat auditorium.

Square Footage: 179,802
Year: 2009

CENTER FOR ACADEMIC SUCCESS AND ENGAGEMENT

Sitting atop the Euclid Auto-park near the UMC, this new building will house key units of the Office of Admissions and eventually various student and academic services.

Square Footage: 114,000
Year: Opening summer 2018

ROSER ATLAS CENTER

ATLAS is home to research, virtual-reality and audio labs and a hacker space. It also contains a two-story, 2,700-square-foot black box studio.

Square Footage: 70,740
Year: 2006

CENTER FOR COMMUNITY

The building, C4C for short, features key student services and programs, such as career services, international education and counseling and psychological services. It's also home to the campus' largest dining center and its 10 micro-restaurants.

Square Footage: 317,286
Year: 2010

WOLF LAW BUILDING

This LEED Gold-certified building gets 88 percent of its energy from renewable sources. It's home to the three-story William A. Wise Law Library.

Square Footage: 183,609
Year: 2006

WILLIAMS VILLAGE EAST RESIDENCE HALL

Opening fall 2019, the new 770-bed residence hall will be located on the south side of Baseline Road at approximately 35th St.

Square Footage: 178,000
Year: Opening fall 2019



The GOLD Life, Post-Bronze

SNOWBOARDER ARIELLE GOLD WON A MEDAL AT THE OLYMPICS IN FEBRUARY. THIS SUMMER, YOU MIGHT SEE HER AROUND CAMPUS.

By Christie Sounart

IF IT'S SUMMERTIME, **ARIELLE GOLD** (Psych'20) is living like a true Boulderite.

She shares a house on The Hill with fellow students. She picks up shifts at a nearby smoothie shop, Rush Bowls, where she chats with customers and dines on as many peanut butter bowls as she pleases. She spends time with her horse, Sparky, during visits home to Steamboat Springs. And she keeps fit.

This summer she also expects to take classes on campus at CU, a rare treat for the newly minted Olympic medalist.

"I love sitting in a classroom and learning in person," said Gold, 22, a globe-trotting junior who's completed most of her CU Boulder classes (and three years of high school) online, allowing her the

flexibility to study, train and compete on the world stage.

A professional snowboarder since age 13, Gold already has invested nearly a decade of work in her craft. It paid off in February with a bronze medal in the women's halfpipe competition at the 2018 Winter Olympics in Pyeongchang, South Korea. She's the university's first current student to win an Olympic medal, one of 13 other Buff medal winners and among more than 85 Buffs to have competed in the Olympic Games.

With three X Games medals — in 2013, 2016 and 2018 — and a 2013 World Championships gold medal, Gold's bronze in Pyeongchang brought her a new sense of accomplishment. In the

2014 Olympics in Sochi, Russia, she'd dislocated her shoulder in a training run, promptly ending her shot at a medal before she could try for one.

The injury, coupled with extreme emotional pressure, challenged her immensely for the next couple of years. With the help of a sports psychologist and a huge amount of training, she set her sights on the 2018 Olympics.

"For the past year, 90 percent of my thought process was about snowboarding," said Gold, who grew up in Steamboat and lives there part-time in the off-season. "I was visualizing everything and doing everything I could physically and mentally to be ready."

In Pyeongchang, winning a place



Someday, Olympic bronze medalist Arielle Gold aims to become a vet. In the meantime, she has an eye on another Olympic appearance.

on the podium came down to the last of three runs. She'd fallen on the first and earned a low score on the second. In between, Gold called her brother from the mountain to vent and refocus. Taylor Gold, also a professional snowboarder, was watching from Colorado.

I WANTED TO BE A VET BEFORE I WANTED TO BE A SNOWBOARDER.

"I mostly just told her how good her riding was looking, and any small adjustments or ideas I thought could help her put her run down," said Taylor, 24, who competed in the 2014 Olympics in the halfpipe.

During her final run, Gold blasted Eminem's "8 Mile" and threw down an

early 1080, a tough three-rotation trick she'd only landed about a dozen times.

"I tried to think about laying it all out there," she said. "Taylor said I just have to go for it — I didn't want to have any regrets about holding back."

After an excruciatingly long wait — 11 riders followed Gold's final run — she emerged with the bronze. American Chloe Kim took gold and China's Jiayu Liu silver.

"When we knew she had actually won the bronze, my wife and I just collapsed in each other's arms sobbing tears of joy for Arielle," said Gold's father, Ken Gold, who watched from the stands in Pyeongchang. "The fairytale actually came true."

After the competition, an ecstatic Gold stayed in South Korea for about two weeks to watch the rest of the

Olympics. One evening, she took five of the gold-medal-winning U.S. women's hockey players to the slopes for some nighttime snowboarding.

"For some of them it was their first time," said Gold. "I told them they were better than I was my first time."

Soon after returning to the U.S., Gold dislocated her shoulder in her final competition of the season, the early-March Burton U.S. Open in Vail. She took it in stride, tweeting, "Dislocated my shoulder, bruised my sternum and destroyed all the nerves in my left butt cheek, but other than that we cool. #thriving."

Gold plans to return to competition later this year with an eye on another Olympic appearance.

Ultimately, she aspires to become a veterinarian.

"I wanted to be a vet before I wanted to be a snowboarder," she said.

Gold, who rode her first horse at

age 2, is most interested in equestrian medicine, but sees herself taking care of other animals, too, including her dream patient: A white tiger.

"Tigers in general are some of my favorite animals because of how fierce they are," she said. "I used to have a tiger jacket several years ago that I loved, then my dad bought me a newer one this winter that is closer to a white tiger. [It] makes me feel like I'm channeling the energy of a tiger!"

When the time for snowboarding ends, the Colorado Buffalo might even try life as a Ram, should Gold make a match with Colorado State University's renowned veterinary school.

"Arielle has always loved animals, all animals," said her father. "She's been particularly involved in rescuing dogs who are in kill shelters, and she's fostered and found homes for 12 dogs, I believe, so far... I think her experience as an elite athlete, with all that is required to achieve those results, will serve her well in becoming a vet, and in being a great one."

For now, Arielle is taking things one season at a time. Summer 2018 means Rush Bowls on The Hill, a psychology or writing class at CU, and, especially, downtime with her Boulder friends.

Said Gold: "They knew me as a person before they knew me as a snowboarder."

Contact Christie at sounart@colorado.edu.

ARIELLE GOLD FAST FACTS

AGE: 22

HEIGHT: 5'4"

SPORT: Snowboarding (halfpipe)

OLYMPIC MEDAL: Bronze, Pyeongchang, 2018

TOP PUMP-UP SONG: "8 Mile" by Eminem

FAVORITE TRAINING SPOT: Laax, Switzerland

PRE-COMPETITION RITUAL: Eat a full meal and listen to music

PRE-WORKOUT MEAL: Oats with almond milk and almond butter

FAVORITE TRICK: Michalchuk (pronounced "Mi-kal-chuck"), a slow halfpipe backflip

ROLE MODELS: Fellow Olympians Taylor Gold (her brother) and gold medalist Kelly Clark

DIGITAL Frontier

CU BOULDER PIONEERS A MOOC-BASED GRADUATE DEGREE IN ELECTRICAL ENGINEERING.

By Eric Gershon

BOB ERICKSON HAS WON 13 patents, co-founded two companies and earned the title “CU Boulder Inventor of the Year.” Doing new things is old hat for him.

Lately he’s been at it again, leading a large cast of CU engineers and digital learning experts who are developing a new way for students to study engineering from afar — and earn a CU Boulder degree in it.

This fall, CU plans to offer the world’s first MOOC-based graduate degree in electrical engineering, a program that grew out of a massive open online course Erickson developed five years ago.

Anyone with an Internet connection will have the chance to earn a bona fide CU Boulder master’s degree in electrical engineering at their own pace, without setting foot in Colorado and at a far lower cost than studying on campus.

With the program, CU broadens access to graduate-level engineering training and enters the company of other online science education innovators, such as the Georgia Institute of Technology, which drew attention in 2014 with a fully online, low-cost master’s in computer science.

“Expanding access to the technological world and increasing our global engagement is what our college is all about,” said College of Engineering & Applied Science Dean Bobby Braun, who came to CU from Georgia Tech in 2016.

Students will pay about \$20,000, or about half the cost of CU’s campus-based equivalent.

CU leaders believe the new online degree will attract motivated learners unlikely to enroll at any American campus — full-time professionals and foreign residents unable to move to the U.S.

“It is finding a new market,” said Erickson, who recruited fellow CU electrical engineering professors to develop the curriculum with the campus’ Office of Strategic Initiatives.

CU has offered various forms of distance learning for decades, including less-flexible online engineering degree programs. The

new degree represents a major evolution that takes advantage of MOOCs, a class of online course characterized by low-cost, frequent (sometimes continuous) enrollment opportunities, virtually unlimited class sizes and extreme flexibility for students to watch video instruction and complete assignments, all untethered to the traditional semester schedule.

CU Boulder now offers nearly 45 MOOCs, mostly in engineering and including “Introduction to Power Electronics,” an updated version of Erickson’s debut 2014 MOOC, plus hundreds of other online courses. The university offers about half a dozen online degrees, though none entirely organized around MOOCs.

The new program represents a step forward for both CU and for engineering education generally.

There’s no admissions application, and there are no prerequisites — not even a bachelor’s degree, though the curriculum assumes competence in advanced mathematics. Students will be able to enroll online anytime through the online MOOC platform. Coursework is largely machine-graded.

Students pay as they go, making progress toward the degree with each successfully completed course. They also can earn credentials short of a degree, such as certificates. Much of the course content will be available for free, without the option of a credential.

A growing number of traditional nonprofit universities are offering credit-bearing online courses and degrees at various costs and with varying degrees of flexibility.

CU Boulder hasn’t announced additional MOOC-based degrees yet. But don’t be surprised if it does.

“In every discipline on campus,” Provost Russell Moore said in February, “our faculty are looking at new ways to teach and conduct research.”

Contact Eric Gershon at editor@colorado.edu.



DREAMERS Among Us

ABOUT 100 CU BOULDER STUDENTS ARE UNDOCUMENTED IMMIGRANTS WITH FEDERAL DACA STATUS. THEY'RE DOING AMAZING THINGS. BUT PLANNING FOR THE FUTURE ISN'T EASY.

By Eric Gershon

ALAN SANCHEZ THINKS FAR ahead in time and far away in space.

With one course to go for a joint bachelor's-master's degree in aerospace engineering, the CU Boulder student has set his sights on a career in spacecraft propulsion. Long-term, he's ready to ride all the way to Mars to help develop a viable human habitat there.

Here on Earth, he's been doing all the right things to cultivate the hard and soft skills that will come in handy as a member of high-stakes technical teams.

Besides immersing himself in physics, fluid dynamics and philosophy, he's worked a series of paid jobs while attending school full-time, including roles with the CU-based National Snow and Ice Data Center and the engineering college's Precision Laser Diagnostics Lab. He's been a resident adviser in Libby Hall, a private tutor and a child-care provider at a Boulder school where immigrant parents learn to speak and read English.

Sanchez (AeroEngr'17; MS'18) has an internship with Tesla now. On the side, he's a competitive breakdancer.

But more than time and space stand between him and his ambitions.

"I'm not a U.S. citizen or a permanent resident," he said.

Sanchez, 23, is one of an estimated 1-4 million people in the United States born in a foreign country, brought to the U.S. as children and raised here without legal immigration status, often referred to as "Dreamers." He came to Colorado from Mexico at 8 months old and grew up in Denver, the youngest of three children of undocumented immigrant parents. His father operates an HVAC repair business, his mother runs a liquor store.

At CU Boulder, Sanchez is one of about 100 undocumented students with temporary relief from deportation under the federal Deferred Action for Childhood Arrivals policy, or DACA, established in 2012. It also offers a Social Security number and permission to work.

Without work, most DACA students couldn't afford to attend CU, given family circumstances and their ineligibility for federal financial aid. Even with multiple jobs and in-state tuition, many can barely afford it.

"I always had at least one job," Sanchez said. "There were periods when I had three."

DACA helps, but hardly resolves the predicament of students like Sanchez and **Shiyan Zhang** (Acct, Fin'18), who met through the Inspired Dreamers, a campus advocacy group founded by DACA students. DACA doesn't make them citizens or provide a pathway to legal status, and it's valid for two-year stretches only,

I HAVE LIVED MOST OF MY LIFE IN A STATE OF LIMBO.

leaving them perpetually in limbo.

"You cannot plan for the future," said Zhang, a Grand Junction (Colo.) High School graduate whose parents brought her to the U.S. from China via Botswana when she was 5 years old. "So you learn to live in the moment."

That doesn't make the moment comfortable: In September, the Justice Department said it would end DACA.

Federal courts have temporarily blocked the plan, allowing individuals

with existing DACA protections to renew. The government stopped taking first-time applications, but a separate court ruling in April could force it to resume.

Were DACA to go away, CU students like Sanchez and Zhang could be subject to arrest and deportation to countries that are as foreign to them as Colorado is familiar.

Besides the personal cost to students and their families, the U.S. would lose the benefit of the skills they acquired here, said Violeta Raquel Chapin, a clinical professor at Colorado Law School who co-advises the Inspired Dreamers with David Aragon, assistant vice chancellor for diversity, learning and student success.

"And I think we lose any kind of moral authority to say that we try to do things that are right and decent," Chapin said.

For Sanchez, his immigration status has complicated the pursuit of internships in his chosen field, even with firms eager to have him: In many cases, federal rules forbid aerospace and defense contractors from employing foreign nationals.

CU Boulder, like many universities, has publicly declared its support for DACA and taken steps to help DACA students navigate the extreme uncertainty of life amid shifting federal immigration policies.

Chancellor Philip P. DiStefano joined more than 700 university leaders who signed an open letter drafted by Pomona College declaring that "DACA should be upheld, continued and expanded," calling the policy "a moral imperative and a national necessity."

CU has started a relief fund to help students meet emergency expenses, including \$495 DACA renewal application fees, and expanded financial aid for tuition. Chapin

said she and her CU law students have helped at least 50 students fill out and file renewal applications.

She also lends her ear to students wrestling with fear and frustration as they try to set a course for their lives amid national discord over immigration policy. She's invited all of them to her home for a barbecue in June.

"It's a little bit of a social worker aspect, which I've always embraced as a defense lawyer," said Chapin, a former



"I always had at least one job," said Alan Sanchez. "There were periods when I had three."

Washington, D.C., public defender. "You meet with people in the most challenging moments in their lives. You listen to them, hear feelings, anxieties and emotions. I try to do that as often as I can."

Sanchez isn't the sort to dwell on negative thoughts. He's an engineer, and engineers are pragmatic. He's got problems to solve and an opportunity at Tesla to seize, an opportunity that could spawn others.

There's meanwhile the business of living and making plans amid profound uncertainty. Sanchez wants financial security, so he's been looking into Roth IRAs. He's working to set up a scholarship for first-year CU Boulder students who can't afford to live on campus, as he once couldn't. He tries to make time to dance.

Sanchez worries less about himself and his siblings, he said, than about his undocumented parents, who are ineligible for DACA.

"There's nothing to protect them," he said.

It weighs on him.

The needs of Shiyan Zhang's younger siblings in Grand Junction add urgency to her own search for stability. Their parents have divorced. From Boulder, Zhang helps look after the kids, taking responsibility even for registering them for school, she said.

Zhang must look out for herself, too, of course. She wants to move up in the world, and has been offered a summer internship with a Denver firm she'd like to join full-time. But she doesn't know if she'll be able to take it, given her immigration status.

"You feel so helpless," she said.

One thing Sanchez and Zhang can do is share their stories, two among millions.

Twice in recent months Sanchez has addressed CU Boulder alumni audiences, once in Los Angeles, once in Washington, D.C.

"I have lived most of my life in a state of limbo, not knowing exactly where I stand and who around me would like to see me fall," he said at the CU Boulder Next conference in Los Angeles. "It means the world to me that CU Boulder is openly supportive of DACA students, and I can't thank them enough for that."

Afterward, an alumnus approached him and offered a ring as a token of solidarity.

"When you graduate, give this ring to the next DACA student you think should have [it]," Sanchez said the man told him.

Soon Alan Sanchez will have two degrees from a leading American aerospace engineering program. He'd like to put them to work for America.

Contact Eric at editor@colorado.edu.

A photograph of two test pilots, Tucker Hamilton and Aaron Frey, kneeling on a tarmac in front of an F-35 fighter jet. They are both wearing olive green flight suits with various equipment and oxygen masks. The jet behind them is grey with the number '18' on the nose and '49-715' on the side. The background shows a large hangar with a grid of windows.

From Free- Throws to **F-35s**

TUCKER HAMILTON AND AARON FREY ARE TEST PILOTS FOR THE U.S. MILITARY'S MOST SOPHISTICATED FIGHTER JETS EVER. THEIR JOURNEY TOGETHER STARTED IN MIDDLE SCHOOL.

By **Christie Sounart**

TWO F-35 FIGHTER JETS zoom over the Pacific Ocean. The pilots, charged with completing a live missile test, are focused, confident and prepared. Even in a test mission, lives depend on it.

They're not alone. A fleet of aircraft, boats and about 100 control room communicators follow their every move on this summer day.

A pair of missiles fires from one jet, striking their targets: Airborne drones. The other F-35, armed with its own missiles, holds fire amid the explosion.



The moment — painstakingly calculated and rehearsed — simulates the highly complex air-to-air scenario F-35 pilots could encounter in real combat. All total, the day's mission costs \$1 million.

Air Force Lt. Col. **Tucker “Cinco” Hamilton** (AeroEngr’02) and Marine Maj. **Aaron “Amber” Frey** (AeroEngr’02; MS’03), were the pilots that day, in August 2017. They first met at Evergreen Middle School in Evergreen, Colo. Later, they reacquainted as fellow aerospace engineering majors at CU Boulder, and again — nearly 25 years later — as two of the U.S. military’s ace test pilots.

The F-35 jets, based at California’s Edwards Air Force Base, are considered

the most sophisticated military fighter jets in history, and the Defense Department’s largest ever acquisition program, at more than \$1 trillion. Hamilton and Frey are among some 20 total test pilots for the F-35, also known as the Joint Strike Fighter. For their August missile test last year with the 461st Flight Test Squadron, they were two of just 13 pilots who could have flown the mission.

Hamilton uses one word for their repeated encounters in life: “Serendipity.”

“Being able to develop the most

advanced aircraft to ever take to the skies, with one of my buddies from middle school, was a complete kick,” he said.

As 13-year-olds, Hamilton and Frey attended the same birthday parties and played on the same basketball team. Hamilton was a forward. Frey played guard.

“As I recall, he was a little taller than I was,” Frey joked.

The boys from Evergreen lost touch after enrolling at different high schools, then reconnected in Air Force ROTC and aerospace engineering classes during their first semester at CU in 1998.

In 2002, they again went separate ways and lost contact: Frey stayed at

CU for a master’s degree in aerospace engineering; the Air Force commissioned Hamilton the day of graduation.

Hamilton, then a lieutenant, moved to Florida, completed pilot training with the Navy and, later, the Air Force, and became a combat-ready F-15 fighter pilot. After a stint in Germany, he spent time in Afghanistan with the MC-12 intelligence, surveillance and reconnaissance aircraft unit. His interest in engineering, technology and flying drew him to apply for test pilot school. In 2011 he was

among 10 pilots selected to train at Edwards to become a F-35 test pilot.

“I wanted to develop leading-edge technology and get it into the hands of our warfighters,” he said.

Meanwhile, after briefly working on satellites in the private sector, Frey joined the military, in 2004.

“I always was interested in flying airplanes and the military,” he said. “When I was working as an engineer, I realized, ‘If I want to do this, I need to do this now.’”

He joined the Marines, became an officer and deployed to Afghanistan twice, flying combat missions and serving as an instructor pilot. While in Afghanistan in 2012, he too was accepted into the Edwards test pilot school.

When Frey arrived in California for training,

Hamilton had just finished the program. The two passed each other in a hallway.

“Fast-forward to 2012, 10 years nearly to the day [from CU graduation],” said Hamilton, now married with four children. “And I’m walking through the U.S. test pilot school about to graduate, and Aaron Frey walks by in his Marine flight suit.

“I said, ‘Dude what are you doing here?!’”

The two briefly caught up. They’d both known danger.

In early 2008, for instance, Hamilton was involved in a 500-mph, mid-air collision with another jet during a F-15 flight over the Gulf of Mexico. Flames

engulfed his plane, and he ejected into the ocean. The other jet’s pilot died instantly. Hamilton floated in the ocean, alone for hours, until a 25-foot fishing boat rescued him.

But Hamilton remained a pilot, and became an advocate for new safety measures. He was the first pilot to test the Automatic Ground Collision Avoidance System on fighter jets — technology that corrects an airborne plane in an emergency. It has since been installed on several aircraft and saved eight lives so far.

“I know the experience made him a better pilot,” said Frey, who’s encountered frightening situations of his own. “Managing risk is part of the job.”

In 2016, four years after their hallway meeting, Hamilton became director of operations for the 461st Flight Test Squadron, which tests all three variants of the F-35 fighter jets: The F-35 A, for conventional takeoffs and landings; B, for short takeoffs; and C, for landing on aircraft carriers. Frey’s name was listed as a test pilot with the squadron.

“I didn’t realize Cinco was in my squadron,” said Frey. “I walk in and, again, there he is!”

The F-35s — made by Lockheed Martin — are top of the line, with technologies, weapons, sensors and equipment never used before.

Endless scenarios for each variation need testing by the squadron. Hamilton and Frey have tested all aspects of each variant of the single-seat planes.

“I will go take the jet to over 800 mph at 2,000 feet, pulling 9 gs making sure the system is safe and works,” said Hamilton. “It’s our job to take it to the extreme.”

Today, Hamilton remains commander of F-35 developmental test efforts at Edwards, leading nearly 1,000 people. In October, Frey, a married father of twins, was promoted to operations officer of the Marine Operational Test & Evaluation Squadron 1 at the base. He tests the F-35s in extreme military scenarios, such as landing an F-35B in frigid temperatures in Alaska.

“Our wives know each other, our kids play together,” said Frey. “Once you’re squadron mates, you really stay in touch for the rest of your life.”

Contact *Christie* at sounart@colorado.edu.



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Alumni

News SUMMER 2018

Reviving the Rivalry

IN SEPTEMBER, THE BUFFS AND THE CORNHUSKERS LOCK HORNS FOR THE FIRST TIME SINCE 2010

WHEN BILL McCARTNEY was hired as CU's football coach in 1982, the Buffs had lost 18 in a row to the Nebraska Cornhuskers.

Four years later, CU beat Nebraska 20-10 at Folsom Field. The crowd tore down the goal posts.

"I remember they kept the scoreboard lit up for a week," **James Brodie** (Eng'83) wrote on Facebook in response to a call for memories of the fall classic.

The Buffs' win injected new life into the annual matchup, which continued until CU left the Big 12 conference for the Pac-12 in 2010.

On Saturday, Sept. 8, the Buffs travel to Lincoln to resume the old contest at Memorial Stadium. CU will host Nebraska in 2019.

Based on the avalanche of responses to the CU Boulder Alumni Association's April Facebook post — more than 1,300 in all, from alumni and friends alike — Buffs Nation is primed and ready.

Hundreds of stories emerged about missed Thanksgiving dinners, snowball fights between fans, **Eric Bienemy's** (Soc'01) four fourth-quarter touchdowns and the typically freezing weather.

Here are snippets from some of our favorite anecdotes, as shared on Facebook. Read dozens more at colorado.edu/coloradan. Search "Nebraska" and "tradition."

Register for our Buffs Bash tailgate before the big game at colorado.edu/alumni/football/buffsbash.

"62-36. My first live football game and went with my new girlfriend. Been married to that beautiful lady for almost 13 years now!"

Charles Jacobs

"In the early '80s our car wouldn't start while we were parked at a small shopping center. We were worried about getting to the game and along came a carload of Nebraska Huskers who fixed our car for us — fun day!"

Sherry Holt-Burgos (MEdu'82)

"The only way I could get a ticket for the Saturday night nationally televised game in the late '80s was to work security for the game. It was a very cold night. As the game was winding down I made my way to the sidelines. The game was tied and I was on the Nebraska sideline. Nebraska had the ball in CU territory and set up for a game-winning field goal. As time expired Nebraska's kick was blocked and the ball rolled my way. Once out of bounds, I picked it up and ran out on the field holding it high."

David Ward

"Sitting in the hospital holding my newborn daughter while watching CU throttle the Corn 62-36!"

Daryl Eggers Jr.



SOUTH PARK ANIMATOR JOINS CU BOULDER NEXT

When *South Park* joined Comedy Central's lineup more than 20 years ago, **Eric Stough** (Film'95) was the first person hired by creators **Trey Parker** (A&S ex'93) and **Matt Stone** (Art, Math'93).

He's never looked back.

Now producer and lead animator for the taboo-shattering animated satire, Stough has won five Emmys and a Peabody Award for his work — and stands as the inspiration for the beloved character "Butters."

In April, at the second installment of CU Boulder Next — the university's large-scale, multiyear road show — Stough regaled the Washington, D.C., audience with tales of his days at CU (where Parker encouraged him to join the film department) through the present day, in which *South Park*-themed mobile and console games are part of American culture.

"All facets of my life echo the foundation given to me by CU," he said during the conference's closing remarks.

For videos of CU Boulder Next in Los Angeles and D.C. and information about next year's San Francisco and Denver events, visit colorado.edu/next.



ALUMNI ASSOCIATION TIDBITS

Northern Nevada now has an alumni chapter led by **Tiffany Smith** (Acct'92). ... The Grand Valley chapter in western Colorado, led by **Matt**

Jennings (Hist'05; MPubAd'14) and **Katie Larson** (Comm, Psych'05), hosts monthly mixers every third Friday of the month at the Ale House on 12th St in Grand Junction.



Plan a trip to Boulder Oct. 25-28 for Homecoming Weekend 2018. Attend the Alumni Awards Ceremony, Buff Talks, reunions, the Buffs on Tap craft beer and wine event, the Parade and Pep Rally on Pearl Street and Ralphie's Corral tailgate. CU football plays Oregon State Oct. 27 at Folsom Field. Register at colorado.edu/homecoming and receive a free Homecoming T-shirt while you're here.



The CU Boulder Alumni Association received 1,399 scholarship applications this year, including 385 from legacy applicants. It awarded 96 scholarships, including 41 to legacy students, worth more than \$170,000.



The Alumni Association is hosting its first golf outing Monday, July 30, at the Boulder Country Club. Proceeds benefit student scholarships. To join as a sponsor, contact Tricia at tricia.essenpreis@colorado.edu. Visit colorado.edu/alumni/golf2018 to register to play.

Photo courtesy CU Athletics

2019 TRIPS



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GRAD BASH

On May 3, nearly 3,000 graduating seniors celebrated the end of the spring semester during Grad Bash, an annual farewell celebration hosted by the CU Boulder Alumni Association at Koenig Alumni Center.

Some students were soon heading for faraway

places, such as the Virgin Islands or London. Some were staying in Boulder. All stood on the threshold of something new.

At the event's Career Services booth, students wrote their future employers on whiteboards and posed for photos. Companies with incoming Buffs include Lockheed

Martin, Charles Schwab and Comcast NBC Universal. Other students were heading directly into graduate programs at Cornell, Columbia, Stanford and, of course, CU Boulder. The Game of Life-themed party included free food, drinks, prizes and the opportunity to sign a gigantic "Class of 2018" banner that would

hang under the Forever Buffs archway at Commencement.

A week later, on May 10, the university awarded more than 8,000 degrees to graduates of the fall 2017 and spring and summer 2018 classes. Oregon Gov. **Kate Brown** (EnvCon'81) delivered the main address.

IN BRIEF:

- ▶ A week before Commencement 2018, nearly 3,000 seniors attended Grad Bash, the Alumni Association's annual backyard send-off party.
- ▶ A rainy morning gave way to sunshine for the entire event for CU Boulder's newest Forever Buffs.



WHAT'S NEXT?

We've been hearing about a program called CU Boulder Next. What is it?

We are connecting with alumni, donors, parents and prospective students in cities across the United States in an ambitious program that explores the questions “What will CU Boulder look like 5, 10 or 20 years from now? What will our students, research and discoveries look like?”

How are you answering those questions?

Through TED-style talks and breakout sessions. We are joined by some of the university's most innovative and creative faculty and students to showcase the people, research and advancements propelling us as we develop tomorrow's leaders, become a leading innovation university and impact humanity in unprecedented ways.

What can people expect to learn?

Faculty are demonstrating how engineering can solve modern medical challenges, the future health and human safety benefits of satellite imaging and how art helps explain the world around us — to name just a few. This spirit of innovation clearly filters to our students, and we hear from them on how they are already impacting humanity! It's inspiring.

What will your future students look like?

They are showing us they want to be

adaptable and flexible, prepared as 360-degree employees, citizens and leaders. They want to spread their wings and see how far they can fly. That's why we have minors and certificates in business, leadership, entrepreneurship, technology, arts and media, and even a space minor open to all students. But what will be the expectations of the next generation of students? At CU Boulder Next we explore the future of learning and teaching.

Where can I go to see CU Boulder Next?

It's an eight-city, six-state tour through 2021, with stops in San Francisco, Houston, New York, Chicago and of course, Denver and Boulder. You can find the full schedule at colorado.edu/next. This year we've been to Los Angeles and Washington, D.C. These are all places where we have a lot of alumni, supporters and current and prospective students and parents.

What has been the response to CU Boulder Next?

The programs have been very well attended, and our audiences have been enthusiastic about what's next for CU Boulder. They have been fascinated by the work and discoveries of our students and faculty. For me, I get to talk with alumni and friends old and new, and I look forward to seeing more in the coming months.



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News SUMMER 2018

By Jennifer Osieczanek

Lacrosse Lays Claim to a Title

WINS PAC-12 REGULAR SEASON TITLE, FALLS TO STANFORD IN CONFERENCE CHAMPIONSHIP GAME — BUT STILL MAKES NCAA TOURNAMENT

IT'S FUN TO BE FIRST.

In 2011, the CU men's and women's cross-country teams both won at the inaugural Pac-12 championship meet.

In 2012, Tad Boyle's basketball squad won four games in four nights to claim the first Pac-12 men's conference title.

In 2018, CU women's lacrosse became the first-ever regular season Pac-12 champs after finishing 9-1 in the conference and 12-4 overall. CU's lone conference loss was in overtime at USC.

Unfortunately, Buffs lacrosse fell short of yet another first: Seeded No. 1 in the conference tournament, held in late April in Boulder, the team ran into a No. 2-seed Stanford squad bent on redemption. The Cardinal, which had lost two regular-season games to the Buffs, steam-rolled CU 15-6.

"We got frustrated, we did dumb things and we weren't tough enough to battle back against a team that's very tough," CU coach Ann Elliott said after the loss.

The tournament started in promising fashion. CU had earned a first-round bye, then cruised past Oregon 16-6 in the second round.

But Stanford came out hot in the title match at Prentup Field, on April 29. Leading 7-2 at halftime, the Cardinal padded its lead with three goals in 34 seconds and four total in the first 2:35 of the second half.

The loss meant the Buffs, then ranked 14 in the nation, had to rely on an at-large bid to reach the NCAA Tournament. They got it, and advanced to the round of 16 — the only Pac-12 team to do so — before falling to Florida 13-9.



Photo courtesy CU Athletics



FALCONS DRAFT OLIVER

One Buff heard his name called during April's NFL Draft, and as many as nine others will get a chance to earn roster spots this summer.

Isaiah Oliver (StComm ex'19) became the fourth CU defensive back drafted in the past two years when the Atlanta Falcons picked him in the second round (58th overall). He's leaving CU a year early but believes he's ready to face the NFL's big-time receivers.

"Being a bigger corner, this what I pride myself on, going into those games and being able to stop them," Oliver, who also was a two-time All-Pac-12 athlete in the decathlon, told the *Atlanta Journal-Constitution*.

Oliver was the only Buff drafted, but he's not the only one moving on to pro football.

Running back **Phillip Lindsay** (Comm'18) will get a shot with his hometown team after signing a free agent deal with the Denver Broncos. CU's all-time all-purpose yards leader tweeted, "I want to thank the @Broncos and @Johnelway for believing in me and seeing what I can bring to the program. I look forward to repping my home state. #303 #DenverMade #NFL."

CU receivers **Devin Ross** (Soc'17) and **Shay Fields** (Soc'18) signed with the Titans and Redskins, respectively. Offensive lineman **Jeremy Irwin** (Comm'17) is headed to the Saints. Safety **Afolabi Laguda** (Econ'17) will try to catch on with the Rams. Four additional Buffs were invited to participate in NFL rookie mini-camps.

BUFFS BITS Bob Beattie, who coached CU's first national championship ski team, died April 1 at 85. Beattie coached the Buffs for nine years and led CU to back-to-back NCAA championships in 1959 and 1960. He also was the head coach of the U.S. Olympic Alpine Ski Team when **Billy Kidd** (Econ'69) and **Jimmie Heuga** (PolSci'73) won silver and bronze medals, respectively, at the 1964 Innsbruck, Austria, games. ... Senior **John Souza** (Econ'18) was named the Pac-12 Men's Golf Scholar-Athlete of the year. At the time of the announcement, the economics major had a 3.32 GPA. ... Men's golf finished second to USC in the Pac-12 Tournament in April. The Buffs' previous best finish in the tournament was fourth, in 2014. ... In April, women's tennis beat Utah for the first time since joining the Pac-12.

Photo courtesy CU Athletics

STATS

2

Years in a row a Buff has been RMISA's Male Alpine Athlete of the Year. In 2018: Skier **Ola Johansen** (Fin'19).

FIVE

Times this season lacrosse player **Darby Kiernan** (IntAf'18) was named Pac-12 Player of the Week. In one game she set a CU record with 10 points.

9:16.78

New American record time in the 2-mile race, set in April by **Jenny Simpson** (Econ, PolSci'09).

ELEVEN

Buffs who earned All-America honors at the 2018 NCAA Skiing Championships.

30th

Date in April **Jenny Roulier Huth** (Comm'03) was named women's basketball coach at University of Northern Colorado.



HALL OF FAMER

Ceal Barry coached women's basketball at CU Boulder for 22 seasons, winning more games — 427 — than any other CU head coach in any sport. Now a CU Athletics administrator, she'll be inducted into the Women's Basketball Hall of Fame this summer. Here Barry talks about blazing trails, her greatest achievements with the Buffs and the singer who made her love her given name.

When did you start playing basketball?

I played outdoors on the driveway with my brothers and all the boys on the street. I was really conflicted inside. This was in the '60s. I was 13 or 14. None of the girls did that, but I really wanted to play. I loved it. But I was kind of like, 'I'm probably not supposed to be here.' That was a weird time for girls in sports.

Why do you think it's important for girls to play sports?

I think for their physical and mental health. Statistics show the incidence of heart disease, stroke and obesity in our country is severely on the rise. ... One of the best antidotes for depression is aer-

obic exercise. Distance running, biking, getting outdoors, vitamin D, all that. It's just good for the soul.

I assume that means you're active and out there doing things. What does your workout schedule look like?

It's real basic. I walk. I do hot yoga. I bike. I wish I could say I lifted weights more, but I do lift weights some and occasionally play pickle ball. In the summer I play golf. I'm usually outside every day.

You were a part of the first class of women's basketball players at Kentucky to receive an athletic scholarship. What does that mean to you?

I never really thought about it, being the first class of players getting scholarships. Now, wow. It's a real piece of history at that school, especially a school that really celebrates its male athletes with men's basketball. To kind of break into that culture and their world. You know, it's civil rights. To be a part of the civil rights that women would get equitable treatment in the athletics department. I experienced not being allowed in the athletics department to the transition of 'OK, we're gonna let them in, but we don't want 'em.'

What will it take to make women's sports as popular as men's?

I watched Title IX being implemented. The reason women's sports do not sell is because the mainstream media don't cover them. There's got to be numerous stories, not just one story. And I don't think sponsors pay for advertisement. Advertisement pays for television exposure. [The men's basketball NCAA Tournament deal] is \$8 billion over eight years. Women don't even have a contract. ESPN has a contract with the NCAA, but it is to televise all (women's) sports. Softball, golf, basketball. Why? Because nobody's paying money. Why? Because nobody knows anything about the coaches, the athletes, the history, the competition. When it's on, they're interested. They'll go, 'Wow, that was a good game,' but there's not enough awareness.

What does it mean to you to be inducted into the Women's Basketball Hall of Fame?

Once again, it's the history of it. This Hall of Fame is with my peers. These are people I grew up with, people I sat in the bleachers with, people I competed against for recruits, to win a championship. It's flattering. It's humbling.

What is your greatest achievement at CU?

I would probably say the coaching period. It's hard to be a coach, and I chose to stay here 35 years. I wanted to choose a place that I loved and commit to it. I think the championships and the attendance, the people that we attracted to the games — and the community really enjoyed watching our teams, how they played, how they conducted themselves. Those things were probably my greatest achievement.

What was the last book you read or TV show that you've binged?

The Americans. And book: I read *Unwanted Advances* by Laura Kipnis.

Favorite musician/artist to listen to?

You're going to laugh. I love Journey. I'm a big Journey fan. I've always liked Journey. I like KD Lang. And, of course, Adele. My first name is Adele. And I hated that name until Adele became popular and then I was like, 'I've got the greatest first name.' And my mother's first name is Adele.

Condensed and edited by Jennifer Osieczanek.

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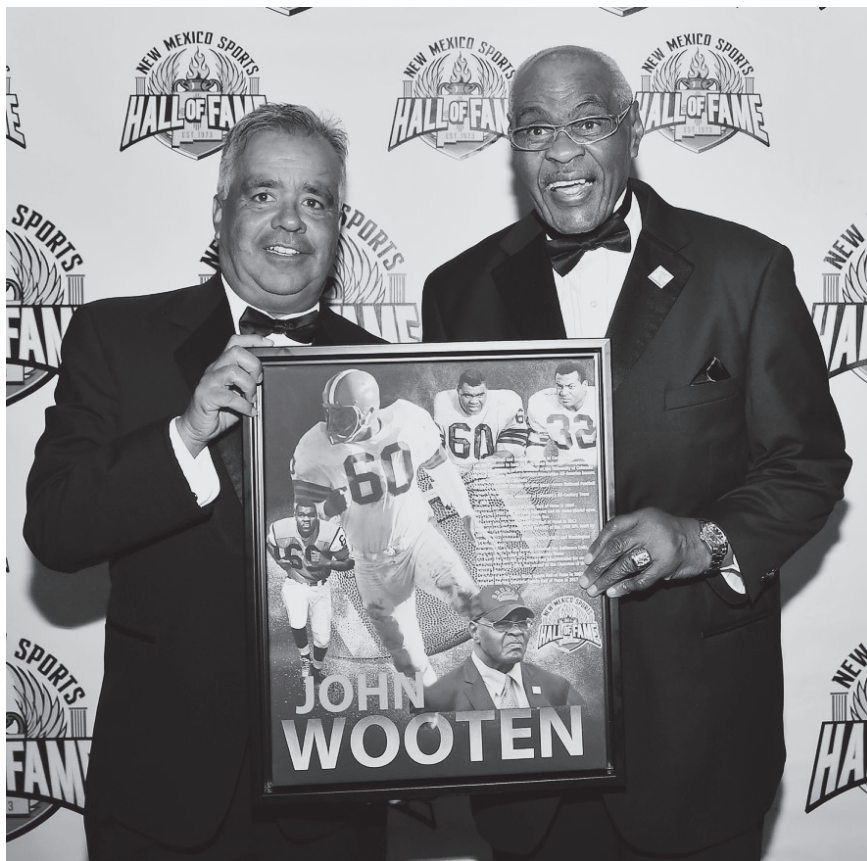
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Notes CLASS

40s, 50s, 60s & 70s SUMMER 2018



In April, the New Mexico Sports Hall of Fame inducted former NFL player **John Wooten** (PE'59) (right) into its Hall of Honor. John was the first African American to play football at New Mexico's Carlsbad High School. Here, he stands with **Doug Dorame** (PE'81), athletic director at Albuquerque High School.

'42 Martin Trotsky (Acct) turned 100 on April 3. His family planned a dancing-filled birthday celebration in May. He lives in Denver with his wife, **Gloria** (MusEd'43).

'54 It seems nothing can slow down **David Hall's**

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NOTES ONLINE AT
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(A&S) golf game. David was featured in *The Albuquerque Journal* for using only a single zero-iron club to shoot below his age, an 84, at the Puerto del Sol Golf Course, despite a long list of ailments. He has a tournament named after him, the annual Dave Hall 3-club Tournament, which takes place every December.

'56 Oscar and Grammy-

winning composer, producer and jazz pianist **Dave Grusin** (Mus) is the subject of a forthcoming feature-length documentary, *Dave Grusin: Not Enough Time*. Dave has received eight Oscar nominations, 10 Grammys and another 28 nominations. The film, which is expected to be released later this year, will chronicle his career as a music director, composer,

arranger, producer and pianist.

'57 **Thomas J. O'Brien** (Bus) and **Sharon O'Brien** (Jour'58) celebrated their 60th wedding anniversary on March 29. They met at CU Boulder, married in California and have five sons. "How 'bout them apples!?" said Thomas. The couple lives in Fontana, Wisc., on Lake Geneva, southwest of Milwaukee.

'59 On March 8, **Peter C. Dietze** (A&S; Law'62) received the William Lee Knous Award, Colorado Law's highest alumni honor. Peter grew up in East Germany and came to the U.S. in 1955. He started his journey in Nebraska, then made his way to CU. He was city attorney in Boulder from 1965 to 1972 and served three terms (1977-1996) on CU's Board of Regents, including two terms as chair. Peter resides in Eugene, Ore.

'62 **Frank Montera** (Math) was inducted into the California Football Coaches Hall of Fame in March. He completed his 54th consecutive year of coaching in 2017. Frank was a member of CU's football team in 1959, 1960 and 1961 and a member of CU's baseball team in 1960, 1961 and 1962. He and wife **Kendel** (Engl'64) reside in La Palma, Calif.

NATHAN COATS (ECON'71; LAW'77) WAS NAMED CHIEF JUSTICE OF THE COLORADO SUPREME COURT, EFFECTIVE JUNE 30.

'66 **Bonnie F. McCune** (Psych) published her fifth book, *Never Retreat*, a novel that tells the story of a single mom who clashes with an ex-military corporate star at a business retreat in the Colorado mountains. Bonnie lives in Denver with her husband.

'68 At 82 years old, **Bruce Bartleson** (PhDGeol) is still chasing "wild" ice. Bruce was featured on Colorado Public Radio in January for his adventures as a "hardcore ice skater" trekking into the wilderness to find untouched ice in some of the coldest parts of Colorado. He is an emeritus

professor of geology at Western State Colorado University in Gunnison, where he taught for 33 years. (See page 58.)

'69 **Tom Baur** (MAstroPhys) received the 2018 Society for Optical Engineering (SPIE) G.G. Stokes Award for his "lifetime of leadership in polarization optical components." Prior to founding Meadowlark Optics in 1979, Tom was a scientist for 13 years at the National Center for Atmospheric Research in Boulder.

Gary E. Smith (Edu; MPubAd'71) and **Diane Yokel Smith** (MEdu'86) didn't slow down after retirement. Gary published his second mystery novel, *Two*

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Write Christie Sounart, Koenig Alumni Center, Boulder, CO 80309, or classnotes@colorado.edu

OSCAR AND GRAMMY-WINNING MUSICIAN **DAVE GRUSIN** (MUSIC'56) IS THE SUBJECT OF THE FORTHCOMING FEATURE-LENGTH DOCUMENTARY *DAVE GRUSIN: NOT ENOUGH TIME*. DAVE WON AN OSCAR IN 1988 FOR *THE MILAGRO BEANFIELD WAR'S* SCORE. HE'S WON 10 GRAMMYS.

Miles High and Six Feet Under, written under the pen name G. Eldon Smith. Diane, after a career of teaching ESL at the university level, became a volunteer tutor in Littleton Public Schools. She also serves as Gary's chief editor and first reader. The couple reside in Centennial, Colo.

'70 On Dec. 6, 2017, **Mary-Lynne Pierce Bernald** (PolSci) was elected mayor of Saratoga, Calif. Previously, she served on the Saratoga City Council and as a planning commissioner for the city.

'71 **Nathan Coats** (Econ; Law'77) was named Chief Justice of the Colorado Supreme Court, effective June 30. He was appointed to the court in 2000, and had been chief appellate deputy district attorney for the Second Judicial District (Denver

County) from 1986 to 2000. He will be the 46th member of the court to be named chief justice since Colorado became a state in 1876.

'74 **Kenneth R. Miller** (PhDBio) was elected president of the board of the National Center for Science Education. He is a professor of cellular biology at Brown University and has published a new book, *The Human Instinct: How We Evolved to Have Reason, Consciousness and Free Will*. In November 2017, he delivered the keynote address for the Colorado Science Teachers Association's annual meeting in Denver. He will be back in Colorado in September 2018 to celebrate the 50th anniversary of CU Boulder's Department of Molecular, Cellular and Developmental Biology. He will give a public

lecture on the state of American science.

'75 **John B. Elstrott** (PhDEcon) is board chairman for MicroBiome Therapeutics, a company focused on the microbiome and how it impacts human health. John, a former chairman of Whole Foods Market, recently retired from Tulane University's A.B. Freeman School of Business after 30 years as a professor. He served as the first chief financial officer for Celestial Seasonings, the Boulder-based tea company.

'79 In May, **Brian Cowan** (Mktg), president and CEO of Cowan & Associates, a management consulting firm in Arlington, Va., rolled off of the CU Boulder Alumni Association's board of advisors after eight years of service, including two as chair.

PROFILE BRUCE BARTLESON



Bruce Bartleson, 83, here with wife Deirdre, seeks out untouched ice for "wild" ice skating.

CHASING ICE

BRUCE BARTLESON (PHDGEOL'68) is pretty comfortable on thin ice.

As soon as temperatures drop below freezing, the 83-year-old resident of Gunnison, Colo., resumes his winter tradition of "wild" ice skating. Much like backcountry skiers, Bruce treks to some of the coldest places in the state, in his case in search of untouched ice on lakes, rivers and reservoirs.

Then he glides on the expanse of ice for hours, surrounded by the peaceful sights and sounds of Colorado's wilderness.

"It's much different from skating at a rink in Boulder," said Bruce, emeritus professor of geology at Western State Colorado University. "We don't want music or hot chocolate or hot dog stands. We like miles and miles of black ice for as far as the eyes can see."

Bruce is part of the unofficial Gunnison County ice "tribe," which consists of about 25 dedicated ice skaters who start tracking ice throughout the state as early as Halloween. Sometimes the pristine ice is easily accessible; other times the trek in is long, cold and grueling.

Either way, it's always worth it, said Bruce.

"It's really just magic ... everything goes away," he said. "You start skating on the ice and you're kinda like floating in space. It's like powder skiing or diving into a coral reef. It's more aesthetic."

Though Bruce grew up ice skating on a flooded baseball field in Chicago, he

didn't try wild ice skating until the nearly snowless winter of 1975-1976. His first skate was at Blue Mesa Reservoir, on the upper reaches of the Gunnison River, which had frozen over and produced an expansive sheet of glistening ice.

"I was pretty much hooked after that," he said.

The Blue Mesa Reservoir holds a special place in Bruce's heart because it was the first place he and his wife, Deirdre, went skating together, nearly 40 years ago. They had just started dating and decided to go for a midnight skate under the full moon.

They've been skating together ever since.

IT'S REALLY JUST MAGIC.

"That night really tied the knot for us," said Bruce, who has used the same pair of speed skates since 1951.

Safety is always a concern.

To test if the ice is safe, skaters toss a rock the size of a softball 10 feet in the air. If the rock breaks through, it's unsafe to skate on. But if the rock bounces off, the adventure is on.

Bruce has never fallen in. Suffice to say, he never hits the ice without an ice pick, life jacket and throw rope — and something warm to drink.

By **Moe Clark** (*M'four'19*)

Notes CLASS

80s & 90s SUMMER 2018



Steve Lamos, who teaches English, writing and rhetoric at CU Boulder, is also the drummer for American Football, a late-'90s rock band. See a video of Steve playing on campus at colorado.edu/coloradan.

'81 After working for the federal government for 32 years, **Melissa Mansell Popp** (IntIAf) retired in 2013. Since retiring, she has battled stage 3 breast cancer, become a court-appointed special advocate for children (CASA) and moved to Firestone, Colo., to be

closer to her granddaughter.

'82 Marsha Piccone (Jour; Law'85), partner of Rollin Braswell Fisher LLC (RBF Law), was named to 5280's Denver's Top Lawyers list in 2018. Marsha is a trial and appellate lawyer and former Colorado Court of Appeals Judge.

'83 Colorado Springs resi-

dent **Steven Anderson** (Econ) published his second book, *Wandering Soul*, in February 2018. The science fiction novel is the second book of his *Reunification* series and is a sequel to *Wandering Star*, which was published in September 2017. Both books are set during a time when members of Earth are attempting to bring the shattered remains of its once vast interstellar union back together.

Chris Conway (Engl) is the president of Spring Back Colorado, an organization that recycles mattresses and provides employment for individuals who face barriers to employment. The organization opened in 2012 and has locations in Denver, Colorado Springs and Fort Collins.

'84 Denver International Airport said **Kim Christiansen** (Jour) will be the new female voice of the airport's "Train Call" announcements. The competition was open to full-time television anchors and reporters in Denver who have spent at least seven years in the city. Kim, who grew up in Colorado, has spent her entire career at 9News, working as a news writer and producer, general assignment reporter and news anchor. Kim has won seven Heartland regional Emmy awards for spot news, news writing and news reporting.

Eric Claman (PolSci) won a seat on the New Hartford, Conn., Board of Selectmen. Prior to entering the political arena, Eric owned and operated two fitness facilities in Connecticut, which he has since sold, and worked as a sales consultant for Twin Oaks Software.

For the past four decades, photographer and graphic artist **Robert B. Decker** (Comm) has been exploring and photographing America's national parks to

9NEWS' **KIM CHRISTIANSEN** (JOUR'84) IS THE NEW FEMALE VOICE OF THE DENVER AIRPORT'S 'TRAIN CALL' ANNOUNCEMENTS.

raise awareness for their continued protection and operation, and to inspire the next generation of national park supporters. He has been photographing national parks since he was 19, when he studied under Ansel Adams in Yosemite National Park. This summer he'll photograph the Great Basin and Redwoods parks. Rob, who lives in Longmont, donates 10 percent of his annual profits to organizations supporting the parks.

'87 Ken Ayers Jr. (MTeleComm) was selected as a Notable 'Nole by Florida State University. He also was named the State of Florida's 2017 Lionfish King after

he eliminated 1,250 invasive lionfish from state waterways in a statewide competition. A total of 26,321 lionfish were removed during the four-month competition, which occurred from the end of May to the first week in September.

'89 On July 14, 2015, all eyes were on Pluto. **Alan Stern's** (PhDAstro) new book, co-authored with David Grinspoon, is *Chasing New Horizons: Inside the Epic First Mission to Pluto*. It tells the story of the men and women behind the mission that sent the NASA spacecraft New Horizons screaming past Pluto at more than 32,000 miles per hour.

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CHAUNCEY BILLUPS (SOC EX'99) PLANS TO OPEN A JAZZ CLUB, RESTAURANT AND LOUNGE IN THE HISTORIC FIVE POINTS' ROSSONIAN HOTEL IN DENVER, EXPECTED TO REOPEN AS A 41-ROOM BOUTIQUE HOTEL AFTER NEARLY TWO DECADES OF VACANCY.

Alan, who led the mission, lives in Colorado with his wife, Carole. They have two daughters and a son.

'91 Poet, writer and teacher **Albert Flynn DeSilver** (Art) won two awards for his latest book, *Writing as a Path to Awakening*, published by Sounds True, a multimedia publishing company based in Louisville, Colo. The book, which encourages readers to live an awakened life in order to become a better writer, won an Independent Publishers Book Award and a Nautilus Book Award. The latter celebrates "better books for a better world."

'94 Technical writing consultant **Yasmin Naficy** (EnvDes) writes that she has funded her film *The Rogue*. She says Professor Joseph Juhasz's film class and Dr. Alex Hoen's work with the CU Boulder space grant program had a huge impact on her.

'95 In June 2017, **Alison (Ali) Bay** (Jour) was appointed deputy press secretary in the Office of California Governor Jerry Brown Jr. Before that, she served as the deputy director for the California Department of Public Health's Office of Public Affairs. Alison has lived in California for 20 years.

Cassandra Volpe Horii (Phys) was elected president of the Professional and Organizational (POD) Network in Higher Education, a professional organization dedicated to educational development. She will serve through spring 2019 then will join the executive board. In 2012, she became founding director of the Center for Teaching, Learning, and Outreach at the California Institute of Technology.

'98 **Christine Ahn** (PolSci) is the founder and international coordinator for Women Cross DMZ, an organi-

zation that aims to end the Korean War, reunite families and ensure women's leadership in peace building. In 2015, Christine helped organize a peace walk across the demilitarized zone that separates North and South Korea. She is also the co-founder of the Korea Policy Institute, a think tank that advises American politicians to foster diplomacy and friendship with both Koreas.

'99 Retired NBA player **Chauncey Billups** (Soc ex) announced he will open a jazz club, restaurant and lounge in the Five Points' Rossonian Hotel in Denver, which is expected to re-open as a 41-room boutique hotel after nearly two decades of vacancy. Chauncey played 17 seasons in the NBA and is a five-time NBA All-Star. Known as "Mr. Big Shot" for making late-game shots, Chauncey lives in Denver with wife Piper and their three daughters.

PROFILE HOSEA ROSENBERG

BOULDER'S TOP CHEF

WHEN *TOP CHEF: COLORADO* filmed an episode in Boulder in spring 2017, chef **Hosea Rosenberg** (EngrPhys'97) served as a guest judge.

The experience elicited strong feelings from when he competed — and won — the show in New York in 2009.

"I was super glad to not be a contestant," said Rosenberg, who lives in Boulder and owns two restaurants, Blackbelly Market and the newly opened Santo. "I know how stressful that show is. I would have nightmares about it when I came home."

YOU'RE ONLY AS GOOD AS THE LAST PLATE OF FOOD YOU'VE PUT OUT.

Stress aside, Rosenberg said the show opened opportunities for him.

"I got to cook for some of the best chefs in the world," he said — Jacques Pépin, Lidia Bastianich and Marcus Samuelsson, for instance. "It proved to me I can accomplish a lot in a short amount of time if I'm forced to."

Nearly a decade later, Rosenberg — a married father of a one-year-old — has firmly established himself as one of Boulder's own top chefs. Santo opened in late 2017 off Broadway and Alpine streets to positive customer reviews, and Blackbelly is, to many, a Boulder staple and is especially well known for its meat dishes.

With Santo, Rosenberg is tapping into northern New Mexican cuisine, a tribute to his childhood in Taos, N.M.

"Here, it's all about green chili," he said.

Growing up, Rosenberg, 44, often visited Boulder, where his half-sister lived. When it was time for college, CU was front of mind.

"I liked the idea of going to college somewhere in the Rockies, close to my home, but far enough away that I wasn't reminded of it every day," he said.

He majored in engineering physics and worked his first college job at the Boulder Salad Company, then located near McGuckin Hardware. Throughout college, Rosenberg worked both kitchen and engineering jobs, including a stint at CU's planetarium. After graduation, he and a friend took time to travel.

"During our travels, I decided that I wanted to become a chef and not be an engineer," he said.

He was accepted into the Culinary Institute of America, but a mentor encouraged him to forgo culinary school.

"My chef mentor told me, 'Get a job where you're going to get paid to learn, rather than pay to learn,'" he said. "It was good advice."

Rosenberg worked at Denver and Boulder restaurants and became head chef at the now-closed Dandelion on Walnut Street at age 26. In 2008, he was selected for season five of *Top Chef*. His \$100,000 winnings allowed him to stay in Boulder, run a catering company, food truck, farm and, eventually, his restaurants.

All the while, he's prioritized quality, local ingredients and seasonal, creative menus.

"Hosea knows we could make more money if we sold commodity food but refuses to take the easy way out," said Ian Reusch, Blackbelly and Santo's director of operations. "That type of devotion is hard to find in such a cut-throat industry, and it makes all the difference."

For Rosenberg, he's challenged to strive for more.

"You're only as good as the last plate of food you've put out," he said.

By **Christie Sounart** (Jour'12)



Notes

CLASS

00s & 10s SUMMER 2018



CU biologist Mel Cundiff and students in his coral reef ecology class during a trip to Cozumel, Mexico.

'04 Brandi N. Ring (MCDBio, EPOBio) was elected National Junior Fellow Vice Chair for the American College of Obstetricians and Gynecologists (ACOG). Her term began in April 2018 and will run for three years. Brandi is an obstetrician and gynecologist for Mile High OB/GYN in Denver.

Crystal R. Watson (MCDBio) is a senior scholar at the John Hopkins Center for Health Security and assistant professor in the Department of Environmental Health and Engineering at the Johns Hopkins Bloomberg

School of Public Health. She specializes in public health risk assessment, crisis and risk-based decision making, public health and health-care preparedness and responses, biodefense and emerging infectious disease preparedness and response. From 2012 to 2013, she served as the program manager for the Integrated Terrorism Risk Assessment program for the U.S. Department of Homeland Security.

'05 K.J. Rawson (MEngl) was promoted to associate professor with tenure by the College of the Holy Cross in Worcester, Mass. A member of the English department, K.J. has a PhD in composition and cultural rhetoric from

Syracuse University. His research interests include composition, rhetoric, digital media, feminist and queer theory and LGBT studies. In 2016, he founded and created the Digital Transgender Archive — a publicly available database for transgender history. He has been a member of the Holy Cross faculty since 2012.

'06 Kyle Redfield (Econ) is CEO and president of KonaRed Corporation, a premier Hawaiian coffee brand. In 2017, Kyle launched the company's first line of ready-to-drink cold brew coffees. He leads product development to find sustainable ways to use the coffee fruit, which surrounds the coffee bean and is usually discarded

in the coffee making process. He previously was the general manager for POM Wonderful, a beverage and fruit extracts company. Kyle resides in California. Read our Forever Buffs Q&A featuring him at colorado.edu/coloradan.

Kevin Walsh (Psych) joined the firm Brownstein Hyatt Farber Schreck in the litigation department, based in Denver. In his practice, Kevin specializes in construction law and commercial litigation. Prior to joining Brownstein, Kevin was an associate principal at The Holt Group, LLC, where he provided legal services to general contractors, design builders, sub-contractors, architects, engineers, private owners and governmental entities. He serves as an adjunct professor at CU's College of Engineering & Applied Sciences, where he teaches a course on the legal aspects of construction.

'07 Ira Bauer-Spector (Thtr) received the 2017 Betty Peabody Emerging Young Leader of Balboa Park Award for his contributions to fostering awareness for the arts. Ira is the marketing and communication manager for the San Diego Civic Youth Ballet and the founding artistic director for the Breakthrough Workshop Theatre, which is celebrating its sixth year.

Caroline Bess Pearce (Anth; Law'10) became a member of Sherman & Howard LLC. Caroline specializes in estate planning, estate and trust administration, wealth management, wealth

transfer, marital planning and charitable giving matters. She is a member and past president of the Pitkin County Bar Association and a member of the Rocky Mountain Estate Planning Council, a local organization of professional estate planners focused on the education of members and the public in estate planning.

'08 Ted Vardell (Comm) and his brother Tommy Vardell, former NFL fullback, started the Boulder-based nonprofit called Brotherbird Foundation in 2016 to encourage youth to explore art, music and sports. The organization has hosted programs at the Temple Grandin School of Autism, Denver School of the Deaf, Malley Elementary, OUR Center of Longmont, Columbine Spanish Immersion Elementary and Mountain Children's Foster Home.

'09 Jenny Simpson (PolSci) is still running strong since winning a bronze medal at the Summer Olympics in 2016. She was inducted into the Colorado Running Hall of Fame this year and has been called the greatest American 1,500-meter

runner. She also set an American record in the 2-mile race in April. She hopes to represent Team USA at the 2019 World Championships in Doha, Qatar.

'10 "If all goes well, I'll be sending Buff love just shy of the North Pole this August!" writes **Neil Almy** (Fin), who is on a year-long sailing expedition with the goal of sailing farther north than any other vessel in history, through the Northwest Passage to the very edge of the Polar Ice Cap. The mission, called the Infinity Exhibition, includes a team of 22 individuals hailing from 10 countries and is being filmed as a follow-up documentary to *Sea Gypsies: The Far Side of the World*.

'11 Bruce Pelz (EnvSt) is co-founder and U.S. president of the nonprofit Maji Safi Group, which is celebrating its five-year anniversary. The mission of the organization is to "promote health and disease prevention in underserved and impoverished areas through holistic community empowerment and by working predominantly

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NEIL ALMY (FIN'10) IS ON A YEAR-LONG SAILING EXPEDITION WITH THE ULTIMATE GOAL OF SAILING FARTHER NORTH THAN ANY OTHER VESSEL IN HISTORY, THROUGH THE NORTHWEST PASSAGE TO THE VERY EDGE OF THE POLAR ICE CAP.

with local women and youth.” While attending CU, Bruce studied abroad in Tanzania and wrote an honors thesis titled “The Future Environmental Views of Children across Cultures and Socioeconomic Class.” As part of his research, he surveyed students in five Tanzanian primary schools and two American elementary schools.

Brian Schroy (Jour) is regional fight manager for the nonprofit Haymakers for Hope, which empowers men and women to learn boxing as a way to raise money for cancer research. After Brian graduated from CU, he moved to New York to work for a public relations agency specializing in outdoor sports. Three years later, he opened an action sports and lifestyle PR and marketing company, B Dot Media Group. Brian lives in Boulder.

'13 Jackie Fortier (MJour) accepted a position as a public radio reporter for StateImpact Oklahoma, a collaboration of public radio stations. Jackie travels around the state to report

on energy and the environment, education, health and criminal justice.

'15 Nicole Chan (Chin, IntlAf), **Spencer Lahrs** (IntlAf'17) and **Amber Spawn** (Mgmt'17) were awarded an Anna Sobol Levy Fellowship, which supports graduate studies in counterterrorism or diplomacy at the Raphael Recanati International School at the Interdisciplinary Center in Herzliya, Israel. In addition to class instruction, fellows attend various security trips around Israel and take part in special lectures with leaders in the Israeli and U.S. military and other organizations, such as the FBI and NATO.

'16 “Bio battery” gurus **Tyler Huggins** (PhDCivEngr) and **Justin Whiteley** (PhDMechEngr) received an alumni campus sustainability award from CU’s Environmental Center. The duo, who co-founded the startup technology company Energy Labs, are transforming wastewater from

the beer brewing process into energy cells for “bio” batteries.

'17 Aspiring science writer **Amanda Grennell** (PhDChem) was awarded an AAAS Mass Media Science & Engineering Fellowship. She will be writing in a newsroom for 10 weeks for PBS NewsHour. At CU, Amanda used ultrafast lasers to study biomimetic nanoparticle-enzyme systems that can turn sunlight into fuel. She was also the senior editor for the graduate student-run blog Science Buffs.

After graduation, **Bryce Arai Mawhinney** (Acct, Econ, Mktg) embarked on a one-month expedition to Nepal to work with the Katie Adamson Conservation Fund, a nonprofit that promotes endangered animal conservation initiatives. While in Nepal, Bryce transported camera equipment, supported sustainable honeybee projects and helped care for a rhino calf. Bryce currently works for Deloitte Consulting in Denver and writes that he hopes to merge his business and environmental interests in the future.

PROFILE EMMA OOSTERHOUS



A LIGHT IN THE DARK

WHEN **EMMA OOSTERHOUS** (SPAN'17) was growing up in Colorado Springs, she longed for more resources and support related to gender and sexuality. She’s on a mission to make sure the next generation of queer youth has what she lacked — and she’s doing it one webcomic at a time.

Oosterhaus is the creator of *Alphabet Soup*, a LGBTQ+ webcomic that illustrates the trials and triumphs of coming out. Her comics explore a wide array of experiences related to gender identity and fluidity, sexuality and relationships — topics like coming out to loved ones, navigating past traumas and feelings of love, rejection and acceptance.

“There is a lot of fear that comes along with growing up queer. I get a lot of variation in the coming out stories I receive, and I think it’s just important to get as much out there as possible so that people don’t have to flounder in the dark,” said Oosterhaus, one of 43 Americans to win a Marshall Scholarship this year. It will fully fund her master’s degree in comics and graphic novels at the University of Dundee in Scotland this fall.

Oosterhaus, who identifies as a lesbian, started her online comic in 2015 while she was interning at Inside/Out youth services, an LGBTQ+ nonprofit located in Colorado Springs. Her project design was simple: She asked

kids to share their experiences, then transformed them into art. After the internship ended, she posted her comics to Tumblr, and within 30 minutes she had more than 100 followers.

“It was extremely motivating,” said Oosterhaus, who has been creating art since she could hold a crayon.

So far, she’s drawn 134 comics, and has more than 400 ideas waiting patiently in her inbox. She’s working on a graphic novel in which the protagonist, October, is followed around by the physical manifestation of trauma, which takes the shape of a goblin.

I THINK IT’S JUST IMPORTANT TO GET AS MUCH OUT THERE AS POSSIBLE.

Oosterhaus provides an online space for queer youth to share their experiences and to show support for each other — because, for many, online support is the only form available.

“Something really special that we have today in the digital age,” she said, “is that we can forge these connections with people that we may have never known existed and that we may never meet in real life, but they are just as important and just as influential and can be a lifesaving force of good.”

By *Moe Clark* (MJour'19)



Illustrations courtesy Emma Oosterhaus

In Memoriam

Howard T. Hatton (MusEd'39; MA'41)
 Doris Coon Rood (Mus ex'40)
 Marie Fenn Eggers (Engl'42)
 Carol G. Redeker (A&S ex'42)
 Margaret Strawn Reeder (CompSciAp'42)
 Alfred Rueb (A&S'42)
 Charline Knudson Scoggin (A&S'42)
 Clark M. Shimeall (Geol'43)
 Irving A. Sofen (ElEngr'43)
 Mary Johnston Hennebach (HomeEcon'44)
 Robert D. Bergman (A&S ex'45)
 Ann Williams Burwell (A&S'46)
 Lester G. Lautman (AeroEngr'46)
 Louella E. Berkeland (A&S'47)
 Everette F. Hayes (Acct ex'47)
 Wesley A. Thomas (CivEngr'47)
 Ila R. Walker (Nurs'47)
 Adair Appleton Lazell (A&S ex'48)
 Pete Coloff (MechEngr'48)
 Paul E. Riley (Geol'48; MA'50)
 Lolita Garcia Rutland (Nurs'48)
 Jo Sharp Ryden (A&S'48)
 Willard M. Salzer (A&S'48; MA'50)
 Richard L. Speck (A&S'48, MD'53)
 Dorothy Martz Watts (A&S'48)
 Esther Wennberg Arnison (A&S'49)
 Stanley A. Bardwell (A&S'49, MD'54)
 Don U. Deere (MGeol'49)
 Melvin Dinner (PolSci'49; Law'51)
 Amy M. Johns (A&S ex'49)
 Jean Douglas Kuehster (A&S'49)
 Mary Billington Pribbeno (Edu'49)
 John E. Bunts (ArchEngr'50)
 Wesley D. Burnett (Hist'50)
 Wiley S. Chance (Edu'50)
 Warren E. Frank (PolSci'50)
 Velma Woods Julin (Nurs'50)
 Alan C. King (ArchEngr'50)
 Sarah Tutt Koch (Chem'50)
 Harold D. Lasley (MechEngr'50)
 William D. Loper (A&S'50)
 Spencer L. Manlove Sr. (A&S ex'50)
 Bruce E. McCall (A&S'50)
 Leonard T. Pecchia (A&S'50)
 M. Jeanne Place (AeroEngr'50; MS'65)
 Gerald R. Roberts (Pharm'50)
 Leon R. Stanley (Mgmt'50)
 Daniel A. Gale (A&S'51; MA'60)
 Donald F. Imgrund (Acct'51)
 Mary Hegwer Indermill (ArchEngr'51)
 Howard D. Kennedy (Pharm'51)
 Marilyn M. Kuhn (Nurs'51)
 Harry J. Newman Jr. (Mgmt'51)
 Roy A. Pierson (Mgmt'51)

Walter F. Seifert (ChemEngr'51)
 Alta Brown Singleton (Acct'51)
 Helen Hanson VanMeter (PE'51)
 John Amaya (Pharm'52)
 C. Wayne Bills (MChem'52; PhD'54)
 Norbert A. Eggering (A&S'52)
 William D. Hart (Fin'52)
 George W. Hermann (MPE'52)
 Charles H. Lenhart (A&S ex'52)
 Claire Salvo Lundy (A&S'52)
 Robert E. Nicholas (MusEd'52)
 Carolyn Robertson Ohl (A&S'52)
 Bradford J. Pretti (Econ, PolSci'52)
 Alice Cavender Savage (A&S'52)
 A. Richard Tagg (A&S ex'52)
 Eugene A. TeSelle Jr. (Hist'52)
 Robert E. Brooks (A&S ex'53)
 Barbara Hoppock Chambers (MusEd'53)
 Joanne Atanasoff Gathers (A&S'53)
 Carol F. Holzer (Edu'53)
 Ronald K. Hoyt (Chem, Math, Zool'53)
 Gail Walmsley Glass (A&S ex'53)
 Vukan Kuic (A&S'53)
 Robert J. McClelland II (Pharm'53)
 Carolyn Haag McMurray (A&S ex'53)
 Jack W. Montgomery (Mgmt'53)
 Eva Jagers Summers (A&S'53)
 Joan McKay Wallace (A&S ex'53)
 Lyle O. Wright (ChemEngr'53)
 Barbara Kreutz Barrett (A&S'54)
 Arthur R. Cook (MHist'54)
 Charles R. Hedenstad (ChemEngr, Mktg'54)
 William J. Horton Sr. (A&S'54)
 Hellmut L. Meyer (A&S ex'54)
 Nancy Harlan Phelps (Engl'54)
 Janie Glascock Soms (Art, Hist'54)
 Clifford J. Alderson (Mktg'55)
 John H. Bleeke (MEdu'55)
 Pat Bardwell Callan (A&S'55)
 Ruth Campbell Cluxton (A&S'55)
 Marion P. Greenfield (A&S ex'55)
 Joan Williams Harriman (A&S ex'55)
 Claire Chittim Mathews (CompSciAp'55)
 Kathleen L. Rees (A&S ex'55)
 Leo A. Speno (Geol'55; MS'58; MD'62)
 Sue Scott Irwin (A&S'56)
 Malcolm W. Lindsay (Fin'56)
 Lucien Long (A&S ex'56)
 Alfred W. Metzger Jr. (A&S'56, Law'58)
 Maurice M. Nottingham (ElEngr'56)
 Eugene Pepper (A&S'56; Law'59)
 Sam D. Roller (A&S'56)

Virginia Roe Anderson (A&S'57)
 Jean Wurst Archer (A&S'57)
 Don J. Arneson (A&S ex'57)
 Dean L. Christensen (Geol'57)
 Richard L. Conklin (PhDPhys'57)
 Waldo R. Dagle (EngrPhys'57)
 Shirley Wright Fullen (A&S ex'57)
 Nancy Hoffman Herman (A&S ex'57)
 Robert J. Hiebner (A&S'57)
 Conrad J. Mazurek (A&S ex'57)
 Charles W. Plummer (A&S ex'57)
 Elizabeth Burgess Sullivan (HomeEcon'57)
 Owen E. Thomas (A&S ex'57)
 Norman F. Bull (ElEngr'58)
 Krishan M. Chawla (ElEngr'58)
 Samuel J. Dackawich (PhDA&S'58)
 Burton J. Dunevitz (PE'58)
 Albert G. Gregonis (A&S'58)
 Gary D. Hase Sr. (ApMath'58)
 Judith Bower Henning (Jour'58)
 Reed E. Neddermeyer (ElEngr'58)
 Judith Woodin Peterson (A&S ex'58)
 Edwin H. Ross (Geol'58)
 Neil L. Snider (PE'58)
 Richard D. Stacy (PhDA&S'58)
 Charles H. Vest (PE'58)
 Tom Woodford (A&S'58; Law'61)
 Howard E. Zink (MBA&S'58)
 Michael J. Farmer (A&S'59)
 Dexter W. Hess (PhDBtrny'59)
 Dorothy Camerolo Lagmin (Bus'59)
 Jean Smith Morr (A&S ex'59)
 Charles B. Olson (ArchEngr'59)
 O. Glenn Stull Jr. (Acct, Fin'59)
 Mary Ghormley Tudor (Art'59)
 Franklin A. Burke (MMgmt'60)
 William W. Colliflower (A&S'60, MD'64)
 James E. Fitzmorris (Bus'60)
 Thomas O. McWilliams (Bus'60)
 John R. Means (A&S'60)
 Maralee Reineke Udell (A&S ex'60)
 Robert T. Binkley (Acct'61)
 Craig O. Canon (Geol'61)
 Roger V. Corley (Acct'61)
 Gerald M. Hickman (Zool'61, MD'65)
 Reinhold R. Klein (A&S ex'61)
 William P. O'Neil (MMechEngr'61)
 Jacqueline Fischer Oswald (A&S ex'61)

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Jerry Seifert (DistSt'61)
 Madeline J. Johnson Davis (Bus'62)
 William T. Dixon Jr. (A&S ex'62)
 C. Jean Fulco (MArt'62)
 Russell J. Hammersmith (MCivEngr'62)
 Anne Miler Hasse (Soc'62)
 Stephen L. Leroux (A&S'62)
 Jan Erik Skugstad (CivEngr'62)
 Mary Ann Taliaferro (MA&S'62)
 J. Brent Terry (Hist'62)
 Leon W. Butterfield (Edu ex'63)
 Alan Cass (A&S ex'63; HonDocHum'99)
 Charles C. Hawley (PhDGeol'63)
 James B. McCrumb (A&S'63)
 Diane E. McNalley (Hist'63)
 Betty J. Ware (MNurs'63)
 Claire Bonfield Williams (Edu'63)
 Henning O. Nilsen (Bus'64)
 William C. Thomas (Mgmt'64)
 Violet V. Zielke (A&S ex'64)
 Robert W. Clegern (Bio'65)
 Larry G. Cogswell (ArchEngr'65)
 Lutz W. Dahlke (Phys'65)
 Fereidoon Fairpour (A&S'65)
 Robert L. Kemp (A&S ex'65)
 H. Robert Krear (PhDZool'65)
 Timothy I. Monday (Bus'65)
 Donald J. Tallman (A&S ex'65)
 L. Warner Weiss (AeroEngr'65; MS'66)
 Robert L. Carper (Arch'66)
 Raymond D. Danielsen (DistSt'66)
 Janet E. Elder (Mus ex'66)
 Roger R. Peery Forbis (Engl'66)
 Shirley Grange (A&S'66)
 Seung P. Li (PhDPhys'66)
 Joan A. Morine (A&S ex'66)
 Linda Anderson Vali (Advert'66)
 Lindsey S. Antle (A&S ex'67)
 William Boiko (ElEngr'67)
 Walter V. Novak (A&S'67)
 James P. Ashley (A&S ex'68)
 Carla J. Clerkin (PoliSci'68)
 Elaine Stickney Long (MEdu'68)
 Peter W. Nichols (A&S'68)

George Oetinger III (A&S ex'68)
 Ernest L. Pyle (A&S'68)
 Russell E. DeSalvo (Law'69)
 Sarah Russell Etchart (Advert'69)
 Richard E. Getty (A&S ex'69)
 Philip B. Ginnely (Hist'69)
 Paul A. Hage (ElEngr'69)
 Donna L. McKie (Nurs'69)
 Mary Ann Kullman O'Connor (Psych'69)
 Alfred Petrick (PhDA&S'69)
 Catherine Dunlap Geisler (Chem'70)
 Michael H. Meyerle (Law'70)
 Rex G. Abelein (MEdu'71)
 Margaret Bolan Bigelow (Anth'71)
 Lewis F. Bobrick (A&S ex'71)
 Lawrence M. Brewster Jr. (ElEngr'71)
 Kathleen A. Finn (Soc'71)
 Kathleen Mordhorst Frey (PolSci'71)
 Molly C. Jensen (A&S'71)
 Jack J. Natterman (AeroEngr'71)
 Cheryl A. Hanson (Soc'72)
 Dennis H. Bauer (Jour'73)
 Lynne Schneider Cantrell (Mktg'73)
 Don Freemyer (Law'73)
 Jeffrey M. Gabrielson (Phil'73)
 Janet Fletcher Graham (Psych'73)
 Robert C. Lundeen (Mktg'73)
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 Eva Lanier, Alumni Association

Letters

SUMMER 2018

ORIGINS ARCHAEOLOGY



OUR OWN INDIANA JONES

If Earl Morris (Psych1914; MA1916) wasn't the inspiration for Indiana Jones, you could be forgiven for thinking so: He looked the part.

A preeminent archaeologist of the American Southwest's Four Corners area and a seminal figure in the study of pre-European human societies in the broader region, Morris traveled to far-flung dusty digs in a truck called "Old Joe," a feature etched on his face.

"There are very few places I've worked where Morris wasn't there before me," said Stephen Lekson, curator of archaeology at the University of Colorado

Museum of Natural History and a professor of anthropology.

Understanding the early Southwest seems to have been destiny for Morris, who was born in New Mexico in 1889 and reported finding his first artifact, a dipper bowl, at age three.

During a four-decade-plus career, he excavated thousands of artifacts and many ruins, supported by museums, scientific organizations and universities, including CU, leading to a scrupulous portrait of the region before European settlement.

The museum today contains thousands of items Morris unearthed, among

them flutes, sandals, baskets, bags, pottery and weapons, Lekson said.

Morris studied various native societies throughout the Southwest and Central America, and was especially influential in revealing the story of the ancestral Pueblo Indians, once called Anasazi.

He's also well known for his discovery and reconstruction of the Great Kiva, or great room, at what today is Aztec Ruins National Monument in New Mexico. (His dwelling there is now the visitor's center).

Morris worked closely with his first wife, archaeologist Ann Axtell Morris, who in 1933 wrote a general interest book called *Digging in the Southwest*.

By Eric Gershon

By Eric Gershon

Photo ©University of Colorado Museum of Natural History

Colorado SPRING 2018 14

CU'S INDIANA JONES

I WAS VERY PLEASED TO SEE THE ARTICLE ON EARL MORRIS IN THE SPRING 2018 EDITION OF THE COLORADAN [PP. 13-14]. HE WAS A SUPERB SCHOLAR AND SUPERB HUMAN BEING.

I attended the same schools at the same time as did his daughters Sarah and Elizabeth. Their mother, Ann Axtell Morris, wrote another very interesting and well-received book called *Digging in Yucatan*. After she died, Earl married Lucille Bowman — the principal of Highland School, my first-grade teacher and life-long friend. They continued to live and entertain in his charming artifact-filled home in Boulder's Geneva Park until his death

from a stroke in 1956. Many thanks for the article!

Orin Dale Seright
(Engl'55)
Spring Valley, CA

Earl Morris (Psych1914; MA1916) was a great American archaeologist who inspired a generation and more of Southwesterners to get out there to see the remains of prehistory, breathe it in, and then study, research and pass it on ["Our Own Indiana Jones," pp. 13-14]. I was one of them, and especially lucky to be set in motion by an experience at CU with Earl Morris himself.

In 1952 I was an untraveled sophomore with a science scholarship, but not a clue as to what field to use it in. My boyfriend, however, had already visited Mesa Verde and Canyon de Chelly, and was excited to discover that their excavator, Morris, was teaching a rare class. He jumped to take it.

At a time when professors were generally more formal and detached, Morris invited his class to come to his home on The Hill for a look at his tools and collections (which later formed important holdings at the CU Museum of Natural History). I went, too, and listened and looked as the great man showed us ancient woven sandals, pots containing small desiccated corncobs and field notebooks. With evident enjoyment, he told stories and discussed meanings of each piece and answered our questions. In that two hours I became truly caught in the spell

and the content of Southwestern archaeology!

I majored in anthropology, published on Mesa Verde archaeology, specialized in material culture and for 30 years curated American Indian collections at the Denver Museum of Nature & Science. My long-ago "boyfriend" became my husband, **Laurance Herold** (MGeog'56), a University of Denver professor who made discoveries about prehistoric people's adaptations to environment.

Thank you — profoundly — Earl Morris!

Joyce Herold
(Anth'55; MA'59)
Denver

RIOT ON THE HILL

Love the *Coloradan* and its articles, but this one ["Riot of '71," p. 8] by Paul Danish needs a little more info. My boyfriend then/husband now was on The Hill the first night of the riots. The reason for the large crowds on the street to begin with was that bomb threats were called into The Sink and Tulagi's, so they made everyone leave those busy hangouts. A lot of people milling on the street were not sure what was going on. It was a scary time for sure!

Linda Bowes (Ger'70)
Longmont, Colo.

BALLOONS

I received my alum mag this week and I was disappointed to read about the space minor balloon release experiment ["CU Around," pp. 45-46]. I know it is not always easy to avoid generating trash and litter, but I wonder if

(and hope that) another activity could be pursued to engage students? That would be my challenge to the program, especially since part of the goal is to "find pathways to address the significant issues our planet faces." Thanks for listening!

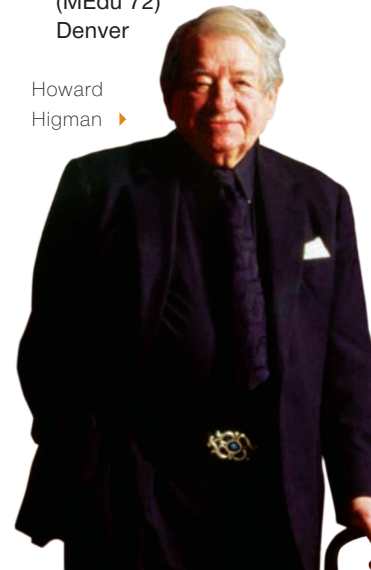
Dakota-Rae Westveer
(Comm'13)
Boulder

CWA'S 70TH

My wife, Alice Higman Reich, and I were glad to see that the Conference on World Affairs and its 70th anniversary were acknowledged ["Informational," pp. 23-24], but I was disappointed not to see at least a mention of Alice's father, the conference founder and director for 45 years, Howard Higman. Among many others, he and long-time CWA participant Roger Ebert were the best of friends. Granted, Howard could be controversial at times, but, suffice it to say, if it had not been for him, there would be no CWA. This was his most important legacy to CU, the institution he loved, and I would hate to see it forgotten.

Lee Shannon
(MEdu'72)
Denver

Howard
Higman ▶





At Commencement 2018, 6,063 bachelor's degrees, 1,487 master's degrees, 199 law degrees and 414 doctoral degrees were awarded to students who finished in fall 2017 and spring and summer 2018. Oregon Gov. **Kate Brown** (EnvCon'81) delivered the address. "Once I toured this campus, I was hooked," she told the Folsom Field crowd on Thursday, May 10. "I couldn't see past the Flatirons."

GETTING SOCIAL

Spring issue comments spotted on Facebook.

Of past speakers at the annual Conference on World Affairs ["Infographic"], Sarah Russell wrote: "Eleanor Roosevelt??

Oh, wow, that '55 audience was so lucky."



The *Coloradan's* story and photo with CU's **Earl Morris** (Psych1914; MA1916) prompted Myron Rosenberg to write: "When I moved to Boulder with my parents in 1949, my father drove a 1941 Buick. It had running boards, upon which I would ride home from Lincoln Elementary School at lunch. Note the water can next to the driver. And those are bed rolls on the running board. We, too, slept in parks, or in fields along the way. On the front of our car dad hung a two-gallon canvas water bag. The wetted fabric, exposed to the air current, caused evaporative cooling, maybe my first recollection of physics...followed by a pickup tailgate hitting me

in the mouth as it fell into my tiptoed face. (Dad told me I was minding someone else's business...a trait I've only enhanced, I fear.) I remember we had a whole bunch of crap tied on to the roof. This cross-country trip, prior to the Pennsylvania Turnpike, was slow, two-lane and memorably scenic. This type of travel was fun, and a veritable thrill I have never forgotten."

Regarding CU Boulder's new marijuana research methods, described in "Research on the Road," several readers weighed in. **Mindy Grinold Bicknell** (Rec'84) wrote: "Proud of my alma mater's creative approach to much needed research."

Photo courtesy CWA; Casey A. Cass (top)

LIST OF 10

10 BUFFS WHO ARE EXTREME ATHLETES

- 1. Roger Briggs** (Phys'73; MEdu'90); rock climber
- 2. Vince Anderson** (ArchEngr'93); mountaineer
- 3. Chris Davenport** (Hist'93); skier
- 4. Andrew Hamilton** (CompSci'98); speed hiker
- 5. Dede (Deirdre) Barry** (IntlAf'03); cyclist
- 6. Jeremy Bloom** (A&S'06); Olympic freestyle skier
- 7. Emily Harrington** (IntlAf'07); climber
- 8. Sonya Looney** (MEIEngr'07); cross-country mountain biker
- 9. Paul Robinson** (Art'11); climber
- 10. Giselle Cesin** (MJour'19); mountaineer

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Coloradan

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THEN

APRIL 4, 1968

A motel in Memphis. A hotel in Los Angeles. The streets of Baltimore, Chicago and Washington. Combat zones across Vietnam. The year 1968 shook with violence.

On Tuesday, April 9, the day of Martin Luther King Jr.'s funeral, 2,500 people packed Macky Auditorium in tribute to the slain civil rights leader, shot the previous Thursday at Memphis' Lorraine Motel, pictured. The New York Stock Exchange was still. Major League Baseball canceled opening day. Businesses across the U.S. opened late or not at all.

