

Fall 2017

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UTAH STATE

FALL 2017



BIG MILESTONE

Lyric Repertory Company's 50th Anniversary
Launches "Year of the Arts"

2017-18 SEASON

FIND YOUR *melody*

Grand Gala Concert

Featuring Kelli O'Hara

WEDNESDAY, OCTOBER 18, 2017
7:30PM

War & The Human Heart

Songs of Battle, Loss and Love

FRIDAY, NOVEMBER 10, 2017
7:30PM

A Veterans Day Memorial

SATURDAY, NOVEMBER 11, 2017
7:30PM

Christmas

with the American Festival Chorus
& Orchestra

Special Guest

GENTRI

DECEMBER 8, 2017 7:30PM

DECEMBER 9, 2017 2:00 PM & 7:30PM

Music Has No Passport

Family Pops Concert

with Alex Boyé

SATURDAY, FEBRUARY 10, 2018
7:30PM

Sancta Civitas

Ralph Vaughan Williams

Guest Conductor Stephen Cleobury

SATURDAY, APRIL 7, 2018
7:30PM

All performances will be held in the Daines Concert Hall,
Chase Fine Arts Center, Utah State University.

www.americanfestivalchorus.org

American FESTIVAL CHORUS AND ORCHESTRA™

10TH
ANNIVERSARY

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OF
THE
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6

USU Arts Through the Generations

ON THIS PAGE: Actor Richie Call onstage with his grandfather, W. Vosco Call, in *The Dresser*, 2008.

ON THE COVER: Scene from Lyric Rep's 2017 production of *Big River — The Adventures of Huckleberry Finn* with Cameron Blankenship as Huck Finn and Paul-Jordan Jansen as Jim. This summer's Lyric season, which marked the company's 50th anniversary, ran from June 16-Aug. 5.

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Aggie Social Life



madi_petty

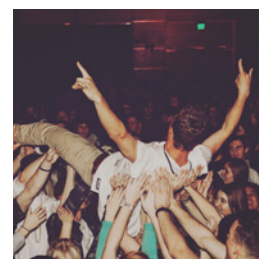
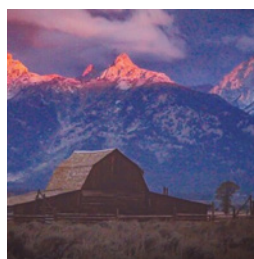
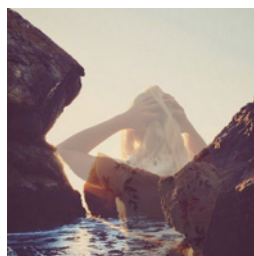
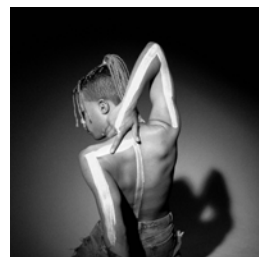
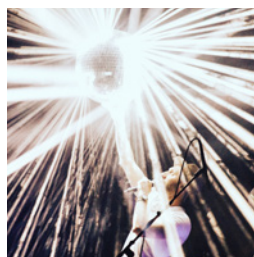
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1,144 followers

982 following

MADI PETTY Another damn photographer. Music is my main jam. Utah State University. Work hard and it will pay off
open.spotify.com/user/bonanzacampout/playlist/2xNdqIkQSF80PmE4xL7aGa



Madi Petty Instagram Information

Instagram Handle: @madi_petty

Q & A:

How long have you been using Instagram?— I have been using Instagram for around 2 years now.

Why do you like to use Instagram?— I personally love to use Instagram to promote my work, but also see a wide range of art, music and lifestyles. I follow all types of creative fields such as other photographers, graphic designers, bands, artists etc... Seeing all types of creative content helps broaden my spectrum for future collaborations and work.

When did you begin taking photos?— I started taking photos around two years ago. But over time I have worked to specialize in music and event photography.

What drives you to take photos?— I think there is something very powerful about a still photo; emotion, message, aesthetic and perception are all in a photographer's hands when creating a photograph. Photography

is a powerful tool to educate, inform and inspire others and yourself. It can change the way you think, your perception of the world and spark more creativity.

How has Instagram/photography benefited you, changed you, etc..?— Instagram itself has been a powerful tool in connecting and sharing my work with others across the world. I acquire most of my business through Instagram, which I am extremely grateful for.

Photography wasn't something I saw myself doing professionally, however some of the greatest things in life come unplanned and unexpected, and that's what happened in my case. I can recall the exact moment I realized this was what I wanted to do for the rest of my life; freshman year, at the Logan City Limits music festival. I was taking photos during all the concerts and I remember photographing the bands Vanladylove and Smallpools. Being right up on the stage was an adrenaline rush nothing can compare to. I remember experiencing these amazing acts through my camera lens. I had the power to tell a story and my experience through a photo. It was then that I fell in love with photography.

Thomas Rose Instagram Information

Instagram Handle: @thomascrose

Q & A:

How long have you been using Instagram?— I actually downloaded Instagram during Connections my freshman year at USU. So, technically a little over 5 years, but in terms of using it for photography it's been about a year and a half!

Why do you like to use Instagram?— To me, the coolest



thomascrose

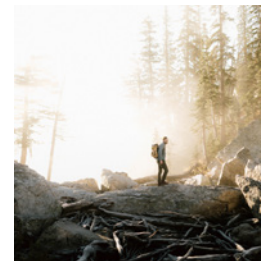
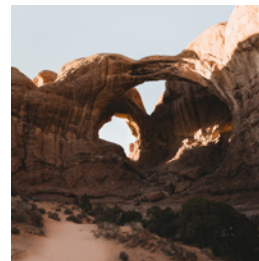
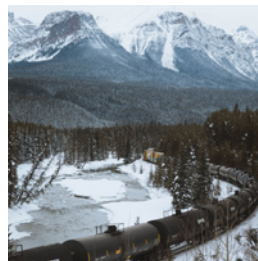
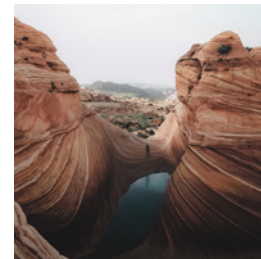
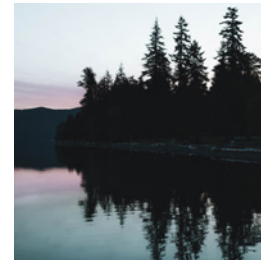
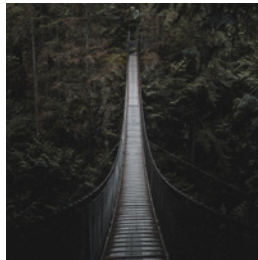
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Thomas Crose Photographer • Logan, UT thomascrophoto@gmail.com



thing about Instagram is connecting with people. I have met people through Instagram that are now some of my closest friends in real life. It is just insane to me that I can post that I'm traveling somewhere, and because of an app I have on my phone I meet people that live there.

When did you begin taking photos?— I bought my first DSLR in August of 2015 because all my friends were always taking photos and traveling and I didn't want to be the only one of our friends that wasn't.

What drives you to take photos?— To inspire others. I want people to realize and see how beautiful our world is and hopefully cause them to want to go out and see it, and protect it. On a more personal level, seeing new and beautiful places with my friends and making memories is one of the coolest things about photography.

How has Instagram/photography benefited you, changed you, etc..?

From a business perspective it has been cool that people can see my profile on Instagram and book me to do shoots, again, just because of an app on my phone. That is SO CRAZY to me. I wouldn't say Instagram has changed me, but the people I've met through it have. I have been so lucky to make relationships with a lot of really awesome people that I wouldn't know without Instagram.

USU Instagram: @usuaggielife

Utah State University Vice Provost Janet Anderson was winding down her introduction of USU President Noelle Cockett, who was about to deliver her inaugural address May 4.

Just as Anderson was concluding, she threw in the little observation that, for all the exemplary qualities Cockett possesses, she suffers from one tiny flaw: “She is not as punctual as you would expect for a president.”

The immediate smiles, laughter and nods of agreement that swept the audience in the Ellen Eccles Theatre on that mild spring night, were as endearing as they were telling. This was an Aggie family moment and nearly everyone was in on the joke.

To be fair, Cockett’s behind-schedule tendencies are not because she does not care or value others’ time; they are because she tries to personalize each of her back-to-back meetings throughout the day, Anderson noted.

“She makes each and every person who visits her office feel welcome by getting to know them and allowing them to know her,” Anderson said. “The outcome of this flaw is trust.”

The academic and administrative accomplishments of Cockett at USU over the past 26-plus years got Anderson and her colleagues thinking about why the university’s first female president is so uniquely qualified for the job. They came up with 83 reasons. Among them, thanks to her years spent on her uncle’s cattle ranch in Montana, “she knows how to handle BS.”

“She is the most seasoned administrator to ever hold this position,” Anderson said. “She understands the complexities involved in moving USU forward and is fearless and undaunted by the challenges ahead.”

She holds the admiration of scientists around the world for her work in genetics, and the respect of students and faculty for her careful attention to detail.

She comes equipped with the mind of a scientist, heart of a mom and hands of an Aggie.

“The part that is so endearing is that Noelle comes in to work all summer long with garden-stained and calloused hands,” Anderson said. “It doesn’t matter to her who she is meeting with. It simply represents who she is — a hardworking person who has a love and respect for the land.”

When Cockett took to the stage to deliver her inaugural speech, she expressed how honored she felt to be part of the evening’s celebration and proud to be part of USU — Utah’s land-grant institution. She said she had been told the event was “to honor the university — *not me* — but I’ve been hearing a lot of things about me, so somebody wasn’t telling the truth!”

Truth be told, the university was honored that night through adulations, affirmations and music (who could forget the bellow of the bagpipes from the back of the theater in their rousing call to “Show me the Scotsman!”). It was an evening that celebrated a new president, while summoning the 15 who preceded her and the nearly 130-year land-grant legacy over which they have presided. For what are any of these scholars and heads of academy if not *for* the pillars of education, research and outreach that have braced and defined this uniquely American university system?

“USU has defined these principles as learning, discovery and engagement, and we measure and evaluate ourselves through these core themes, which are deeply and appropriately intertwined,” Cockett said in her address.

As president of a land-grant institution, founded on broad educational access, Cockett said she is committed to growing scholarship funding — especially for first-generation and underserved students. She declared that a major effort for her in the coming years will be to expand student learning experiences.

No wonder she reveled in the students who joined her for ice cream on the Quad the day of her inauguration. They are her priority. If getting creative with new combinations of ice cream ingredients and flavors is any indication, students seem equally fond of their new president. They created, in her honor, a special inaugural ice

An Evening of Firsts From **COWBOY BOOTS** to *High Heels*

By John DeVilbiss



President Noelle Cockett delivers her inaugural address.

cream consisting of peanut butter, a ribbon of chocolate fudge and chocolate-covered pretzel nuggets.

"It was an obvious hit given that 1,000 cups were given away in 25 minutes," Cockett recounted. "I will cherish the sight of 1,000 students enjoying a cup of ice cream on a sunny spring day on the Quad."

She also treasures her work with her predecessor, President Stan L. Albrecht.

"I've worked with Stan in various administrative roles for the last 18 years, and I couldn't have had a better mentor," she said. "Stan's various cowboy boots often worn with his suit and tie are not really my style of shoe (if she must wear shoes, she

likes them high heeled), so rather than trying to fit into those boots, I've decided to continue on the path that they have walked. In other words, I am committed to continuing the legacy that Stan Albrecht and other presidents have created for USU."

She concluded with one final vow: "As the 16th president, I promise to make you proud to be associated with Utah State University."

Trust her to keep her word. It involves Aggie-family honor. However, don't trust her to slow down anytime soon, not with that one other flaw Anderson pointed out: "She drives too fast!"

This is the woman who asks every person, all of us, to share what she's inherited and grow it into something firm and nourishing as new tomatoes harvested from her own garden.

Over that shared harvest, she may tell us how she met her sweetheart between rugby and lacrosse, how she visited her parents in Oahu every year, how she loves hosting parties, loves her mom and sisters, loves her cats, her husband, and driving very fast.

Her friends and colleagues will say she is free of judgment, accepting of others, a skier who carried her kids on her back, who is always engaged intellectually, who can give a speech without notes, without prep, who is vital to her field.

Of Balance and Grace: *The Public Face of Leadership* A Tribute to USU President Noelle Cockett

By Star Coulbrooke, Logan Poet Laureate

There are those who make
each person
in this turning teeming world

believe that they are worth
the salt the work

the true regard
afforded to a dignitary—

how it feels to be held
in such esteem—

Every person matters,
she says softly.

This is the woman who
takes off her shoes
and hands them to one
who likes her style,
wears her size, the high
strappy heels they both love.

This is the woman who
breastfed her baby at work
when she was graduate dean,
who showed her students
they could be moms and scientists
both at the same time.

This is the woman who
tries something new every year
in the garden, the woman who
sequenced the sheep genome.
Who would have known
a Montana ranch girl
could grow into CEO?

It isn't male versus female,
she insists. *It's abilities and strengths*
and asking for help when you need it.

Even with that measure
of intense and varied
life experience

how does one aspire,
transpire to such a height?

This is the woman who
transformed
a university's history—

and is changing it softly,
committed to its best aspects,
asking of it, and of us, a better balance.

How many of us know

how much it takes
to gain that kind of grace?

Star Coulbrooke, Logan Poet Laureate, May 4, 2017, with thanks to Janet Anderson, Joyce Kinkead, Lauren Skousen and Jeannie Thomas. Coulbrooke is also director of the USU Writing Center in the College of Humanities and Social Sciences.

After the university acquired the Lyric Theatre, it was refurbished in a university and community effort and reopened in 1961 with a production of *Hamlet*. The Lyric Repertory Company was formed in 1967.



A Yearlong Celebration

USU Arts through the Generations

By Patrick Williams

At 4,778 feet above sea level, elevation comes naturally to Utah State University. When you add to this the human heights achieved through the arts, it is nothing less than soaring.

Just how much art, music and literature have benefitted the university and the students it has nurtured the past 13 decades, will be on full display throughout the year as USU celebrates its “Year of the Arts.”

In 2016, six years after the Caine College of the Arts was formed, Dean Craig Jessop approached the university’s administration about declaring a yearlong celebration. The president, provost and

So what happened? *A Funny Thing Happened on the Way to the Forum*, 2014.



dean's council quickly came on board and endorsed the idea. Plans were solidified within the college and all decided that this was to be a university-wide celebration with the theme "*Arts Elevate*."

It is a year that promises to focus on showing how the arts affect individuals and add a richness to living. In this way, *Arts Elevate* is more than a slogan leading the way for the university's celebration of the arts — it is a philosophy, driving force and core value that infuses the Caine College of the Arts.

Throughout the year, the college will highlight its best and brightest in a series of performances, exhibits, concerts, lectures and symposia. The college hopes to offer entertainment while also sparking the imagination or touching the soul. Departments in the college plan signature events during the year, but the celebration is not limited to the college alone; it's a university-wide affair with other colleges joining in, including special programs at USU Eastern.

The *Year of the Arts* celebration launched July 21 at the Caine Lyric Theatre with a gala event marking the Lyric Repertory Company's 50th anniversary season.

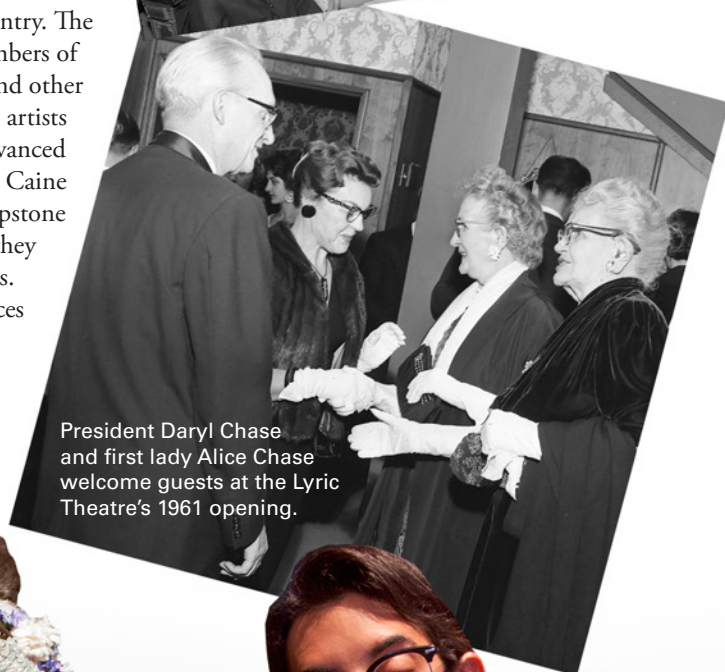
Founded by actor, director and USU theater faculty member W. Vosco Call in 1967, the Lyric Rep has produced musicals, dramas, mysteries, farces, comedies and classics to the delight of audience members from Cache Valley and visitors from around the country. The theater company brings members of Actors' Equity Association and other professional actors and guest artists to work side by side with advanced theater students from USU's Caine College of the Arts. It is a capstone experience for many before they head into professional careers.

Two special performances were presented July 21 and 22 with a combination of

It was a full house for the Lyric's grand opening in 1961.



President Daryl Chase and first lady Alice Chase welcome guests at the Lyric Theatre's 1961 opening.



A resplendent Lee Daily (third from right) and the cast from the Lyric Rep's creative take on *The Importance of Being Earnest*, 2009.



Audience favorite Stefan Espinosa from *Little Shop of Horrors*, 2011.



After a song-filled evening inside, the party at the Lyric Rep's 50th anniversary gala spilled out to Center Street for a light show, street dancing and more fun. Photo by Andrew McAllister.

video interviews and musical selections from the company's previous seasons. Luke Shepherd, a returning music director at the Lyric, conceived the evenings' entertainment that included his original arrangements of musical favorites from previous years.

In addition to a handful of 2017 company members, surprise guest performers — all popular previous company members — included Lee Daily, Stefan Espinosa, Vanessa Ballam, Eric Van Tiel-

en and Tamari Dunbar. The event, that included video segments with interviews recapping the company's history, spilled outside onto Center Street with music, dancing and a special light show.

To say the *Year of the Arts* opened with a party is an understatement.

But, the Lyric's birthday isn't the only celebration. The centerpiece for the year is another 50th anniversary — the

50th anniversary of the Chase Fine Arts Center, which was dedicated Oct. 18, 1967.

The center, which has hosted countless performances over five decades, is home of the arts at USU. It will be in the spotlight again with the opening and dedication of the Daines Concert Hall — this time Oct. 18, 2017.

The spectacular new space honors Jean and the late Newel Daines and their years of dedication to the university and community. The special event features Tony Award-winning actress and singer Kelli O'Hara, along with performances from the Department of Music and the American Festival Chorus and Orchestra. It is only natural and fitting that USU students are the first to perform on the Daines Concert Hall stage, and they will open the evening.

In addition to the Lyric's golden anniversary and dedication of the Daines Concert Hall, many more celebrations will be throughout the 2017-18 year. These can be found on a special *Year of the Arts* website (www.usu.edu/yearofthearts) created by students that spotlights coming events and activities.



Richie and Vosco Call in *The Dresser*, 2008.



The ever-popular Lee Daily from the Lyric Rep's *The Foreigner*, 2009.

A Road Well-Traveled

Farrell Edwards Retires After 58 Years at USU

By Mary-Ann Muffoletto

In 1959, when W. Farrell Edwards, physicist, joined the faculty of Utah State University, a loaf of bread was about 20 cents and a gallon of gas wasn't much more. The sci-fi thriller "*Twilight Zone*" debuted on (black and white) television and engineers developed the first microchip.

A lot has changed since those days, though what hasn't is Edwards' devotion to his students, his colleagues, his family and to USU, his academic home. But a big change came about when Edwards announced his retirement last spring from the faculty of USU's Department of Physics.

"We want you to know we are in awe of your decades of unparalleled devotion to Utah State and most especially to your students," wrote USU President Noelle Cockett and Interim Provost Larry Smith in a congratulatory message to Edwards. "Your longevity speaks to a deep passion for physics and for sharing that passion with your colleagues and students, who you have mentored and taught with never-wavering enthusiasm."

College of Science Dean Maura Hagan praised Edwards' contributions, which included his role in establishing USU's Space Dynamics Laboratory, serving as Physics department head from 1966-1971 and director of USU's Honors Program from 1988-1989. She also noted he was honored as USU's *Professor of the Year* in 1977 and received Utah's Governor's Medal for Science and Technology in 2010, the state's highest award for achievements in science.

"Yours has been a truly remarkable career and Utah State University is the better for it," Hagan said.



Way back when televisions were mostly black and white, along came W. Farrell Edwards, physicist, who joined USU's College of Science in 1959.

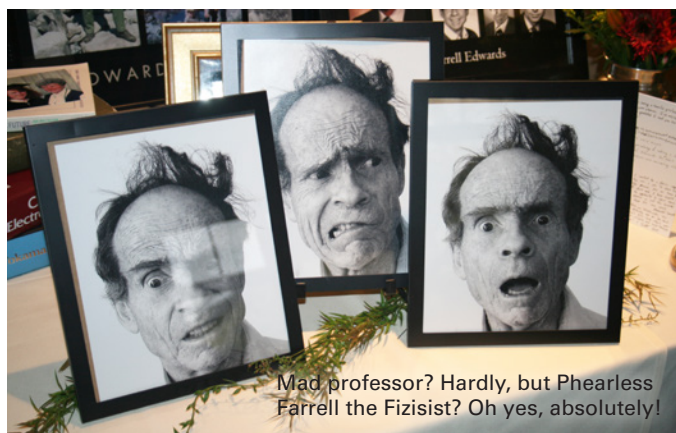
Speakers also lauding Edwards' achievements were Jan Sojka, department of Physics head, Doug Lemon, former student, retired SDL director and USU Research Foundation president, as well as colleague Doran Baker, professor in USU's Department of Electrical and Computer Engineering and director of the Rocky Mountain Space Grant Consortium. (Baker, notably, joined USU the same year as Edwards and now, likely holds the record for USU's longest serving faculty member.)

Highlights of the evening included musical and comical entertainment by Edwards and nine of his 10 children. Reprising his role as "*Phearless Farrell the Fizisist*," the orange-caped superhero persona the professor employed, starting early in his career, to ease undergrads' fear of physics, Edwards galloped to the rescue in a melodrama starring his daughter, Catherine Edwards Idso, as the dastardly villain and Sojka as a damsel in distress. (Science was saved.)

"Dad never takes himself too seriously," said his son Boyd Edwards, also a USU physics professor, who served as emcee for the evening. "He's dedicated to his students and gravitates toward original, controversial ideas for research pursuits."

The younger Edwards praised his father's teaching and mentoring efforts and recounted the story of a student, who struggled academically yet ultimately triumphed with the professor's encouragement.

"Dad praises everyone's talents and urges his students to ask deep questions, take risks, enjoy the journey and be satisfied with the result," he said. "He's a role model and a tremendous inspiration."



Mad professor? Hardly, but Phearless Farrell the Fizisist? Oh yes, absolutely!



Oh, Say Can You See?

Bear Lake Telescope Offers Clear View
of Our Cluttered Night Skies

Story and photos by Matthew Jensen

HUMANS HAVE BEEN ROCKETING THEMSELVES AND THEIR STUFF INTO SPACE FOR MORE THAN HALF A CENTURY. THE SATELLITES AND SPACECRAFT WE LAUNCH INTO ORBIT MAKE LIFE BETTER HERE ON THE GROUND, AND THEY TEACH US FAR MORE THAN WHAT WE COULD LEARN HAD WE STUCK CLOSER TO HOME.

But after a few decades of space launches, the nuts and bolts of yesterday's rocket missions are beginning to accumulate above our planet. NASA describes this so-called orbital debris as any man-made object orbiting the Earth that no longer has a useful purpose. Traveling up to 17,500 miles per hour, even the tiniest speck of space junk is a threat to functioning spacecraft. The catastrophic collisions depicted in science fiction films are exaggerated, but experts say the possibility of impact is a very real concern.

Researchers at Utah State University recently completed the installation of a specially-constructed telescope designed to monitor orbital debris. The project is part of a growing international effort to keep closer tabs on the space junk that poses a serious threat to defense, communication and weather satellites and human spaceflight.

The Utah State University Space Situational Awareness Telescope for Astrodynamics Research, or USU-STAR, is an astrograph-type 10-inch aperture telescope built specifically for spotting space debris only a few inches in diameter.

"It has a 1.5 degree field of view, which sounds very narrow, but it's actually quite wide," said David Geller, an associate professor of mechanical and aerospace engineering and lead researcher on the USU-STAR program. "This isn't the type of telescope we would use to see distant galaxies. It has a very wide view so we can see objects tracking across the sky."

The telescope's new home at the Bear Lake Observatory in Rich County, Utah, provides an ideal setting. Perched above

the foothills west of Garden City, the site features high elevation, limited light pollution and low humidity.

Each week, researchers send the telescope a list of objects to track. The telescope captures approximately 500-1,000 images per night depending on the time of year. Each image provides data about an object's position. Observing how the position changes over several images allows researchers to determine the object's velocity and trajectory. Knowing an object's location and trajectory in space is key to avoiding collisions.

"There are tens of thousands of objects out there and someone has to maintain a catalog of position and velocity of all those items," said Geller. "Knowing an object's position and velocity is the first step. If we don't do that first step well enough, we can't do any of the additional steps that tell us where that piece of debris will be at some future time."

The telescope will serve two key functions: first, to track and catalog known objects, and second, to help USU researchers validate and improve the scientific theories and technologies used for space surveillance.

Geller says data obtained from USU-STAR will help researchers around the globe improve the methods used to mitigate the problems associated with orbital debris. He says a better understanding of space surveillance is key to preserving near-earth space as an important and functional natural resource.

Earlier this summer, he and his student Akhter Mahmud Nafi and a team of support technicians visited the telescope to fix the usual software glitches and technical bugs common to such a complex instrument. After tweaking the countless cables and connectors that make USU-STAR come to life each night, Geller brought out one of the most important tools in the space surveillance trade – a wet/dry vacuum.

"Dust is the last thing we want around the telescope," he said, vacuuming inside the retractable dome that houses the telescope.

USU-STAR is the second telescope dedicated to debris mitigation at a civilian university in the United States, and the first west of the Mississippi. USU-STAR will also provide hands-on experience for USU aerospace engineering students.

Small Satellites – Big, Big Deal at USU

By Eric Warren

In 1957 the Soviet Union launched Sputnik 1, the world's first artificial satellite. Thirty years later, Utah State University launched its first small satellite conference in partnership with the American Institute of Aeronautics and Astronautics.

While Sputnik only lasted a year in orbit before re-entering and burning up in the Earth's atmosphere, USU/AIAA's internationally recognized SmallSat Conference — now 30 years later — lives on. The popular convention, which attracted around 2,500 participants this year, recently wrapped up its 31st week-long gathering on August 10. This year's keynote speaker was Robert Cardillo, director of the National Geospatial-Intelligence Agency. If you missed it, there is always next year, for like any trusty orbiting body, what goes around comes around with the 32nd proceeding already scheduled for Aug. 4-9, 2018.

This stellar mid-summer event greets visitors with banners lining 400 North and announces its presence on the Quad with its giant shell-white tent tautly staked. Those attending this year's conference came from more than 40 countries representing some 600 organizations. As a space-grant university, USU is recognized as a leader in the research and development of small satellite technologies and has become the annual hub for industry experts to discuss trends in the industry. This year's discussion revolved around the theme, "Small Satellites – Big Data."

It is a big deal, especially when you consider that 2,271 satellites — large and small — are currently circling the globe, according to the Goddard Space Flight Center. Technological advances and market-driven applications are motivating broad government and commercial investment in small satellites. That is because small satellites are enabling an immense diversity of measurements and observations with clear prospects for developing a new, expanded and timelier understanding



With an eye to the sky and a nose for debris, USU-STAR's 10-inch aperture telescope scans the heavens. There are millions of small pieces of orbital debris, including approximately 20,000 pieces larger than a software.

“WE ARE WITNESSING A TRANSFORMATION OF SPACE, MOVING FROM ALMOST EXCLUSIVELY LARGE SATELLITES, TO AN ARCHITECTURE THAT ALLOWS BOTH SMALL AND LARGE SATELLITES TO WORK TOGETHER IN WAYS THAT HAS NEVER BEEN SEEN BEFORE.”

— Pat Patterson

of our world. Think of them as knowledge products. But before such products can be further developed and honed, the challenges of collecting, transmitting, managing, manipulating and interpreting data streams must be overcome.

“We are witnessing a transformation of space, moving from almost exclusively large satellites, to an architecture that allows both small and large satellites to work together in ways that has never been seen before” said Pat Patterson, chair of the SmallSat Conference. “Small Satellites can serve to complement their larger counterparts, or in some cases act independently to perform a variety of missions from Earth imaging to making science measurements that helps us better understand our world. These small satellites have the advantage of being able to inject technology advancements on shorter timeframes, at costs that are lower than larger systems.”

The ability of small satellites to enable big data applications is fundamentally based on systems engineering that draws from the rich technology developed within the small satellite community. During the 31st AIAA/USU Conference on Small Satellites, participants engaged the many visionaries and stakeholders involved across the entire chain responsible for ultimately disseminating information to feed a data-hungry global market — a market that 30 years ago USU and AIAA visionaries first began to imagine.



USU's GEAR UP high school and middle school students from across Utah are looking up — way up — in a once-in-a-lifetime satellite conference call with astronauts orbiting the Earth in the International Space Station. Find the passion that lights a fire in your souls, Flight Engineer Jack Fischer tells the students. (Space Dynamics Laboratory photo)

Space Station Astronaut to Students: Dare to Dream!

By Rebecca Dixon

Who better to ask about living in space than an astronaut orbiting the Earth in the International Space Station?

More than 200 Utah State University GEAR UP high school and middle school students from across Utah got the chance to do just that during a live conversation with the astronauts in the space station on May 19. Talk about gaining early awareness and readiness for undergraduate programs. GEAR UP lives up to its acronym.

Credit, as well, should go to USU's Space Dynamics Laboratory that collaborated with U.S. Senator Orrin Hatch and NASA to make the live space conversation possible.

Orbiting approximately 250 miles above Earth, space station Commander Peggy Whitson, who in April broke the record for the longest time spent in space by any American, and Flight Engineer Jack Fischer answered questions from middle and high school students during the live downlink transmission where students interacted in real time with the astronauts.

“If you could give advice to your 17-year-old self, what would it be?” asked Jason Shepherd, a student from Wendover High School.

Fischer replied with the advice his father gave him:

“I dare you to dream — the ‘dream’ part is finding the passion that lights a fire in your soul,” Fischer said. “You have to define that for yourself. The ‘I dare you’ part is the hard work; no one will give it to you. If you don't work really, really hard, it's not going

to happen. So define that dream... and then follow it with all you got!"

Zayhetzi Nunez, a student at Logan's InTech Collegiate High School, asked, "What weird stuff have you seen in space?" As Whitson laughingly pointed at Fischer, he replied, "Everything! Sitting on the ceiling, eating pudding squeezed out onto your spoon like a gelatinous mountain — there are so many different opportunities for you to stretch your mind, re-define reality and just grow as a human — I absolutely love this place."

Another highlight was watching Fischer squeeze fruit punch out of a packet where it formed into balls as he drank it right out of the air. These spacewalkers clearly enjoyed entertaining, educating and inspiring their audience.

"It was life-changing for these students," said Heather Hafen, a site coordinator with USU's GEAR UP program. She became emotional as she spoke about the impact of the event.

"Many of these students are economically disadvantaged, and to witness this today changes how they see themselves," Hafen said. "They have now seen up close that there is a whole world out there — they can reach out and do more than they have imagined."

A whole world and a whole lot of space, thanks to NASA, said Beth Foley, dean of USU's Emma Eccles Jones College of Education and Human Services.

"The importance of STEM education in Utah, and across our nation, is highlighted by the amazing job NASA does to consistently engage with students at an early age," she said. "We are grateful for the leadership of both Sen. Hatch and NASA who have enabled us to reach STEM students throughout Utah with this unique opportunity to interact with the astronauts."

Hatch had glowing words for USU, as well.

"Utah State is one of the leading space-grant universities," he said. "It's an honor that our state was chosen to host this special event, which will only strengthen the natural partnership between Utah's STEM workforce and the U.S. space program."

SDL-Supported Small Sat Launched from International Space Station

By Eric Warren

It is all about defying gravity when it comes to shooting objects into space, so why not get a jump on it by launching one intended orbiter from another that is already circling the Earth? The International Space Station, for instance.

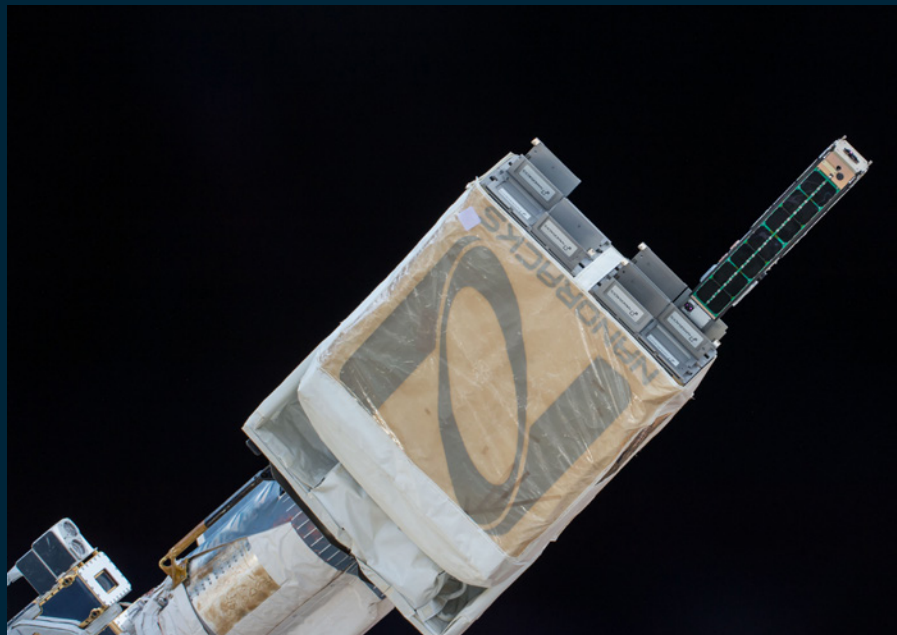
That is precisely what the Air Force Research Laboratory (AFRL) successfully did in May when it deployed its Satellite for High Accuracy Radar Calibration, also known as SHARC, into a low-Earth orbit from the International Space Station. It was a successful event equally celebrated by Utah State University's Space Dynamics Laboratory, developer of the satellite's flight software and radio interface circuit board. SDL also provided fabrication and assembly expertise for the SHARC's main subsystems.

To get to the space station, SHARC, the size of a breadbox, hitched a ride aboard a United Launch Alliance Atlas V 401 rocket as part of the Orbital ATK-7 mission. So far the satellite seems to be performing as expected, said Lance Fife, SDL's director for strategic and military space.

SDL developed the SHARC satellite flight software that monitors and controls all aspects of the satellite. The software is based on innovative modular technology sponsored by AFRL that enables the software to be rapidly configured to support various satellite components and payloads.

SDL also developed the ground system software used to communicate with the satellite. This software is used for mission planning, to uplink commands to the spacecraft from satellite operators and downlink satellite bus and telemetry data. The ground system software provides operator displays and initial processing of satellite data.

Defying gravity is one thing, defying the odds of keeping an object viably in orbit is quite another — the very thing that gets SDL rolling up its sleeves.



A circling SHARC floats in space, thanks to the successful deployment of the Satellite for High Accuracy Radar Calibration by the Air Force Research Laboratory. USU's Dynamics Laboratory developed the SHARC flight software, radio interface circuit board and provided fabrication and assembly expertise for satellite's main subsystems. (NASA photo)

FINDING HIS PLACE

A USU Vet's Journey from Combat to Classroom

By Jackson Wilde

AUGUST 15, 2008, SERGEANT KENNETH CHRISTIAN RAY ANDERSON FOUND HIMSELF LYING ON THE GROUND IN THE CITY OF SAMARRA, IRAQ. HE HELD HIS ACHING HANDS UP TO THE MOON'S EFFULGENCE — ALL HE SAW WAS BONE.

"I literally had no skin on my hands," Anderson recalls.

There were no warning signs, no firefight prior to the explosion and no retribution. Anderson and four other U.S. Army servicemen, along with an Iraqi interpreter, had been heading back to base from a census operation in Samarra when a rocket-propelled grenade — an RPG-4 or RPG-7, by Anderson's estimation — blasted through the sidewall of the group's Mine-Resistant Ambush Protected (MRAP) truck.

The assailed MRAP caught fire with Anderson inside and unconscious.

"When I woke up, we had to get out of the truck," he says. "When I touched the metal to these doors my hands literally just melted off."

The blast from RPG had all but sheared off his right leg near the knee and severed his femoral artery near the hip. He had third-degree burns on his scalp and face, but only noticed his grievously burned extremities.

"I remember a platoon sergeant coming up, 'Anderson, how you doing,'" he recalls. "I think I f***ed up my hands sergeant."

Aided by the embrace of a sugar-coated fentanyl lollipop, Anderson was trucked out to a helicopter zone. Soon thereafter, he began refusing pain medication.

"The fact that I felt pain, I knew that I was alive," he says. "When you give morphine to guys sometimes, they basically die because the pain goes away and they stop fighting."

Anderson woke from a medically induced coma in Texas nearly a month later.

"I freaked out," he recalls. "The last thing I remember, I was in a combat zone."

He immediately asked his wife for his weapon. She gazed back and explained it had melted in Iraq.

For the next four months, Anderson completed a grueling series of physical therapy for his injuries, skin grafts for his hands and chemical peels for the burns on his head.

He was medically discharged from the army and awarded the Purple Heart for his service — a depiction of which is tattooed on his inner bicep.

During the hospital stay, Anderson made a pact between his father to use his GI Bill for college — and that's precisely what he did.

"I made a promise," he says. "Now, if I can quit smoking that easily."

He began pursuing a bachelor's in history at Hopkinsville Community College in Kentucky before transferring to — and graduating from — Utah State University. While striving toward his degree, and handling his transition to civilian life, a serious health crisis struck his family.

On Feb. 27, 2014 — three days after their wedding anniversary — Anderson's wife suffered an overdose of prescription medications. The brain damage she suffered was severe.

"I have a wife that I can't really even carry on a conversation with anymore,"



It has been an arduous journey from Iraq to Logan for Sergeant Kenneth Christian Ray Anderson. University resources, such as USU's Veterans Resources Office, are in place to help the university's 500 veterans transition from combat to classroom.

Anderson says. “She’s just not mentally there.”

Despite her limitations, Anderson says she sends him an average of 50 to 60 text messages per day from her long-term care facility. Some days he receives nearly double that amount. While some messages are incomprehensible, others are as simple as asking for a prayer — and pray he does.

Despite his life’s inimical hurdles, Anderson is generally upbeat and optimistic — an attitude he attributes to having goals to work toward. “If they (soldiers) don’t leave the army with some kind of goal in mind,” he says, “then I think they struggle.”

He is now eyeing a new mission — attending graduate school at Utah State University. He loves to learn and says he looks forward to continuing his college career.

But after training for a life in combat, integrating into the classroom can be a slog for a significant number of veterans. The slower-paced civilian lifestyle, general age difference and feeling of disconnectedness on campus can deter many veterans on the road to furthering their education.

These struggles can stifle answers to a crucial question. A question Anderson

believes many veterans experience when transitioning to life outside the military. “How do I leave the army and make something of myself?” Anderson says.

Us Vs. Them

“His story is very common, with the exception of the wife,” says Corporal Justin Bishop, who served eight years in the U.S. Marine Corps.

Bishop, now a student coordinator and peer support specialist for Veteran’s Integration To Academic Leadership (VITAL) at USU, says military culture and age differences can be barriers for veterans trying to relate to their peers in college.

For Anderson — though he enjoyed his time at Utah State — the age gap on campus was trying. He was 35-years-old when pursuing his bachelor’s with peers in their early twenties.

“Their best stories are coming out of high school,” Bishop says. “A veteran — their stories relate to their military experience.”

Leaving the military feels like an extraordinary loss for many veterans, Bishop says. Losing the military camaraderie can also be a barrier for veterans transitioning to the classroom.

“If I were to try and explain it,” he says. “Think of it as losing a brother or a sister — someone you grew up with — and that support system that you had.”

The absence of such support affected Laura Poppie, a peer mentor at VITAL, when she enrolled at USU.

After serving five years in the U.S. Air Force with her fellow service members, Poppie initially struggled to integrate to campus life.

“My first year here was pretty rough,” she says. “I didn’t know anyone, so that was kind of hard.”

The structured lifestyle the military provides was another hurdle when transitioning into collegiate life.

“For me, I think there was all these options all the sudden,” she says.

Bishop says the communication gaps between veteran and peer spawns from a lack of understanding — encouraging an “us-versus-them mentality” that can be another barrier for veterans in the classroom.

“The civilian side, they just don’t understand,” he says. “They don’t know the military culture.”

Barriers to Veteran Resources

Though these struggles affect many veterans attending USU, very few ask for help. Bishop believes veterans do not use resources, in part, because they don’t know that the resources exist, but also because of stigma. He estimates only 10 percent of Utah State’s veterans utilize resources on campus.

Anderson says he never used campus resources because of his strong desire to succeed on his own. In hindsight, however, he says using resources would have been beneficial for his academic pursuits.

“I think a lot of veterans don’t,” he says. “They view asking for help as a weakness.”

Bishop says the fear of appearing weak halts many veterans from coming into his office to ask for help. And the veterans who do ask, usually will not a second time. “We have one shot.”

Making their one shot count requires having an efficient and inviting office to facilitate USU’s 500 veterans.

Tony Flores, a veteran and the program coordinator for USU’s Veterans Resources Office, says the VRO spans 600 square feet — a space too small to fully accommodate the university’s veterans.

Military culture and age differences can be barriers for veterans in college says **Corporal Justin Bishop**, who served eight years in the U.S. Marine Corps. He is now a student coordinator and peer support specialist for Veteran’s Integration To Academic Leadership (VITAL) at USU.

Vice President for Student Affairs James Morales says USU's VRO will soon be relocated to a larger office in the Taggart Student Center — a space more than three times the size of the current office.

"I've already signed off on it," Morales says. "It's a done deal." Though the time frame is not concrete, he says he hopes the move will be actualized this fall semester.

Bishop says a larger space will encourage veterans to come forward and use resources — allowing the VRO and VITAL to better assist veterans and thwart the barriers they face on campus. "If we had better office space that was more welcoming, they (veterans) would feel like they could utilize it more."

Soldiers train for combat. They do not train, however, for the transition to civilian life after military service. Bishop says admitting there is something wrong and seeking help can be one of the hardest things a veteran will ever do.

"The most courageous veterans are the ones that admit that there's something wrong," he says. "That takes a lot more courage to do than to go into combat."

Back to School

Anderson plans to take his Graduate Records Examination and go to graduate school in 2018, pursuing a USU master's in history. With his GI bill used up, he plans to apply for scholarships for veterans to help foot the tuition.

Going back to graduate school could take away time normally spent with his wife — either watching movies in her room, driving the back roads of the Uinta Mountains, or simply spending a Saturday afternoon together in the home they used to share.

He recognizes his road has been hard, but it has never stifled the positive outlook ingrained in his character. Instead of focusing on negativity, he enjoys the unrefined joys he sees around him — because positivity lends itself to efficient healing.

He is grateful for life, because he's cheated the grave.



Whoa! Easing down the trail on a horse proves to have therapeutic benefits and USU Extension is among the first in the nation to provide equine-assisted trail rides for military veterans.

Equine Experience Invaluable for Veterans

By Julene Reese

Utah State University Extension is among the first in the nation to provide equine-assisted trail rides for military veterans.

The program, Ride Utah, introduces military personnel to the therapeutic benefits of equine-related activities. It started nearly two years ago, and to date, 15 rides have taken place around Utah, with 15 more planned.

Karl Hoopes, USU Extension equine specialist, began the equine-assisted therapy rides for veterans in the fall of 2015 as a way to help military families cope with the challenges they face. He said horses have the ability to detect underlying energy and emotions in a way no other animal can.

"With these rides, we don't offer a lot of instruction on riding etiquette," he said. "It's not about the horse, it's about the individual's experience with the horse."

Hoopes said participants are invited to bring one guest with them, and the ride is kept to 10 people. When the ride is completed, a licensed professional leads a discussion with the veterans to help them process their experience.

"Many veterans have trust issues after being in combat, and once home, they have to learn how to develop that trust again," he said. "Several participants have noted that learning to rely on a horse they don't know has helped them as they are then taught to transfer that trust to people. The program has proven very beneficial for marriage and family relationships."

Hoopes said he was recently contacted by the Warrior Bonfire Program asking him to coordinate an equine trail ride for a two-day event held locally for six Purple Heart recipients.

"It was a very neat experience, and I felt privileged to be part of a program that gives back to those who have given so much to our country," he said.

Hoopes said equine-assisted therapy has also been shown to be effective for individuals, other than veterans, who struggle with anxiety, depression, post-traumatic stress, sexual trauma, relationship difficulties and other adjustment issues.

"My goal is to make the program available in all Utah counties," Hoopes said. "A challenge we have right now is finding the right horses and being able to purchase them. Horses and equipment are a huge expense. We have received sponsor support, which has been very helpful."

To learn more about the program or to donate, contact Hoopes at 435-535-5140, karl.hoopes@usu.edu or Michelle Merrill, at 435-797-8556, michelle.merrill@usu.edu.



Forrest and Annalisa shortly after Forrest's long-awaited transplant.

LIFE LINES

GIVING AND RECEIVING THE MOST PERSONAL OF GIFTS

By Annalisa Purser

I SAT IN A FORGOTTEN ALCOVE IN PRIMARY CHILDREN'S HOSPITAL ON A TAN RECLINER SOBBING. EXHAUSTED AND DAZED, I GOT UP AND TRIED TO FIND FORREST. I DID NOT KNOW WHERE I WAS.

I had followed behind the nurses as they rushed him through the empty maze of hallways on a rolling hospital bed to a room where they filled his intestines with fluid to determine the source of his infection that was also causing his blood pressure to drop. But since I wasn't allowed in the room, I never saw them leave.

Eventually I found my way back to him. His face was contorted as though he was crying out in pain, but no sound came out. A team of medical professionals surrounded

him, sewing a medical device into his body without any anesthetics. One of them spotted me, told me I could not be there and ushered me out to where his family was waiting.

It was my first experience in a hospital — a world completely unfamiliar to someone whose most serious medical condition had been an ear infection. Three days later, I was back in Logan,

going to class, but with a sense of solitude I hadn't previously experienced. I'd left Forrest in the hospital, but I was supposed to keep going. It was a feeling that would become second nature to me in time.

Not much time to live

In 1991, when Forrest was five years old, he started sitting with his knees tucked under his chin because his stomach hurt, and he had other worrisome symptoms. His pediatrician arranged for a specialist to see him. A couple months later, he was diagnosed with a rare autoimmune disease called primary sclerosing cholangitis, or PSC, which a doctor at the University of Utah said affects only three children in a million.

The diagnosis was devastating. The only known cure for the disease, in which the bile ducts become scarred and hardened and damage the liver, was, and continues to be, liver transplantation. The procedure had been considered experimental until 1983, and even as a clinically accepted therapy for end-stage liver disease, the outcomes in 1991 were bleak.

After the diagnosis, no one expected Forrest to live very long. His parents felt like a cloud hung over them as they accepted the reality that they would soon be required to plan a funeral for their youngest child. Doctors estimated he had only a few years to live, and certainly no one imagined he would make it to high school graduation.

His life was filled with numerous hospital stays and follow-up visits, dozens of procedures and surgeries, monthly blood draws, fistfuls of medications and more than 200 kidney stones, but his will to live and positivity seemed to always prevail.

In 2004, he graduated from Cyprus High School in Magna, Utah, and headed to Utah State University in the fall to study biological engineering. Because of his exposure to the medical system, he wanted to become a surgeon, but he knew that road would leave him without the necessary health insurance coverage. Instead, he decided he wanted to develop medical devices used by surgeons.

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College years

When I met Forrest during our freshman year in spring 2005, I was blissfully unaware of his past and knew him only as a seemingly normal college student. I noticed he kept a gallon-sized Ziploc bag full of prescription drug bottles on the floor between his bed and desk, but its significance didn't register with me. I was not yet attuned to the nuances of chronic illness.

His close call with septic shock, a severe condition caused by an infection that results in death about half the time, was my first glimpse into the roller coaster that was life with Forrest. A week after that eye-opening weekend at Primary Children's Hospital, Forrest returned to campus with a tube coming out of his arm and a two-week home health regimen.

Every eight hours, he had to use a device that slowly administered a cold 60 cubic centimeter syringe of potent antibiotics through a peripherally inserted central catheter. We found it was a good excuse to spend more time together since I lived on campus and could keep his syringes refrigerated. While the home

health care option allowed him to stay in school, the interruption caused him to take an incomplete in two classes that he had to make up that summer.

The remainder of our college years involved a few more incidents like this, including a helicopter ride from Logan Regional Hospital to Intermountain Medical Center a week before Forrest was scheduled to walk at graduation for his master's in business administration. But, in typical Forrest fashion, he returned in time to toss his cap. After I finished my bachelor's degree, and before he started graduate school, we got married and spent an illness-free week in Oahu, Hawaii, in 2008. Life was good.

Unexpected symptoms

When he was younger, his PSC symptoms required frequent endoscopic variceal banding to prevent internal bleeding. By the time I knew him, he no longer needed these procedures. Instead, he began developing a whole new set of side effects as the disease advanced. In 2011, Forrest was diagnosed with hepatic encephalopathy, a brain disorder that can affect behavior, mood, speech, sleep and

the way a person moves. It occurs because the damaged liver no longer effectively removes toxins from the body. Instead, they make their way into the bloodstream and travel to the brain, where they build up and cause the associated symptoms.

I was warned things would progressively worsen before he got a transplant, but I didn't appreciate the incredibly complex functions of the body's largest internal organ. And, unlike other transplantable organs, there is no mainstream artificial substitute for the functions the liver performs. I never imagined how far reaching the impacts of the disease would be.

One time I came home to find him with his arms through his pant legs and his legs through his T-shirt sleeves. He was waiting for my arrival to help him because he could not figure out where he went wrong. More than once, I caught him seconds before his face landed in his plate of food at the table because his fatigue had essentially turned him into a narcoleptic. I learned to solve his unique riddles as he started speaking in synonyms — he often asked to eat at Town Hotel (Village Inn). When I told him about these incidents, they were nothing but blank gaps in his memory.

Turning point

As the decades passed, the field of transplantation improved dramatically. New medications designed to keep the body from rejecting the transplanted organ became available and post-transplant mortality rates were decreasing. But other aspects of transplantation were less encouraging. Since 1991, the number of people on the national transplant waiting list increased 426 percent, to nearly 120,000 individuals, while the number of donors grew at a quarter of the pace. Because of this disparity, an average of 20 people died every day while waiting for an organ transplant. As Forrest grew weaker, I feared he might become one of those 20 people.

By early 2014, I was desperate. I was watching Forrest die right before my eyes. I had an overwhelming feeling of helplessness knowing his only chance at

Forrest and Annalisa in 2010 celebrating Forrest's graduation from USU's MBA program.



survival depended completely upon the selflessness of strangers and a national transplant system that had the unenviable task of determining who is best suited to receive the precious gift of a human organ. Pairing donor livers with recipients is a complicated process that involves matching blood type, size and other medical criteria, while also considering the health of the recipient. The person must be sick enough to be prioritized on the waiting list, while not being too sick to recover from the difficult surgery.

Forrest had been waiting on the transplant list in Utah for close to eight years, but the demand in the geographic region made it clear he wouldn't be offered a life-saving transplant soon (enough).

Fortunately, or unfortunately, depending on your perspective, there was one thing that had not changed since liver transplantation became a reality — geographic regions. These ultimately became connected to how available livers were distributed to those in need. After delving into the details, Forrest and I determined he would have a better chance of receiving a transplant across the country in Indiana. We worked out the details with our insurance provider, employers, doctors and families, and in September 2014, we boarded a plane with one-way tickets to Indianapolis, Indiana.

I laid in bed staring at the street lights glowing through the sheer hotel curtains. It was the most surreal moment in my life, and I had to acknowledge that I was not in control. I left my home to live in a hotel in a place I'd never been without an idea of how long I would be there and if this whole affair would even result in what we came for: A chance at life. I looked around at the generic artwork, salmon-colored drapes and textured ceiling. This was my new home.

Road blocks

Each transplant center has its own criteria for listing patients for transplant, so the next couple months were full of doctor appointments, scans, X-rays and visits with social workers, psychologists, financial counselors and more. Forrest



Annalisa saying good-bye to Forrest outside the operating room moments before his organ transplant surgery.

fell asleep between appointments, and we ate all our meals in the hospital cafeteria since we did not have any food at the hotel.

What we assumed would be a smooth process, turned into a series of setbacks. First, the transplant team determined that Forrest needed to be listed for multiple organs instead of just a liver. Complications from living with the disease for so long resulted in a blood clot the team was concerned could cause problems during the operation. Therefore, they would only move forward with listing him if they had the option of transplanting additional organs if that became necessary. During the even

more comprehensive work-up required for multi-visceral transplant candidates, cancer was found in his thyroid.

In the midst of these developments, I became overwhelmed with emotion one night. Out of nowhere, I was struck with grief about the passing of the person who would become Forrest's organ donor. I felt the utter despair of losing a loved one. I wept uncontrollably while I mourned the loss of someone I had never met. I felt the heartache of losing someone precious — losing their smile, their conversation and their ability to brighten the day. I grieved until I was exhausted and fell asleep.



Forrest in the ICU after his liver transplant surgery. He was the last to learn that he didn't have a multi-visceral transplant and received a liver only.

The next day, Forrest was officially added to the transplant list after the results of his thyroid removal confirmed that he was clear of cancer. We made it through just one uneventful day before we got the call he had been waiting to receive for nearly his entire life: "We may have organs for Forrest. Can you be to the hospital in an hour?" Twelve hours later, at 8:30 p.m. on Saturday, Nov. 15, 2014, he was wheeled into the operating room for six hours of life-saving surgery.

Thanks to our donor

The surgery was successful, and through their skillful efforts, the surgeons were able to transplant just a liver without need for any additional organs. He had a complicated recovery, requiring us to stay in Indiana nearly six additional months. Even after returning home to Utah, his recovery continued on its twisted path. He fought organ rejection multiple times, a variety of infections, additional surgeries and worked to build stamina and strength for more than two years after the transplant.

With such a long detour, there might never have been a person more excited to drive a car, lift things heavier than a gallon of milk, mow the lawn, empty the dish-

washer or go to work, than Forrest. He returned to work as a quality engineer for a medical device company in April 2017.

As for me, I have taken advantage of having a partner who can help with everyday, mundane tasks, and have filled the void of caregiving with part-time graduate school when I'm not working. I am studying transplant policy to better understand the history and intricacies of the field. I'd like to make things better for those just beginning on the journey we've been through, but I've also discovered a true passion for simply learning about the topic.

Because of someone who left this life and gave one in the process, we are here. We are happy. We are grateful. We are learning, growing and living a life full of love.

Become a donor

To register to be an organ donor, visit donatelife.net.

The Inner Side of Love

By Joshua Paulsen

Jared Saunders felt a special closeness to his mom, Susan, when they attended Utah State University together in 1996.

Not to be outdone by her son, Susan decided, at age 40, to return to USU to complete her degree. But the bonds of love shared by this unusual pair would deepen even more 20 years later when Jared donated 75 percent of his liver to save his mother's life.

It seems commonplace for a blood relative to serve as an organ donor, but when you look at the circumstances surrounding Susan's donation, the outcome is remarkable. Jared is gay, and until recently, the U.S. Food and Drug Administration prohibited him from donating blood, let alone an organ. He also wasn't a light drinker.

When someone thinks of a damaged liver, they often gravitate to alcohol abuse as the source. Susan had severe liver damage but had never had a drink in her life, except for "that one time," she says. "When I was younger I had a square of German chocolate that was flavored with pear liqueur. It was so good I decided to have a second piece. That must have been my downfall," she recounts jokingly. Susan's condition was actually brought on by a lifelong battle with colitis. Primary Sclerosing Cholangitis (PSC), the disease that rendered Susan's liver inoperative, causes irreparable scarring to the liver.

While her family was aware of her disease, Susan kept the severity of her PSC from them. This provided Jared, who had been living in Chicago after graduation and running a brewery, with ignorant peace of mind, but put Susan's chances for recovery at risk when her liver was only months away from complete shutdown.

"One of the things that people don't understand about live organ donation is that, because of ethical concerns, organ recipients need to be cautious when ap-



That special mom and son bond that Jared and Susan Saunders share goes even deeper. They also share a liver.

proaching friends or family to donate,” Susan says. “The waiting list for my particular center was discouragingly long. The rules specified that if I reached out in desperation to others, it could be viewed as coercion and I might be removed from the waiting list altogether.”

Jared’s siblings, who live closer to Susan, witnessed her deteriorating condition. Each of them privately discussed donating their livers, but because of their family circumstances, the intensity of the operation and recovery time, Susan was reluctant to have them assist and turned them down.

As anyone who has undergone the procedure will attest, a live liver donation is not a trivial undertaking. It is as taxing, emotionally and physically, on the donor as it is for the recipient. Both par-

ties undergo huge abdominal incisions. They each live for months with limited liver function until it regrows. The worry that comes from wondering if both will fully recover, hangs over their heads for months, if not years.

Jared got word of her condition and ultimately breached the topic of liver donation over the phone. Given and received like a heartfelt marriage proposal, Susan simply said yes. “I knew that it was the right match,” she says.

But was it? On paper, Jared’s overall physical condition made him less than a sterling donor candidate. He knew he had to make some health changes — and quickly. In anticipation for going under the knife, he began working out, improved his diet and cut back on his alcohol consumption.

When he apprehensively approached Susan’s doctors for a battery of bloodwork and imaging to assess his candidacy, there was collective relief. His change in lifestyle benefited his liver — he was in perfect health. But what about the organ coming from a gay person of a different gender? The body is not that discriminating.

Susan’s operation was a success, but she still copes with colitis and has significant side effects from the required post-op medications. Jared has since moved from Chicago to Cache Valley where he cares for his mom while she recovers. Now they share much more than a graduation year and USU degree. “Their liver,” as they call it, has connected them physically and emotionally in a way that few experiences can.



Linda Alsop (right) with Brenda Willets and her twin sons, Bradley and Brady. Both boys were helped by SKI-HI during a critical time in their development. Early intervention is essential for children with combined vision and hearing loss when the brain is still developing and it has the best chance to establish new pathways.

BREAKING THROUGH

USU Pioneers Program that Intervenes for Kids with Sight and Hearing Loss

By JoLynne Lyon

UTAH STATE UNIVERSITY WAS INFLUENCING ANDY PROUTY'S EDUCATION SINCE BEFORE HE CAN REMEMBER — AND HE, IN TURN, WAS MAKING AN IMPACT ON UTAH PROGRAMS.

In 1985, when he was three, Andy and his father, Mike, testified before the Utah Legislature about the need for teachers trained in educating children with both sight and hearing impairments. Andy was one of those children — he had severely limited vision

and relied on sign language to communicate.

Since then, Andy and his family have moved to other states. He currently lives in Minnesota where he has his own apartment, a full-time job and a nearly completed bachelor's degree. Technology has opened up new ways for him to interact independently with the world.

But his education began when state supports for deafblind education programs were awfully thin nationwide. It was rare to find educators trained to serve children with combined vision and hearing loss.

"This was before the Internet," said his mother, Sally. "I didn't even know how to get phone numbers [of people who could provide services.] Actually, we started writing letters."

Soon after learning she was the parent of a child with vision and hearing loss, Sally became a self-styled advocate. The family brought in people to interact one-on-one with Andy, using sign language. These specialized paraprofessionals, called interveners, worked with Andy in a way similar to how Anne Sullivan worked with Helen Keller. The Proutys paid for the help on their own, but when they learned of an opportunity to receive intervener services through SKI-HI Institute at Utah State University, the family moved from Oregon to Utah.

Though they were lobbying the Utah Legislature for better opportunities in 1985, the Proutys recognized that Utah had already made strides in education for children with sensory impairments, thanks to work by SKI-HI Institute and its founder, Tom Clark. SKI-HI was established within the Communication Disorders and Deaf Education department. It is currently part of the Center for Persons with Disabilities.

Andy was in Utah when he was aged three to six, and while there, his early education was in full swing.

"My parents received in-home parent advisors, which was really helpful to them," Andy said in an email interview. In addition, "I went to school with children who used sign language and the teachers used sign language as well." Andy could see the signs if he was within one or

two feet of them.

Andy's interveners helped him learn things other children might take for granted: how clean clothes got in the dresser drawer, how they were washed with soap and water in a washing machine, how wet clothes became dry. "The whole time, they were teaching him vocabulary," Sally said.

Her son's story is a pioneering triumph. Unfortunately, even today, children who are deafblind or who have both vision and hearing impairments face some big obstacles on the way to independence.

"They are very poorly understood, and their needs are very high, and education has not been great for them," said Linda Alsop, SKI-HI's current director of deafblind programs. "We don't have great outcomes as far as what we see in adult life."

So much of a child's knowledge of the world is relayed through sight and hearing, and their absence or reduction can be an enormous barrier to development and education. SKI-HI's focus continues to be on improving the odds for children with vision loss, hearing loss or a combination of the two.

Interveners continue to provide critical services to deafblind children: services that cannot yet be replaced by technology, Alsop said.

"We've done a lot of work nationally to make people aware of what interveners are, to help parents understand the need," she said. "We've changed the law in Utah and things are rolling well, but many states are still struggling with this practice."

SKI-HI has worked hard to change that. In addition to establishing certification standards for interveners, it provides curricula, materials and distance training to parents, professionals and paraprofessionals in blind/visually impaired, Deaf/hard of hearing and deafblind education.

Its team of professionals' influence



Andrew Prouty was born with severely limited vision and relied on sign language. His family moved from Oregon to Utah for one reason: SKI-HI Institute. The institute's specialized paraprofessionals, called interveners, worked with Andy in a way similar to how Anne Sullivan worked with Helen Keller. Today Andy has nearly completed a bachelor's degree in Minnesota, where he has his own apartment and a full-time job.

is felt in all 50 states and in six foreign countries. It supports programs nationwide, works with many nationally prominent organizations supporting people with sensory impairments and fosters a thriving deafblind family network.

Part of the challenge is just understanding the population they serve, and its needs. Only a small percentage of the population is deafblind, which makes studying them that much harder.

"There are no test results that evaluate them because they can't communicate," Alsop said. "They're undervalued, they're underestimated."

And often, they are frustrated and angry — like Helen Keller was when Anne Sullivan began tutoring her in the 1880s. But Anne Sullivan made such progress with Helen Keller more than a century ago. Why is deafblind education still such a challenge?

"Helen Keller was kind of unusual," said Elizabeth Dennison of SKI-HI, a teacher who has worked with children with vision loss for 40 years. Keller had two years of typical development before she lost her eyesight and hearing. Many of the children Dennison works with have had sensory impairments since birth, and they often have other disabilities as well: feeding difficulties, cognitive impairments, motor challenges.



Maria Reed holds her son, Chase, on her lap. Elizabeth Dennison plays with the slinky. She has worked with children with vision loss for 40 years. Chase, who is 2 ½-year-old, has been learning to use his limited vision, thanks to the pioneering work of SKI-HI. Dennison introduces him to toys that encourage him to track movement and make the most of what he sees.

"The vision and hearing loss make it worse," she said.

Brenda Willets, a mother of twins who have both received services from SKI-HI, knows how complicated sensory impairments can be.

"I think a lot of people don't realize that your eyes have to be able to see, but your brain is what sees," she said. Her twins, Brady and Bradley, were born with cerebral palsy, caused by twin-to-twin syndrome. They came into the world via an emergency C-section that was the first of many medical events in the Willets family life.

Brenda contacted Utah State University to find out more about available services for her children before she brought them home from the hospital, and soon after her boys were home, both Alsop and Dennison were visiting the family, providing services.

"They would come to teach me how to stimulate the boys' senses," she said. "Their vision, their hearing. ... They were both so good at therapy, but also stimulating the brain."

Willets, Alsop and Dennison all agree: early intervention is critical with children with combined vision and hear-

ing loss. If they have partial hearing or vision, those first years are the time to learn how to maximize those senses, when the brain is still developing and it has the best chance to establish new pathways.

Both boys had vision and hearing loss, but Brady's was more severe. Because of Brady's difficulties processing sound, the Willets family decided cochlear implants were not an option for him. Meanwhile, they absorbed

SKI-HI's particular blend of science and caring.

"It wasn't, 'They can't do this, they can't do that,' it was, 'Let's see what they can do,'" Brenda said. "One of the biggest things that I loved about having them come to my home was they would give me so much hope... It wasn't just Brady and Bradley they were trying to help. They were trying to help us as a family unit." In addition to the twins, the Willets have three other children.

The Willets family worked with SKI-HI until their boys were three years old and went into the public school system. After that, they stayed in contact for support on their children's individual education plans. Today, the 13-year-old boys are both in public school. Brady has an intervener who, as Brenda puts it, helps bring him the world.

Interveners play both an educational and a social role with Brady. "They involve him in so many things," she said. "Everything they possibly can, they involve him in."

Andy, too, has remained in touch with SKI-HI, though his public education days are long over.

"Last year I did an independent

study through Metro State University in St. Paul, where I plan to finish my bachelor's degree in 2018," he said. "My independent study focused on advocacy as a deafblind individual, and helping to broaden knowledge and support for the Cogswell-Macy Act, which is in Congress now." (Among other things, the proposed legislation would require school districts to provide education tailored to the needs of deafblind students.) "I asked Linda Alsop from SKI-HI to be my deafblind educational content consultant."

Today, SKI-HI no longer offers direct services, though it continues to support families of sensory-impaired children going through their schools' individual education plans. Perhaps more importantly, its influence is felt nationwide in the curricula, research, training, networks and materials it has developed.

For Willets, there is no questioning the value of quality early intervention.

"I can't even imagine where we would be if we wouldn't have had these therapists that would come in and work with Brady and Bradley," she said. SKI-HI has helped ensure that those techniques and services from trained professionals and paraprofessionals are available to families all over the United States.

Maria Reed's two-and-a-half year old son, Chase, has been learning to use his limited vision, thanks to the pioneering work at SKI-HI. Dennison has introduced him to toys that encourage him to track movement and make the most of what he sees. One of them, a light box, presented him with a marching line of light.

"He did so well with it," Maria said. "That was one of the first things that we could track his vision with."

Chase has been working with other specialists from Utah State University, and Maria has seen good results in her son's development. The Willets family journey goes on, too: vacations, camping trips, activities, Disneyland.

"We're very grateful for Brady and Bradley," Brenda said. "And all that we have learned from them."



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Anticipation

The start of every football season brings with it the inevitable nagging questions for coaches, players and fans alike, just as it surely did on that Thanksgiving Day in 1935 when Utah State played the University of Utah. Are we healthy? Are we ready?

You see it in the eyes on the cover of the program 82 years back. Those are gazes of anticipation. The two football players facing off in their leather helmets, seen reflected in the binoculars

of the doe-eyed coed, have been holding those determined stares now through eight decades of USU football triumphs and defeats.

Take a walk through the fifth floor of the Maverik Stadium and you will see similar expressions whimsically illustrated in old football programs splashed across the walls, bigger than life. They charm and connect. For in the crisp autumn game days that lie ahead, it is our turn to hold those binoculars in expectation. Yes, we are lucky to be here focusing on the moment, for we can never get it back. But if things get particularly tense, let's look through the other end of our binoculars and picture ourselves 82 years hence. The Class of 2099 will likely be more fixed on our gazes than on the scoreboard. What will they see?

Oh, the anticipation!

Aggie '17 Football: 'Poised and Determined'

By Doug Hoffman

Under the direction of fifth-year head coach Matt Wells, the 2013 Mountain West Coach of the Year, Utah State football's success on the gridiron has been restored as the Aggies have played in five bowl games in the past six seasons, winning three, both of which are school records.

Entering its fifth season in the Mountain West, and its second year in renovated Maverik Stadium, Utah State fans can expect an exciting and competitive 2017 football season that will include home games against regional opponents Idaho State and BYU, along with conference games versus Boise State, Colorado State, Hawai'i and Wyoming.

Heading into the 2017 season, Utah State will count on 18 seniors to lead a group that includes 16 returning starters (offense-6, defense-8, specialists-2) and



Aggie Pride. Through ups and downs, wins and losses, the Aggieettes are there for us. The football team's solid spring practice bodes well for a stellar season. Anticipation is in the air.

38 returning letterwinners (offense-16, defense-20, specialists-2) from the previous season.

"We want to be in the month of November with a chance to compete for the Mountain West championship, and then you're playing for bowl games," said Wells. "What it's going to come down to is us winning close games. We didn't do that last year and we missed a bowl game for the first time in six years. We have to learn to win close games and we need to win some of those early in the season and get that confidence and that mojo as the season goes on."

Offensively, Utah State returns one of the best dual-threat quarterbacks in the Mountain West in Kent Myers, who earned honorable mention all-Mountain West honors as a sophomore in 2015. Overall, Myers has played in 28 games in his Utah State career with 25 starts, and ranks fourth all-time in school history in completion percentage (.605), sixth all-time in total offense (5,963 yards), tied for eighth all-time with 31 career touchdown passes, and ninth all-time in career passing yards (4,848), career completions (411) and career pass attempts (679).

Utah State returns five other starters on offense in senior lineman Preston Brooksby, senior running back Tonny Lindsey, Jr., junior wide receiver

Ron'quavion Tarver, junior wide receiver Zach Van Leeuwen and junior lineman KJ Uluave.

During the 2016 season, this core group helped Utah State record its eighth-straight 2,000-yard rushing season, which is a school record.

Defensively, Utah State returns eight starters in senior defensive back Wesley Bailey, senior defensive back Jalen Davis, senior linebacker Alex Huerta, senior safety Dallin Leavitt, senior end Ian Togiati, junior safety Gaje Ferguson, junior linebacker Derek Larsen and junior safety Jontrell Rocquemore.

During the 2016 season, USU's defense allowed just 176.5 passing yards per game, which ranked third in the Mountain West and 10th nationally. USU also ranked fourth in the conference and 47th in the nation in total defense, allowing just 379.8 yards per game.

As for its specialists, Utah State returns two letterwinners here in senior long snapper Emmett Odegard and junior punter Aaron Dalton.

Following perhaps the best spring practice period in Coach Wells' five years at the helm, Utah State football is poised and determined to compete for a Mountain West Championship in 2017 and qualify for its 12th bowl game in school history.



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Beloved Community Volunteer Honored

With more than 30 years of contributions to the community of Orinda, California, **John Wyro, '67**, was named as Orinda's 2016 Citizen of the Year. A Monterey Bay area native, who has lived in Orinda located in the San Francisco Bay area since 1982. John brought his energy and professional expertise in land development and city management to board positions with local schools, the Moraga-Orinda Fire District and the Oakland Museum of California.

Wyro credits his success to the support of his wife, **Evans**, whom he met while they were both attending Utah State University. When he is not volunteering or spending time with his family, including four grandchildren, the best place to find Wyro is on a golf course or fishing for steelhead trout in Northern California waters.

2011-12 USU Footballer Signs with San Francisco 49ers

William Davis, '13, signed on as a cornerback for the San Francisco 49ers in June 2017. A native of Spokane, Washington, Davis played at Utah State University for two seasons (2011-12), appearing in 26 games (18 starts) and finished his Aggie career with 99 tackles and five interceptions.

Drafted in 2013 by the National Football League, Will played for two years with the Miami Dolphins and was then traded to the Baltimore Ravens, where he has played for the past two years.

Merger and Acquisition Transactions Expert Joins Raymond James

Raymond James, a financial services banking practice located in San Francisco, California, that provides client group, capital markets, asset management, banking and other services to individuals, corporations and municipalities has hired **Steve Egli, '99**, as managing director in June 2017. Using his more than 12-years-experience advising clients on merger and acquisition transactions and equity offerings, Egli will serve depository institutions primarily located in the western United States.

"The service and capabilities that Raymond James offers clients paired with the extensive experience of its senior bankers is one of a kind," said Steve. "It's a pleasure to join this dedicated team of banking professionals who are committed to getting results for clients."

A native of Utah, Egli obtained a bachelor's in finance and economics from Utah State University and an MBA from the Haas School of Business at the University of California, Berkeley.

1930s

Ray L. Hadley '37, Jun. 6, ID
Richard A. Preston '38, Sept. 22, CA
Vincent L. Rees '35, May 21, UT
Gwen Nielson Seely '39 Att, Feb. 10, UT
Cliff Swapp '38 Att, Dec. 17, AZ

1940s

Wendell M. Baker '49, May 17, ID
Catherine Hurst Barney '47, Apr. 15, UT
Wanda Barton (Barlow) '48, Jun. 23, UT
Elsie Embry Bastian '44, Apr. 26, ID
Elizabeth Barber Bateman '49, Apr. 14, UT
Eileen Bell (Allred) '49 Att, May 9, UT
Don N. Crittenden '45, Apr. 8, UT
Carl R. Croft '49, Jun. 26, UT
Eldon M. Drake '43, Jun. 22, UT
William J. Durrant '45 Att, Apr. 14, UT
Maryetta Gardner Forman '49 Att, Apr. 24, UT
Jean France (Hylton) '41 Att, Apr. 24, UT
Barbara Curtis Grandy '45, May 23, ID
Ted Heath '47, '50MS, May 2, UT
Phyllis Sederholm Larson '47, Jun. 15, UT
Jean Madsen (Waterman) '47, '68MM, May 5, UT
Barbara J. Mellor (Forrest) '47, May 21, UT
Beth Price Millard '43 Att, Jun. 10, UT
Marvin W. Pearson '49, Dec. 29, CO
Margaret P. Perry '42, Jan. 15, CA
Lola S. Peterson (Sorensen) '41, '53, Apr. 20, ID
Mildred F. Peterson (Fielding) '48, May 5, UT
Lewellen Marie Pugmire (Jelte) '43 Att, Jun. 10, ID
Norma Rasmussen (Tasso) '49, May 1, AZ
Maurine Redd (Jensen) '41, Apr. 27, UT
Beth Bingham Richins '40, Jun. 27, UT
D. Alden Smith '49, Jan. 28, AZ
Donna Ruth Sorenson (Nielsen) '49, May 11, UT
Brian L. Taylor '46, May 7, UT
Alvin C. Warnick '42, May 9, FL
Vonda H. Whitlock (Hadfield) '46 Att, Jul. 11, UT

1950s

Rulon S. Albrechtsen '56, '57MS, Jun. 18, UT
Norma B. Anderson (Burnham) '50, Jun. 19, UT
Faun Bagley (Deleuw) '57, Jun. 21, UT
Vera Mae Bakker (Ogden) '55, May 20, UT
Charles H. Bauman '57, May 14, UT
Don L. Becker '51, '55MS, Apr. 28, UT
Clarence R. Bishop '52, May 11, UT
Emma Boehme (Newbrand) '50 Att, May 18, ID
Ray M. Boothe '53, '58MS, Apr. 13, CA
Wilmer W. Brown '50, Apr. 1, ID
Sherrel Evans Burgoyne '57 Att, Jun. 20, ID
Marvin E. Bywater '56 Att, Jun. 26, UT
Dennis M. Carlsen '51 Att, May 1, UT
Luanne Kent Christmas '54, Jun. 1, UT
Joseph A. Clayton '52, May 12, MI
Boyd Crawford '57, Jul. 4, UT
Leonard F. DeBano '57MS, May 13, AZ
Joyce Dennis (Rigby) '50 Att, May 24, UT
Shirlene Ingram Dovey '56, May 27, UT
Kent T. Evans '51, May 6, ID
Norman D. Fife '57, Jun. 7, UT
Robert W. Fletcher '59, '67MFA, Jul. 11, UT
Floyd R. Fox '54, Apr. 20, MA
Robert W. Fuller '53MS, Jan. 20, VT
Phill H. Goodsell '52, Apr. 24, UT
Rebecca Brough Hilton '54, Apr. 23, UT
Stanford Holt '59, May 31, UT
John D. Howe '50, May 13, UT
Dean L. Jensen '51 Att, May 2, CA
Gerald J. Kundert '56, Feb. 18, CA
Anne McDonald McCallson '53, Apr. 20, UT
Marilyn Mickelson (Rich) '54, May 2, UT
Shirley Harston Millett '55 Att, Jun. 8, UT

Sheldon E. Moore '59, Jun. 29, UT
Dee Morgan '51, '53MS, May 7, UT
Harvey L. Murdock '50, Apr. 29, UT
Beverlee Zollinger Murray '52, Jun. 15, UT
Robert B. Murray '51, Jun. 28, UT
Viann Niebergall '58 Att, Jun. 15, UT
Phil Nyborg '52, May 1, ID
Carlos K. Ogden '57, Mar. 26, OH
Edwin C. Olsen III '59, '65PHD, Jun. 30, UT
Winnifred Ospital (Parker) '58, '85MED, Jul. 4, UT
Melvin Alan Persons '53, Jul. 2, AZ
Gilbert L. Phillips '51 Att, May 1, UT
Sandra L. Pickren '56, May 28, TX
James M. Pond '59, May 7, UT
Earl R. Priegel '50, Apr. 18, GA
Howard Dale Rasmussen '56MS, Jun. 7, UT
Yvonne R. Sears (Rippon) '55, Apr. 18, AZ
Archie Skeen '58 Att, Jun. 2, UT
Jack A. Soper '58, '71MS, May 29, UT
Joseph P. Stott '50, Jun. 10, UT
Ronald D. Wardleigh '55, Apr. 23, ID
Rochelle Whitney (Agren) '58, Jun. 7, UT
Kay F. Worthen '54, Dec. 15, NV

1960s

Ivan Kent Alder '62, Jun. 13, UT
Gerald B. Anderson '65, Apr. 20, UT
Loma Ashby (Lovell) '61, Jun. 16, UT
Ronald D. Bingham '61, Jul. 3, UT
Gayle Bouck (Buttars) '60, May 18, ID
Anita Brown (Budge) '66, Jun. 2, UT
Lani D. Burack '66, Feb. 1, NY
William E. Burdock '67, May 18, TX
Lenna Rudd Burkinshaw '64, Apr. 14, AZ
Mark Bybee '65, May 3, UT
LaMar C. Capener '60, May 22, UT
Chia Sheng Chang '68MS, Apr. 30, CO
Aurelia Neilson Clemons '66, Apr. 19, ID
Garth L. Clinger '66, May 3, ID
Mary Alice Cook (Timmins) '69 Att, Jun. 10, UT
Bill Cranney '61 Att, May 27, ID
Jay A. Davis '66, May 27, UT
Carroll Fred Dayley '63, Jun. 18, ID
Jon Nelvice Eby '60, Jul. 5, UT
Morgan Glade Edwards '61, Jul. 4, UT
Larry Dean Hafen '68 Att, Jun. 27, UT
Francis J. Hall '62, Jun. 13, UT
Joseph S. Hanks '61, May 19, UT
Afton M. Hansen '62PHD, Jun. 15, UT
Marilyn S. Howard (Stauffer) '61 Att, Apr. 26, UT
Mary J. Humphrey (Greear) '64, May 17, NE
Janice Hutchison (Watson) '66 Att, May 12, ID
John P. Jensen '68, Jun. 29, UT
Bendt W. Johnson '61, Apr. 28, UT
Larry M. Kelsey '63, Jun. 1, ID
Pamela P. Knutson '67, Jun. 30, UT
Robert Maxwell Lamkin, Jr. '61, Jun. 10, NV
Joseph William Larkin '60, Jun. 19, UT
Gary Lowe '63, '71MS, May 17, UT
Craig Raymond Lundahl '68MS, '73PHD, Jul. 1, NM
Charles F. McGuire '65MS, Jun. 20, MT
Grant C. Mohlman '63, Jun. 3, NV
Gene N. Nodine '61, May 5, UT
Emmanuel A. Oddoye '69, Jul. 28, TN
Ben H. Page '61, May 24, UT
Marianne Pannier '68 Att, Jun. 18, UT
L. Brent Plowman '67, '69MBA, '95, Apr. 15, UT
Logan D. Robinson '67, May 11, ID
Leonard E. Rohde '60, May 13, CA
LeRoy G. Shields '65, Jun. 23, UT
Meriam J. Stanger '62, Jun. 29, UT
Richard Harold Stephens '64, '74MED, May 14, UT
Alfonso R. Trujillo '61MS, May 25, UT
Reed E. Williams '68, '70MS, Apr. 29, WY
Lencye Ahlfs Zenk '69MS, Jun. 16, ID

AIN MEMORIAM

Through October 31, 2016

1970s

Vernon A. Bingham '73MSS, Jun. 4
Colleen H. Bradford '79 Att, May 29, UT
Roger W. Christensen '71, Jun. 23, UT
Michael S. Corrigan '73, '76MS, Jun. 16, ID
Dennis Brent Durbano '75 Att, Jun. 3, UT
Dale Fillmore '71, May 13, UT
Claudia M. Gray (Crosland) '73, May 5, UT
Lora Jean Hansen (Dallimore) '71, Apr. 23, ID
Vernon L. Hansen '70, Jun. 29, UT
Stanley P. Johnson '75MLA, Jul. 8, UT
Van Burt Johnson '77 Att, Apr. 23, UT
Kenneth A. Kannegaard '74, May 27, CA
Max S. Lamb '72, Jun. 12, UT
Kim Van Mallory '76 Att, May 15, UT
John Patrick Maloney '79, May 21, CA
Valarie C. Martin (Clark) '76, Jul. 7, UT
James Martin McGaughey '74 Att, May 18, UT
Robert T. Nash '72EDD, May 21, WI
Andy K. Pedersen '76 Att, Jul. 13, UT
Barbara L. Petrovich '73 Att, May 7, ID
Michael Dale Read '76, May 5, UT
Charles G. Riddle '73, '76MS, Apr. 26, ID
Norma Roberts (Trease) '79, Jun. 3, UT
Lee Ann Rowser (Boyer) '71, Jun. 11, UT
Blaine A. Schmidt '70, '72MS, Jun. 7, UT
Glade T. Shakespeare '70, Jan. 7, UT
David E. Skabelund '75 Att, Jun. 9, UT
Mark W. Stucki '73, Jun. 24, AZ
Howard Max Winn '74, Jun. 26, UT
Daniel Witbeck '79, May 22, UT

1980s

Kevin S. Barrett '82, Jun. 30, UT
Alan Dee Burbank '81, '85MED, Apr. 30, ID
Richy G. Dixon '86, Jun. 19, UT
William K. Eckenbrecht '86, '89MSS, Apr. 21, UT
Constance J. Geiger '88PHD, May 5, WY
Julie Ellis Haycock '86 Att, Jun. 11, UT
Steven G. Jordan '80, Mar. 31, UT
Scott Steven Kirkpatrick '84, Nov. 23, UT
Knute Edward Lund '80, Jun. 7, ID
Kathleen D. Parker '80, Jun. 15, CA
Michael K. Rice '81MED, Jun. 11, UT
Erika N. Snouffer '87, Jun. 17, CA
Mary Lenore Watkins '88MS, Jun. 12, UT

1990s

JoEllen Atwood '98 Att, May 2, UT
Franklin I. Bacheller '99PHD, Apr. 21, UT
Howard Hulen Baskin '93, May 31, CO
Rhonda K. Blake (Heaton) '96, May 11, UT
Jeffrey L. Brower '98, Jun. 25, UT
Greg S. Frehner '92, Apr. 22, NV
Effie Hansen '92, Jun. 12, MT
Hans J. Jeppson '90, Jun. 12, UT
Patrick J. Kerins '99 Att, Jun. 28, UT
Paul R. Lindstrom '95, Apr. 27, UT
Luis Olivarez '92MS, Aug. 3, FL
Venna Layne Oliverson '90 Att, May 12, UT
Rodney R. Rientjes '92, Jan. 12, ID
Kathryn C. Romney '92MED, Jun. 11, UT
Richard J. Sandau '98, May 27, UT
Richard Lynn Scott '94MS, Aug. 5, TX
Bret R. Slauch '99, Apr. 13, UT
Vanessa D. Summers '96PHD, Apr. 6, VA
Jeffrey Lee Sutton '97, May 21, ID

2000s

Kathleen Anderson '07, Jun. 8, UT
Mark G. Larsen '00 Att, Apr. 27, UT
Jared Brent Undhjem '09 Att, Jul. 6, UT

2010s

Crystal Aranda '16 Att, Jun. 11, UT
Jared L. Baker '14, Jun. 29, UT
Elizabeth W. Bawden '11MS, Jun. 3, UT
James D. Breitweiser '15 Att, Apr. 21, UT
John L. Cross '15 Att, Apr. 26, UT
Jesse S. Hall '15 Att, Mar. 20, UT
Lynn A. Jameson '10 Att, Apr. 8, UT
Monica Long '17 Att, Jul. 3, UT
Joshua G. Nichols '17 Att, Jul. 6, UT
Breanna Reed '15, Jun. 2, UT
Gretchen A. Roberts '10 Att, Apr. 19

FRIENDS

Nazih T. Al-Rashid Jun. 30, CA
Margaret V. Armstrong May 31, UT
Michael Atkin Jun. 12, UT
Terri H. Austin (Hughes) May 9, UT
Scott Bergvall May 15, UT
Melva Y. Blair Jun. 2, UT
Dorothy Boleau Jun. 7, UT
William S. Britt Apr. 22, UT
Stephen P. Brown May 23, UT
Kim R. Burningham Jul. 7, UT
Betty Louise Anderson Burr Jul. 5, UT
Kathy Burt Jun. 25, UT
Robert Calvin Apr. 17, UT
James B. Case May 8, UT
Helen A. Champ Jun. 8, UT
H. Kay Chandler Jun. 25, UT
James G. Christensen Jun. 1, UT
Blaine S. Clements May 21, UT
Dot Conger May 24, UT
Raymond J. Couch Apr. 23, UT
David Raymond Cox Jun. 17, UT
Robert Cutler Jul. 9, UT
Patricia Damron Jul. 9, UT
Jean R. Davis Apr. 26, UT
John D. Donnell May 14, UT
Leeann D. Duran (DeBouzek) Jun. 22, TN
RaNae Wallentine Earley May 14, ID
Helen L. Faddis (Liddell) May 22, UT
Lewis Fine Apr. 7, UT
George Foster Apr. 16, UT
Kent Frazier May 13, UT
Arlene Gale Jun. 2, UT
August Glissmeyer, Jr. Jun. 22, UT
Terry L. Goodsell Jul. 1, UT
JoAnn K. Griffiths Jun. 11, UT
LaGene Halverson Jun. 27, UT
Calvin F. Hansen May 20, UT
Jim P. Hansen Apr. 27, UT
Ronald P. Hansen Jun. 13, UT
Jack Higbee Apr. 16, UT
Eugene Hilgenberg Jun. 27, UT
Matthew Hitesman Apr. 27, UT
Roberta T. Hooper Jun. 6, UT
Frederick Joseph Hunger Jul. 5, UT
Fay Jacobs Jun. 24, UT
LeRoy Jacobsen Jun. 1, UT
Duane Jensen Jul. 8, UT
Marian T. Jensen Mar. 31, CA
Peggy A. Jensen (Parken) May 6, UT
Dortha B. Jessop Jun. 4, UT
Andy Kelly May 9, UT
Jerrolyn Kimball Jun. 4, UT
Richard L. Kirchhoff May 7, UT
Barbara Kontgas Apr. 14, UT
Peter E. Kung Jun. 27, CO
Lorna Larsen (Anderson) May 8, UT
John Lasater Jun. 14, UT
Donnette Leatham Apr. 27, UT
Melanie Liston Jun. 21, UT
Gayle Lund May 30, AZ
Janet Lund Jun. 9, UT
Pete Mantas May 7, UT
Virginia Martinez Jun. 27, UT
Walter Mason Jun. 5, UT
Gwen J. McGarry Jun. 3, UT
Diane Meibos Jul. 10
Robert E. Mueller Jun. 11, UT
Boyd W. Munns May 7, UT
George H. Niederauer May 2, CA

Celesti Nielsen Jun. 17, UT
Eldon J. Nielsen Jun. 6, UT
Daryl G. Norton May 3, UT
Janette Norton Aug. 25, UT
Sandra Noyce Jun. 13, UT
Laree I. Noyes (Ivive) May 21, UT
Elsie M. Parker May 30, GA
Daila Paxton Jun. 17, UT
Margaret R. Pearce (Rachele) May 7, CO
Don Perkes Jul. 9, UT
Calleen Peshell May 4, UT
Mark Petersen May 29, UT
Ralph Pomeroy Jun. 21
James C. Reading Jun. 28, UT
Brent W. Richardson Jul. 4, ID
Matthew Rivera Apr. 24, UT
Diane Rolfs Jun. 12, UT
Sabrina Y. Savage May 15, UT
Doris P. Schramm (Parker) Jun. 9, UT
Cathlyn S. Schumann Jun. 9, AZ
William P. Scruggs May 4, UT
Carolyn Showell Jun. 30, UT
Dot Simmons Jul. 7, UT
Jared Slade Jun. 1, UT
Robert L. Sluder Apr. 20, UT
Melva T. Smith Jun. 9, UT
Robert C. Steensma Jun. 8, UT
Michael Stuart Apr. 27, UT
William L. Taylor Apr. 16, UT
Larry D. Thompson May 9, UT
Byron D. Timbimboo Jul. 3, UT
John VanDuren Apr. 19, UT
Sherlene Hoffman Wamsley Jul. 12, NV
Dan Watson Apr. 12, UT
Florence Webster Apr. 18, UT
David C. Weeks Apr. 15, UT
Irl White Apr. 23, UT
Waldo Wilcox Jul. 5, UT
Don W. Winterton May 21, FL
Anthony D. Woolf May 18, CA
Evelyn W. Zabriskie May 21, UT
Verner Zinik Jun. 13, UT

ATTENDERS

Lloyd Ray Adams Att, Jun. 23, FL
Ray Lynn Allen Att, Jul. 11, CO
Gary Edward Anderson Att, May 1, UT
Ivan Carl Anderson Att, Jun. 2, UT
Russell Scott Anderson Att, Jun. 17, AZ
Ryan Dennis Angus Att, Jun. 16, UT
Warren J. Ashton '56, Jun. 15, UT
Roger Lewis Bagley Att, Jun. 24, UT
Amanda May Baker (Ritzert) Att, Jun. 10, UT
Glennis Pratt Barker Att, May 12, UT
Janet Marie Jackson Barney Att, Jul. 6, UT
Lark Allred Bateman Att, Feb. 6, ID
Lornell Hansen Bateman Att, May 1, UT
Lynn Jay Bellows Att, May 22, UT
Richard A. Bethers Att, Jun. 14, UT
Dot W. Black (Wagner) Att, Jun. 30, UT
Judy Brighton Att, Jul. 3, UT
Launna Christensen Brink Att, Jun. 7, CA
Lurae Brown Att, May 8, UT
George Burgess Att, Jun. 6, CA
Charles Burgoyne Att, May 2, UT
Diane Burke Att, Apr. 15
Randy Wilson Burningham Att, Jun. 3, UT
Dennis M. Callahan Att, May 20, CA
Beth Hovey Campbell Att, Apr. 15
Harold Lee Caputo Att, Jun. 29, CO
Gary Gene Coles Att, Apr. 14
Leon J. Creger Att, Jul. 6, UT
Carl Cronquist Att, May 10, ID
Ronald J. Day Att, Jun. 1, UT
Rona Joy Dixon (Egan) Att, Jun. 4, UT
Barbara Dougherty Att, Jun. 3, UT
Doyle W. Elison Att, Apr. 17
Roger B. Felt Att, Jul. 8, UT
John Firth Att, Apr. 24, ID
Allen H. Fisher Att, Jun. 30, NJ
Carl Halvor Fodnes Att, Jun. 6, UT
Karen Ann Fowler Att, May 20, ID
Mary A. Garcia Apr. 25, UT
Marissa Loren Garnica Att, May 29, UT
Gary Russell Guernsey Att, Apr. 29, UT
Ronald W. Hannert Att, Apr. 4, AZ
Darrell C. Hansen Att, May 17, UT
Robert L. Hardy Att, Apr. 18, UT
Darwin Harmon Att, Jul. 3, UT
Lucy Elise Harris Att, Jun. 8
Larry Orville Heiner Att, Apr. 16, VA
Owen Edward Hess Att, Apr. 27, UT
Leo Kay Hortin Att, Apr. 30, UT
Henry Reid Howes Att, May 8, UT
Michael R. Hurst Att, Apr. 28, UT
Gary L. Iannone Att, Mar. 12, NV
Ginger Tucker James Att, Jun. 1, UT
Arden L. Jensen Att, May 4
Blain Jensen Att, Apr. 18, CA
Fred R. Jensen Att, Jun. 28, UT
Joseph James Jensen Att, Jun. 1, UT
Major Albert Kay Johnson Att, May 10, UT
Heber Blaine Kapp Att, May 31, UT
George F. Kinsey Att, Jun. 22, UT
Gary T. Kutkas Att, Jun. 30, UT
Allan David LeBaron Att, Jul. 8, UT
Lynn Gilbert Lewis Att, Jun. 27, UT
Ronald O. Lindsey Att, Apr. 15, UT
Kim B. Lybbert Att, May 20, UT
Idona Mathis (Allred) Att, Apr. 22, UT
Arnold Mecham Att, Jul. 3, ID
Stuart Meerscheidt Att, Jun. 2, NM
Beverly Tingey Miles Att, Feb. 26
Drew C. Millerberg Att, Jul. 1, UT
Charles W. Moore Jun. 27, UT
Allien B. Morrissey Att, May 20, CO
Mildred Allien Morrissey Att, May 20, CO
Bernice Richman Naef Att, May 2, UT
Jonathan Alan Naylor Att, May 4, UT
Flora Lundahl Nielsen Att, May 19, UT
Joyce Y. Nielson (Young) Att, May 14, UT
Jedediah Montana Ostler Att, Jun. 21, NM
Carol Penrod Att, May 31, UT
Krecia Marie Petersen Att, Jun. 3, TX
Chas S. Peterson Att, May 10, UT
Robert Reed Peterson Att, Jun. 29, UT
Terry Gene Piazza Att, May 21, CA
Mary Ann Pierce Att, Jul. 1, UT
George Guy Ross Att, Apr. 13
Jerusha Sanjeevi Apr. 24, UT
Dickie Sargent Att, May 25, UT
Donald Scott Att, May 20, UT
Jeanette Smith Oberhansley Searle Att, Jul. 4, NV
Betty L. Shuler Jul. 3, CO
Surjit Sidhu Att, Jun. 19, FL
Robert Dahle Sparrow Att, Jun. 7, UT
Janice Spencer Att, Jun. 23, UT
John Clark Steele Att, Apr. 14
Elden F. Stenbridge Att, Apr. 22
Jerry E. Stillson Att, Jun. 14, UT
John F. Sylar Att, Jun. 9, UT
Lauretta Frank Tanner Att, May 1, UT
Melda M. Tanner (Martell) Att, Jun. 25, UT
Sylvan K. Tanner Att, Oct. 23, UT
Lisa A. Teed Att, May 13, UT
Rosa L. Thobe Att, Apr. 26, UT
Carol Pond Thorpe Att, Jun. 18, UT
Dawn Butters Todd Att, May 5, ID
Charles R. Warr Att, Jun. 25, UT
Robert Conrad Weisenburger Att, May 9, ID
Walter August Westphal Att, Jun. 15, UT
Jan L. Wilde Att, Apr. 17, UT
Boyd R. Williams Att, Jun. 23, UT
William Williams Att, May 8, UT
Gerald L. Wiser Att, May 30, UT
Harry Earl Woodbury Att, Apr. 29, UT
Alan Wright Att, Jun. 20, UT

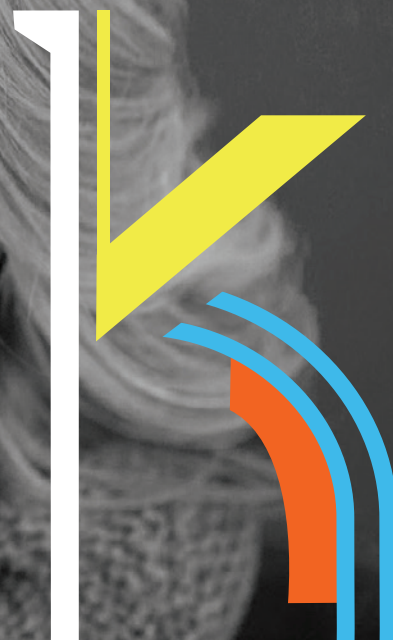
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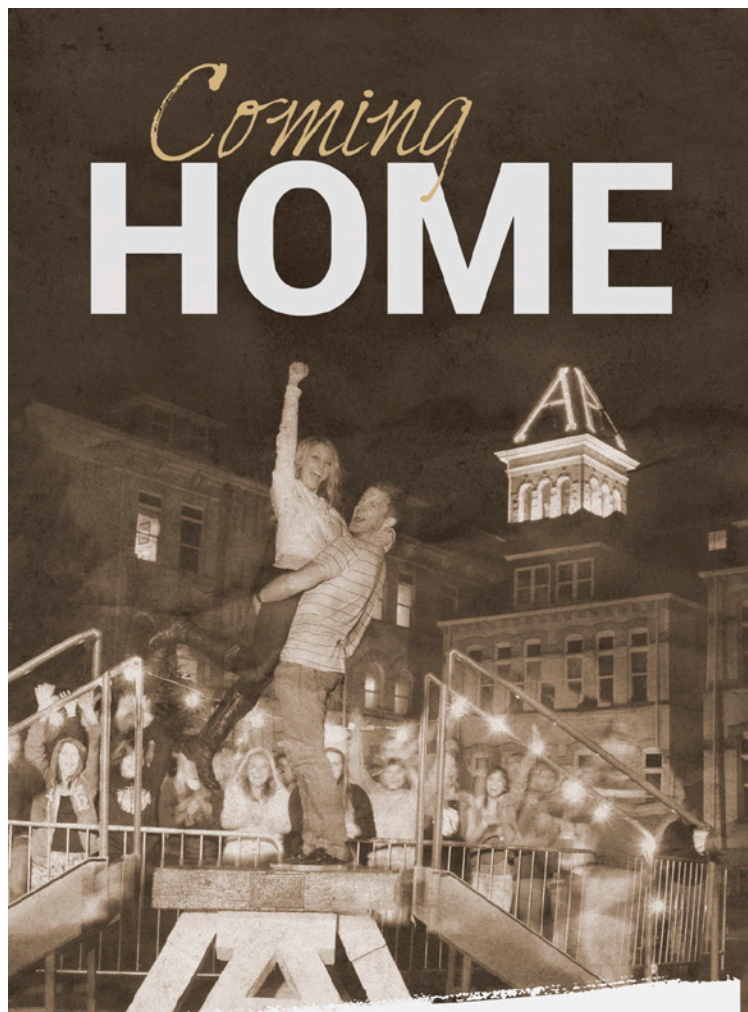
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