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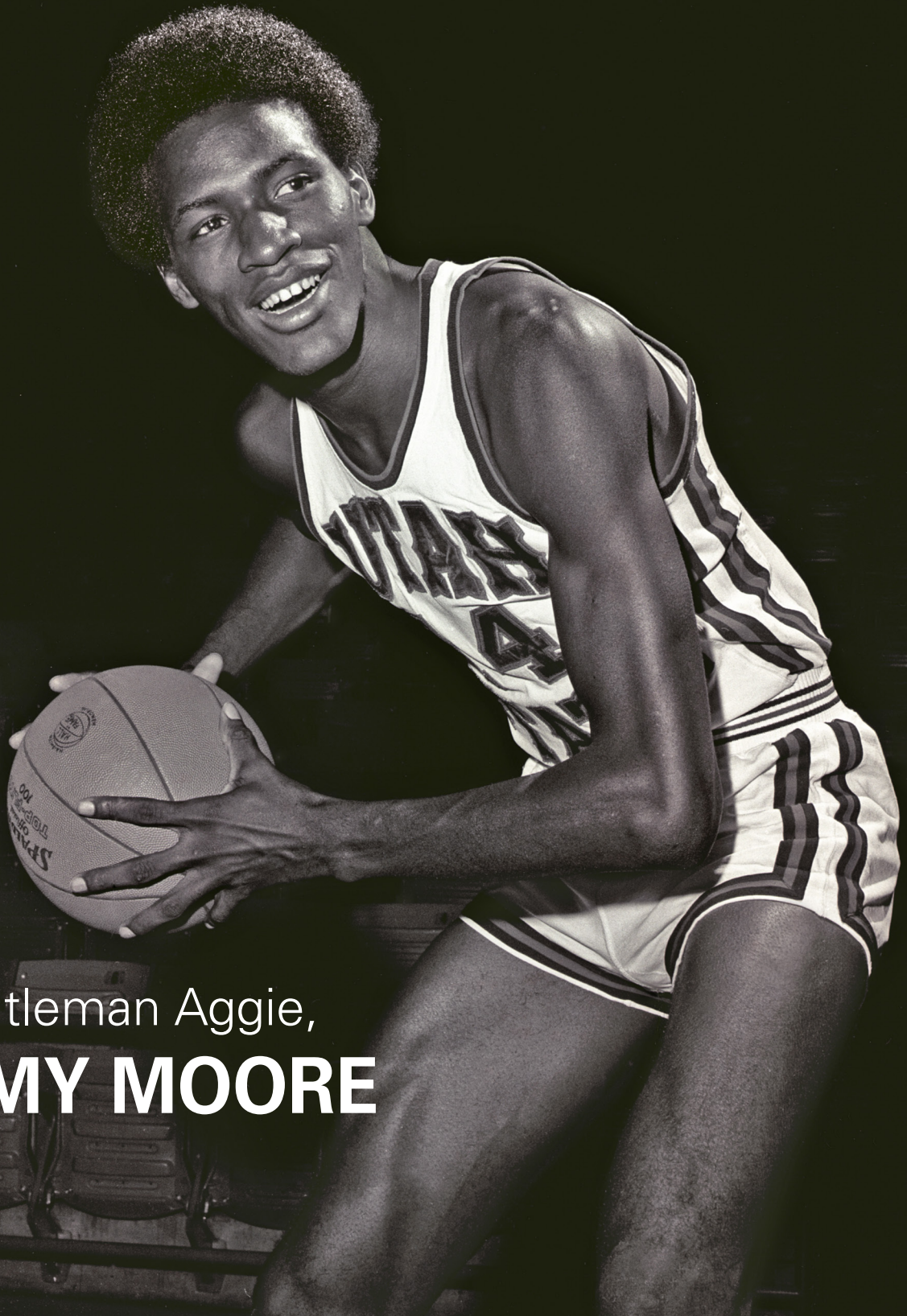
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UTAH STATE

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VOL. 23, NO. 2 SUMMER 2017



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JIMMY MOORE

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UTAH STATE

Vol. 23, No. 2 | **SUMMER 2017**

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2 NEWS@USU

What happens when a mysterious blue box shows up on Aggie porches all across the country? You're going to want to find out, because one might be headed your way next. Time to Aggie up!



22 NEWS@USU

Irina Polejaeva from Utah State's College of Agriculture and Applied Sciences leads a team of researchers that has created the first transgenic goat model for atrial fibrillation. Now the team is looking into the human side of cardiac fibrosis. Goats and hearts; you're going to love where this one is headed.

24 LEARNING HOW TO LEARN

USU Eastern's Chandler Vincent has already been declared the USA WorldSkills welding champion. He'll next be heating up the competition and representing our country in the WorldSkills championship later this year in Abu Dhabi. Talk about bringing it all together.



MORE THAN A GAME 16

Seems like everybody around Utah State University can appreciate at least a little of the vast impact Jimmy Moore has made around here; over the years he's worn a multitude of Aggie hats. But you may still be surprised to discover what his true motivations are and just how deeply he feels connected to the institution he says changed everything for him.

ON THE COVER

Jimmy Moore when he was a student-athlete on the USU men's basketball team from 1972-75, helping the Aggies to the 1975 NCAA Tournament. He finished his career with 1,164 points and 652 rebounds and still ranks 24th all-time in school history in scoring and 15th all-time in rebounding. In 2013 he was inducted into USU's Athletics Hall of Fame. Photo by Ted Hansen courtesy of USU Special Collections.

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Utah State University is committed to equal opportunity in student admissions, financial assistance, and faculty and staff employment.



Brik '88 and Susan Eyre '88, Libertyville, IL



Tom Hayes '79, Milwaukee, WI.



Nicole '13 and Brad '14 Theurer, San Antonio, TX

Hey! What's in that: LI'L BLUE BOX?

Imagine this, the doorbell rings and you go to the porch to find that UPS left you a blue package that says "Surprise!" You approach the package reluctantly, and then you see the USU Alumni Association seal on the outside that eases your nerves, sure, but does little for your bewilderment. "Why on earth are they sending me a package out of the blue?"

This scenario played out for many Aggies in 2016 and it's still underway. After opening the package USU alumni discover a blue crate containing a USU flag, a stuffed Li'l Blue and a journal. The accompanying instructions are simple: snap a photo that showcases your area, send the photo to the Alumni Association and make a creative contribution to the journal. When finished, the recipient uses one of the enclosed bags and prepaid mailing labels to forward the package, surprising another Aggie somewhere in the country.

Josh Paulsen with the Alumni Association conceived the idea when his daughter came home from elementary school with a Flat Stanley assignment (Flat Stanley is a life-sized paper child that is mailed to a distant friend for a photo op). "Why can't we do something like this with our alumni?" he asked. "Who wouldn't want to participate in a project that connected Aggies all over the country?" Paulsen found the supplies, worked out the mailing logistics and when the financials revealed it was feasible, dropped a prototype in the mail, not knowing if it would make it past the its first destination. It did, and it returned to campus eight weeks later. Now there are a dozen crates bouncing around the country.

"The most rewarding aspect is to read the journal entries when the box returns to Logan. The notes can be touching, hilarious, and sometimes a little weird," Paulsen said.

To place yourself on the list to receive a Li'l Blue box, sign up at usu.edu/alumni/lilbluebox



Chris Rawlings '05, Spring, TX



Jacob '03 Maren McBride's future Aggies, Plano, TX



Jennifer '05 and Gary Thurgood and family, College Station, TX



Kevin '08 and Kate '07 Abernethy and family, Mobile, AL



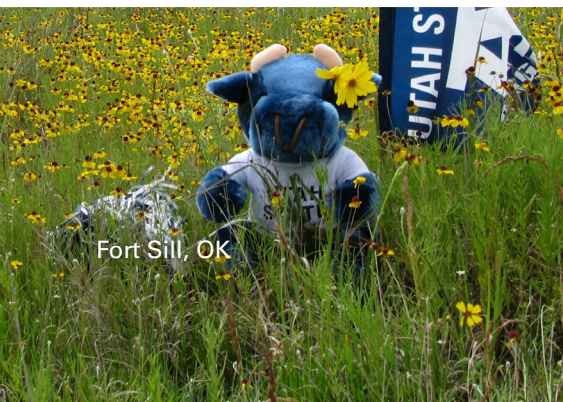
Steve '08 and Erica '99 Middleton, San Antonio, TX.



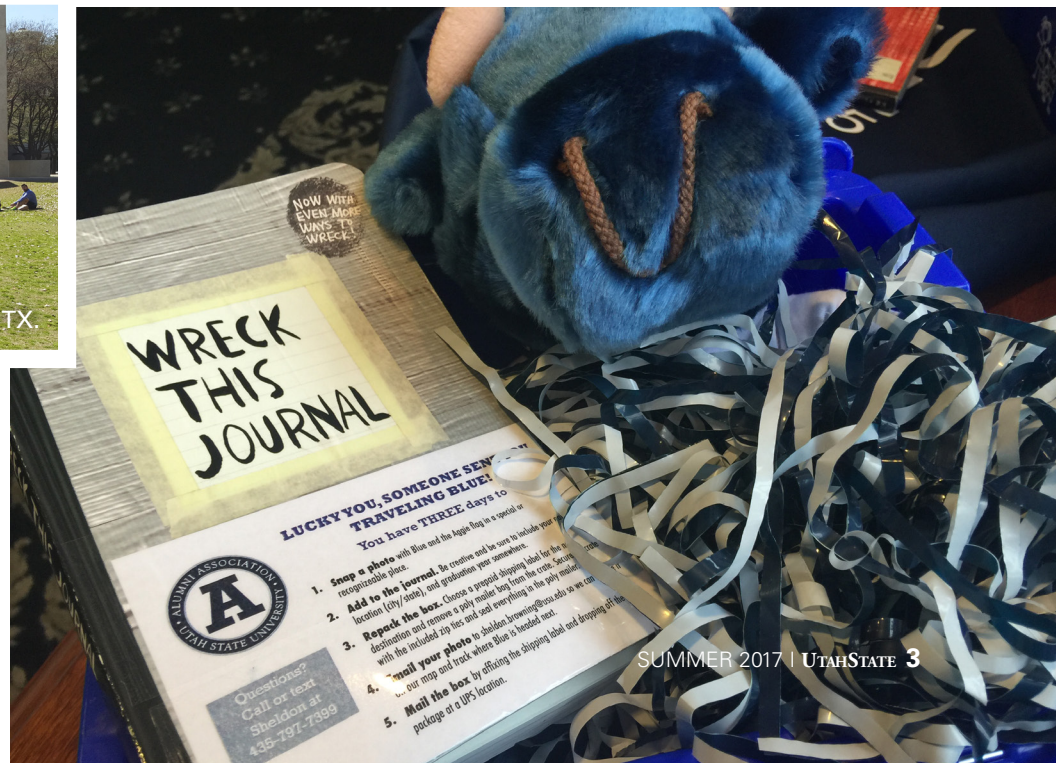
Chris '05 and Brindi '10 Rawlings' future Aggies, Spring, TX



Josh '10 and Joni '07 McNeely, Katy, TX.

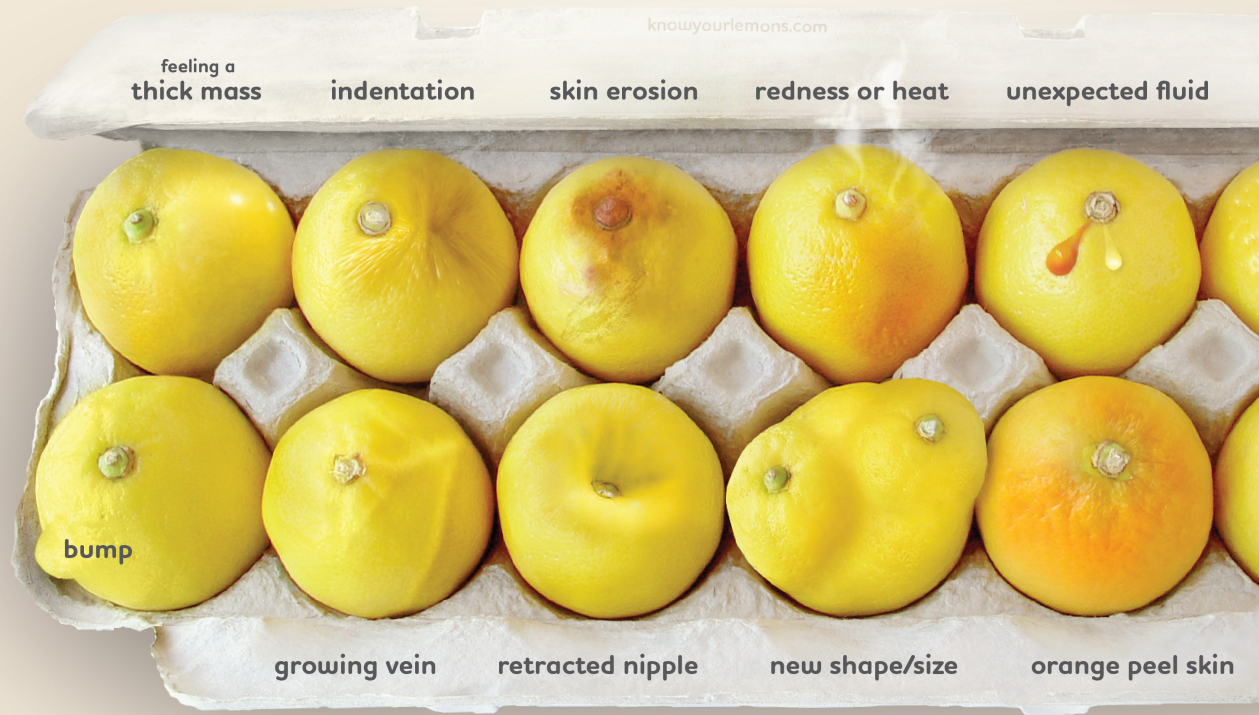


Fort Sill, OK



WHAT BREAST CANCER CAN LOOK & FEEL

Recognize something? Don't panic, some changes are normal. But if it stays around be smart-



"A cancer
hard and immov
It ca

Want information on each symptom?

knowy



worldwide
breast cancer

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Know Your Lemons ... *Please,*
Just Know Your **LEMONS**

LIKE

—show a doctor.



ous lump usually feels
able like a lemon seed.
n be any shape or size."

ourlemons.com

knowyourlemons @knowyourlemons



Her paternal grandmother died of breast cancer at age 40. Her maternal grandmother died of breast cancer at age 62. Many of us have had breast cancer touch family or friends, but what Corrine Ellsworth Beaumont '00, '03 MFA did about it was entirely unexpected.

She was working on a USU master's in art and design when she lost her second grandmother to the disease, which got her concerned about her own health. "What do I look for? What am I feeling for in a self-exam? When should I get a mammogram? Am I at a higher risk?"

She went to a cancer library for answers to these questions, but encountered only more questions.

She remembers finding no single leaflet or website that offered all of the answers in a simple, easy-to-understand format. As a designer, she thought she could change that. So in 2001 she took it on as a USU's master's project; devoting her best efforts to making breast cancer awareness easy to understand, interesting, informative through the power of good design.

"Part of good design is to put yourself in the shoes of the person you are designing for," Ellsworth Beaumont said. "So I shadowed a physician, I talked to patients, I even got a mammogram myself after spending a day at an imaging center."

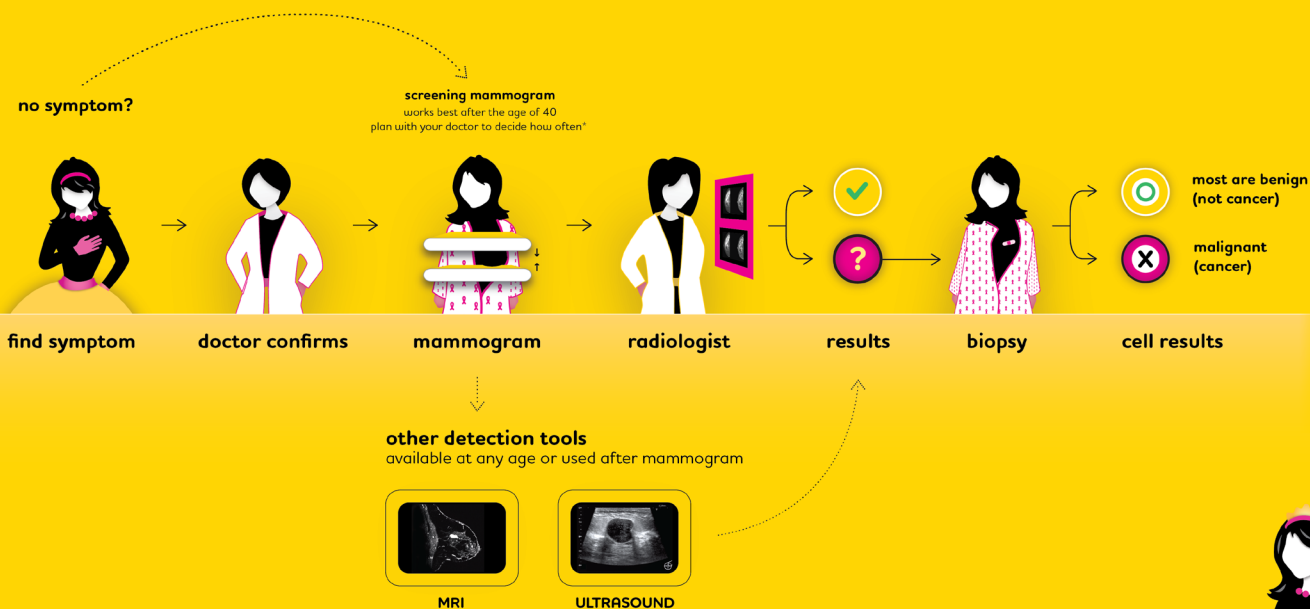
This first-hand research gave her the empathic insight she needed in order to understand how to better communicate, not only information to patients, but also how to explain gaps in the



Corrine Ellsworth Beaumont's campaign is gaining ever-increasing interest. Here she makes an appearance on the BBC.

HOW TO FIND BREAST CANCER

Knowing these steps will help you be more confident in taking charge of your health and seeking answers.



*may need screening invitation (in some countries)

Want to learn more about each step?

knowyourlemons.com

worldwide breast cancer. Designed by charity WorldwideBreastCancer.org, USA. Do not alter, crop or add to this image without written permission.

#knowyourlemons @knowyourlemons

A LEMON LOOKS A LOT LIKE A BREAST;
IT HAS A NIPPLE AND THE INTERIOR LOOKS
SIMILAR TO BREAST ANATOMY.
AND SURPRISINGLY THROUGH HER
OWN EXHAUSTIVE RESEARCH,
SHE LEARNED THAT A
BREAST CANCER LUMP
FEELS DIFFERENT, IT IS HARD
AND IMMOVABLE...
MUCH LIKE A LEMON SEED.

health system when it came to detection and screening. Why? When patients aren't informed about the process, it can lead to missed diagnoses.

She wanted to reach as many women as possible, so the aim from the start of her work was to create a global campaign, effective across multi-cultural barriers of acceptance and levels of literacy. To do this, she needed to show a breast, without using a breast and this is how she discovered an unexpected solution: use lemons.

A lemon looks a lot like a breast; it has a nipple and the interior looks similar to breast anatomy. And surprisingly through her own exhaustive research, she learned that a breast cancer lump feels different, it is hard and immovable...much like a lemon seed.

Ellsworth Beaumont was beginning to realize she could change the world. And after working on the campaign as part of her Ph.D. in London, England, it did.

In January of this year, the "Know Your Lemons" campaign became a global phenomenon, reaching 166 million people worldwide in just three weeks. It became a major news story on BBC News, caught the attention of CNN, and many magazines, websites and newspapers in dozens of languages. Requests for the campaign came pouring in from government organizations,

volunteer translators offered their services and she appeared on BBC and German television explaining the unique approach to her popular campaign. All on a budget funded by \$12,000 in savings over the past decade, it's become the most popular breast cancer campaign in history. It's now available in 16 languages and growing.

The campaign is run by the charity Worldwide Breast Cancer, founded by Ellsworth Beaumont herself. She works with her CEO, Katherine Crawford-Gray who is based in New York City. Ellsworth Beaumont travels across the Atlantic frequently with her 4 year-old daughter as she presents at conferences and meets with corporate sponsors.

She is currently developing an app that's meant to "help you find breast cancer better" due for launch in September in English, French and Spanish.

It is her hope to change the picture of breast cancer for the better—one lemon at a time. Wow.

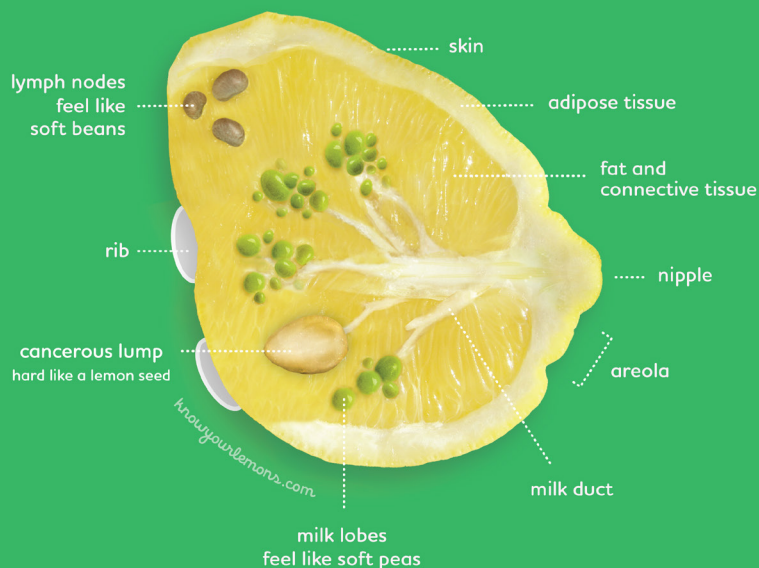
You can learn more about her work and how you can donate to this life-saving cause at <https://worldwidebreastcancer.org>

— Jared Thayne '99

SHE IS CURRENTLY DEVELOPING
AN APP THAT'S MEANT TO
"HELP YOU FIND BREAST CANCER BETTER"
DUE FOR LAUNCH IN SEPTEMBER IN ENGLISH,
FRENCH AND SPANISH.
IT IS HER HOPE TO CHANGE THE PICTURE OF
BREAST CANCER FOR THE BETTER —
ONE LEMON AT A TIME.

WHAT TO FEEL FOR DURING A BREAST EXAM

Know what is normal for you between your regularly scheduled mammograms. A lump is not the only sign.



A cancerous lump
often feels hard and immovable
like a lemon seed.
(It can be any shape or size.)



soft peas



soft beans



hard seed

Feel from your armpit to your collar bone
to the bottom of your rib cage.



Do you know when to self-exam and mammogram?

knowyourlemons.com



Sage Lessons

from Sage-Grouse Conservation

BY SHAUNA LEAVITT

When the U.S. Fish and Wildlife Service decided not to list the greater sage-grouse for protection under the Endangered Species Act in 2015, Terry Messmer, Utah State University Extension wildlife specialist and director of the Berryman Institute was surprisingly good with that decision.

It marked the end of a 10-year battle in which those who opposed each other put aside differences and began to work together through voluntary, incentive-based conservation.

That is what Messmer had been working towards for more than 20 years. He knew those who live in communities that comprise sage-grouse habitat were the ones who had the most at stake in the ultimate conservation of these birds. He knew that if it is not good for the community, it is not good for wildlife.

Messmer entered uncharted waters in 1996 when he drove to Dove Creek, Colorado, to attend the first of what now numbers in the hundreds of community meet-



ings and field tours. These meetings led to dozens of research and management projects focused on sage grouse.

In an effort to avoid duplicating work, Messmer and Dean Mitchell, the previous upland game coordinator with the Utah Division of Wildlife Resources (UDWR), met with Clait Braun, who had 23 years of sage grouse experience working for the Colorado Division of Wildlife. They were seeking his advice on how to engage local communities in sage-grouse conservation.

“You’re on your own,” Braun told them.

Initially surprised by the response, Messmer now says, “In reality it was the best advice he could have given us.”

Braun’s comments highlighted an important truth about sage-grouse conservation. Although sagebrush is the common denominator, essential to sage-grouse survival are managers who understand as much about the ecology of the birds as they do the needs of local communities — those who share the sagebrush landscapes.

“We realized early on, each of Utah’s sage-grouse populations were as unique as the local communities,” Messmer said. “For conservation and management to work, all involved have to be willing to learn together about the birds and their landscape.”

A cornerstone of Utah’s sage-grouse conservation efforts was the formation of the Utah Community-Based Conservation Program (CBCP) housed in the Quinney College of Natural Resources and USU Extension. The goal of CBCP is to build long-term relationships based on trust and enriched by immediate access to information obtained through a transparent research program. A program that focuses on seeking answers to questions asked during local working-group meetings.

In 1997, CBCP received its first infusion of funding when the Parker Mountain Grazing Association handed Messmer a \$3,000 check to buy radio-collars and begin a local sage-grouse research project designed to find out why local sage-grouse populations were in trouble.

The creation of Utah Local Working

Groups, or LWGs, was a key component for successfully engaging local communities in sage-grouse conservation.

Messmer, also a retired Army Colonel with multiple combat deployments, adapted lessons learned from war to conservation.

“A basic tenet of war is that an army can only move as fast as its slowest element,” he said. “The communities most affected by conservation decisions are this element. In war, I was not concerned about God, flag and country, I was concerned about keeping my soldiers alive.”

The same holds for conservation. When landowners make a choice between taking care of their livelihoods or participating in meetings about sagebrush or sage-grouse conservation, the livelihood always wins. A human or natural resources conservation strategy that does not embrace this reality will ultimately fail, Messmer said.

When asked whom they trusted most for information about sage grouse specifically, ranchers trusted ranchers, environmentalists trusted environmentalist, scientists trusted scientists and agency biologists trusted agency biologists.

The CBCP helped build the bridge of trust between these groups.



Terry Messmer: “For conservation to work, all involved must be willing to learn together.”

Sage grouse conservation efforts in Utah have been built on shared trust by the stakeholders — federal, state and local governments, land and wildlife agencies, private landowners, teachers, wildlife managers and others.



Stakeholders included federal, state and local governments, land and wildlife management agencies, private landowners, industry, environmental advocates, teachers, students and wildlife managers.

“Because the sage-grouse lands are often quite isolated, if the LWGs did not exist, the likelihood of the stakeholders joining together would be slim,” said Eric Thacker, USU Rangeland Management Extension specialist. Thacker, a former Messmer graduate student, cut his conservation teeth studying sage-grouse ecology in the west Box Elder LWGs area in northwestern Utah.

Utah has 11 CBCP local working groups.

“In Utah it’s customary for LWGs to be led by a local community member and facilitated by a USU Extension person,” said Dave Dahlgren, USU Rangeland Wildlife Habitat Extension specialist. Dahlgren, also a former Messmer graduate student, returned to USU as a faculty member. He now facilitates three community groups.

“When I enter the LWG meeting, I leave my research hat at the door,” Dahlgren said. “I’m not there to tell them what to do; I’m there to facilitate the discussions between the participants, identify their needs and those of sage grouse and to chart a process to answer those questions still unanswered.”

In 2013, the two decades of Utah LWG experiences were aggregated into Utah’s Greater Sage-Grouse Conserva-

tion Strategy. Utah’s plan became the LWGs plan. The plan embraces the local knowledge and the commitment of many partners to the role of community and voluntary incentives in conservation.

In February 2015, Utah Gov. Gary Herbert signed an executive order implementing the Utah Plan. The success of this plan was directly tied to the early involvement of local leadership. Their approach translated conservation planning and research to habitat management, and habitat management to population stability. The lessons learned and the mistakes made during this process became a new foundation for conservation.

A study completed by Lorien Belton, now a CBCP staff member, shed some important insights into the dynamics and organization of the LWGs that considered themselves successful. The characteristics shared by these groups included the involvement of a neutral facilitator and participant’s feelings of ownership.

Initially most local communities did not trust research in general or the scientists who were doing it. The phrase “best available science” to them meant the information used by others to regulate their livelihoods — trying to force on them a new vision of the West that did not include them.

But when stakeholders are able to meet with scientists and learn about the species in their backyard, they take ownership of the issue because they

understand the impact they have on the species. Once they understand this, they will often ask, “what more can we do?” said Michael Styler, director of Utah’s Department of Natural Resources.

“We’re there to listen to the stakeholders and determine why we should be concerned,” Messmer said. “We’re not there to tell them what they’re doing wrong.”

Once the local community understands the value of research, they are the ones insisting on seeing the data before making decisions.

“We’ve had group discussions spanning over several months where agency members were saying, ‘We should do this, or we should do that,’ and finally a landowner asks, ‘What does the science tell us?’” Messmer said.

With this level of involvement and planning, researchers and policy makers can avoid catching the local community off guard. Even if community members are not pleased with the final decisions, they understand why they are made.

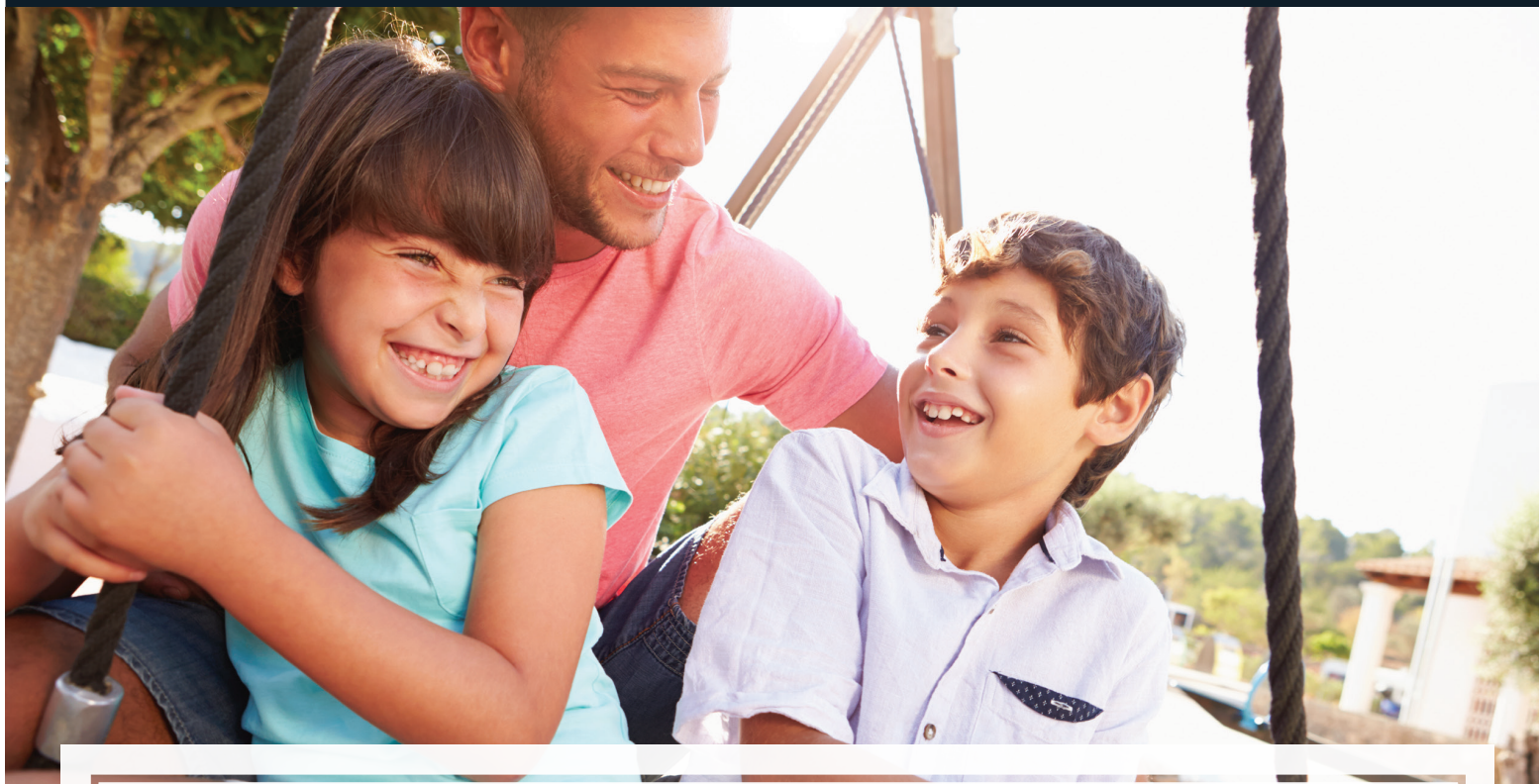
Federal and state agencies are increasingly seeking the knowledge and values of local communities because of the valuable cooperation they can provide to conservation and management. Successful relationships linked to exchange and transparency of information, common goals, enhanced understanding of policies and shared scientific discovery, collectively create a foundation for mutual trust.

If everyone agrees to conservation, then the focus changes from conflict to resolution — a good way to keep battles at bay.

Shauna Leavitt is with the Utah Cooperative Fish and Wildlife Research Unit in cooperation with the Quinney College of Natural Resources. She says those interested in learning more about the impact of Local Working Groups on sage grouse conservation in Utah can go to www.utahcbcp.org

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EXTENSION 
UtahStateUniversity



Dr. Eduardo Ortiz during a session with high school students.

INCREASING AWARENESS about Disability among UTAH REFUGEES

If you're gathering information, fostering leadership and spreading awareness about a taboo topic across cultures, there is one thing you don't want to do: Sound like the all-knowing, arrogant American.

Dr. Eduardo Ortiz, a researcher from the Center for Persons with Disabilities, was sure of that before he even began a project that ultimately shared awareness about disability among refugees in Salt Lake City. So he and other project leaders began their work by carefully choosing the research fellows who would work directly with refugee communities. They found two multi-lingual, educated women who were not born in the United States.

"By being a native Lebanese-American citizen who attended a French school and then married a Peruvian Latin-American citizen, I turned out to be a good link who can build bridges," Mireille Karam quipped during a presentation at the Associated University Centers on Disability conference in Washington, D.C. last December. She was one of the fellows who worked among six refugee communities in Salt Lake City.

Still, the project had some barriers to overcome in any language. "Disability is a very difficult subject to deal with," she said. "Lack of education, different cultures and backgrounds didn't make this work easy. It made some of these communities like shatter-proof shells. We worked hard to learn about their particularities, needs and challenges."

In addition to the CPD, the project brought in University Neighborhood Partners at the University of Utah and the Utah Regional Leadership for Excellence in Neuro-

developmental Disabilities as partners.

UNP's Teresa Molina was a co-investigator on the project. Team members worked together to foster leadership, but most of all, they focused on bringing out information from people within the communities themselves. They conducted six focus groups among the 50,000 refugees who have settled in Utah.

Rather than hire interpreters in academia, they found interpreters from among the refugees and trained them in research protocol. The result: better access to the people they were trying to reach. "We wanted to prepare the connection with them, that they could trust us," said Helene Kalala, a research fellow from the Republic of the Congo who worked on the project.

While it was time-consuming, the approach helped to overcome barriers to language and build relationships within the targeted communities. And together, the research team discovered that cultural attitudes vary with regard to disability—so much that the whole concept could be tricky to define across cultural lines. Those differences may help explain why the prevalence of autism spectrum disorder is more than 600 percent higher in white American communities than in other racial or ethnic groups.

“Some of them will define disability based upon religion, based upon culture,” Kalala said. “For them, disability is like, ‘This person has a disability because it is a curse from God.’ They thought they would stay home and do some ritual and go to church. Then it would go away.”

They did not believe it was a disability that could be cured or to look for services.

Some families were reluctant to admit that disability even existed within their members. “Some women will notice disabilities with their children, and they will stay silent,” Helene said. “They don’t want to talk about it because they believe their husband would like a wife that does not give birth to a child with a disability.”

Ortiz said some cultural practices might also affect disability within families. “It’s very common that people in Arabic communities marry cousins,” he said. “There are some issues related with disabilities in the children of these marriages.”

Some of the refugees they met had also experienced terrible things, opening up new questions about mental health across cultural lines. “Some of them come from a war place, and they have family members who are struggling with that,” Helene said. They didn’t want to believe they might have post-traumatic stress disorder.

Ortiz also wondered if, in places where trauma is commonplace, it is just more socially acceptable to talk about disturbing things. One thing he was certain of: while this particular project is over, the conversation about disability among

refugee cultures needs to continue.

He is working to start a new project that will help the effort become more self-sustaining.

After gathering information, the group assembled and distributed information that was tailored for each community. For those cultures where marriage between cousins is common, they offered information on how some disabilities are inherited, and how to access services. “We created information that says, you have resources you can use,” Ortiz said. “We can’t tell them, ‘You must do this,’ but we can tell them, ‘Here, we do this.’ ... At the end they were thankful for the information that we were sharing.”

The team also spoke to groups about the development of a typical child. “When we talk about the earlier signs of, for instance, autism, we also talk about the development of a child, from birth to when they go to school,” Helene said. “They understood, and with that we can tell them about the earlier signs of autism. It was something new to them.”

Along the way, Ortiz said the group learned from the people they set out to

serve. “This relationship is both ways,” he said. “They are learning, we are learning. ... Their way of life is different. It creates more questions to follow up and understand.”

For example, the concept of marriage and family changes across cultural lines. For some cultures, a marriage is a union between families, not just between two individuals. Changing the place of residence may affect how the refugees view family, and it may not. But Ortiz said our service systems needs to be able to see families from different points of view so that we can be more effective.

He came away convinced that first-generation immigrants are an underused resource, both inside and outside the disability world. He remembers a young woman in one of the focus groups with obvious leadership potential. “Her expectations were very high, but they were shaped by her experience,” he said. “We need to go beyond the accent, beyond the dress, to the strengths, that for whatever reason, we have the chance to use.”

— JoLynne Lyon ’92



Research fellow Mireille Karam (wearing the blue scarf) presented on the team’s work at the Associated University Centers on Disability conference last winter. She is pictured here with other AUCD research fellows from projects all over the United States. Photo courtesy of AUCD.

A LIBRARY LIFE

Gaylin Fuller '63 recently sent Utah State's Merrill-Cazier Library what he says was "a token donation," along with a letter saying the library had changed his life — "in a wonderful way."

So, of course, we needed to find out more.

Turns out Fuller has changed a few *hundred* lives himself. Over his career as director of libraries at what used to be Ricks College (now BYU-Idaho), at the University of Texas-Dallas and in Barrow, Alaska, he was able not only to open up the world through books, but to take care of a few other things along the way. During Fuller's time in Barrow, for example, the library book count went from 90 to well over 30,000, this after he figured out a way to finagle free acquisitions and then have an Alaska senator pay shipping on them.

Under Fuller's guidance a new library building was also built in Barrow, as was a community chapel, which was shipped up river by barge in four massive sections. It required some "earnest prayer," Fuller says, because with the semi-annual barge full of supplies already heading toward the northernmost city in the United States, the river there had yet to experience ice off that year.

The ice broke on the day the barge arrived, and a large crane was able to place the four sections precisely atop the pylons Fuller and friends had already secured into the frozen ground.

The governor of Alaska asked Fuller to serve on the state library board, an assignment that had him analyzing libraries and their efficiencies from Prudhoe Bay to Fairbanks and every small-town library in between. He even served two separate stints in Barrow as the interim president



Shown here on his small farm near Dayton, Idaho, Gaylin Fuller has left his fingerprints on libraries and their patrons across the country.

"I JUST THINK THIS IS HILARIOUS," FULLER SAYS.

"I'M JUST A FARM BOY UP HERE IN DAYTON, IDAHO.

FIRST WE'RE *HUMANS IN NEW YORK*, THEN A TV PROGRAM,
NOW A MAGAZINE. SOMETHING'S GOING ON.

CAN'T A GUY JUST RETIRE IN PEACE?!"

of Iḷisaḡvik College, which, he's happy to say, boosted his retirement greatly.

With his wife, Edna, Fuller has raised 11 children, 10 boys and a girl — two doctors, three lawyers, a few MBAs and two who have followed in their father's footsteps through the quiet aisles with degrees in library science.

These days, Fuller can mostly be found on his 56-acre hobby farm, along the Bear River, near Dayton, Idaho. He's hosted up to 10 Boy Scout troops at a time there, and to those in need, has donated 5,000+ lbs. of potatoes, several hundred ears of corn and a few hundred pumpkins to kids in the community in each of the last three years.

When *Humans of New York* found the Fullers sitting on a bench enjoying lunch in Central Park, more than half a million people from some 40 countries around the globe responded with a hardy "like." Another academic institution is currently working on a short television program on the Fullers' time in Alaska and now this — his photo in *Utah State* magazine.

"I just think this is hilarious," Fuller says. "I'm just a farm boy up here in Dayton, Idaho. First we're *Humans in New York*, then a TV program, now a magazine. Something's going on. Can't a guy just retire in peace?!"

Well ... no, we say. At least not after leaving his fingerprints on thousands of books and just as many hearts, strung out all over the country. After all, a guy's gotta pay his dues.

— Jared Thayne '99

to Utah State Univ.
Just a quick note to tell you why I
want this money to go to the library.
I worked at the library in 1962-63 in
my senior year there. It changed my life.
My boss was Dick Chappell. He was a
wonderful man as well as my boss.
He convinced me that being a librarian
was a good profession. He arranged
for myself and two other students to
go to Pratt Institute in Brooklyn, New York
to get a masters in Library Science.
He also helped us get jobs in the
Brooklyn Public Library to help pay our
expenses. My first two sons were born
in Brooklyn. My lifetime career as
a librarian has been wonderful. I served
8 years as head librarian at Ricks College.
3 years as Associate Director at the
Univ. of Texas at Dallas and 17 years
in Alaska. Librarians don't get a huge
retirement but my time at USU sure
changed my life in a wonderful way.
Thank you. Gaylin A. Fuller

Life-changing
letter, sent to
USU with a
token donation
to the library.



Debra Moore and her husband, Jimmy, who as a former standout basketball player, an alum, parent of alumni and committed employee has honestly earned the title, Mr. Aggie.

More than a GAME

Appreciating the
Motivations of
Jimmy Moore,
USU's
"Mr. Aggie"

JIMMY MOORE AND HIS WIFE, DEBRA, ATTEND EVERY GAME. THEY SIT IN SECTION E OF THE DEE GLEN SMITH SPECTRUM, NEXT TO THE STUDENT SECTION.

He's not one to yell at the referees or the opposing team, instead providing commentary and critiques on his favorite player on the team this year, the senior with the afro and the crisp "14" on his jersey.

As he watches the game, Jimmy's voice rises, almost accidentally, like he forgets how loud he can be. "You need to calm down," Debra gently reminds him. "People around you don't see the game how you see it."

She's right. He has decades of experience with the sport, including three years playing in this same building. His is a knowledge of the game shaped over many years as a player, coach and spectator.

But Jimmy Moore's passion comes from a deeper place — the sport has made an indelible mark on his life. Basketball provided Jimmy Moore an opportunity for his education, his career and best of all, he says, his family. Debra agrees.

"I can't ever say it's just a game," she said. "Because it's not."

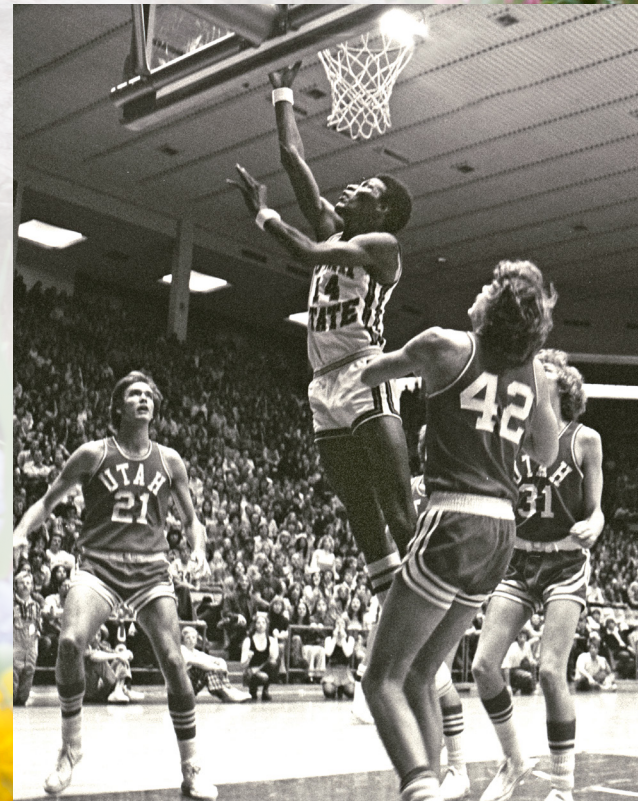
"He Never Takes Anything for Granted"

The "Gateway to the Chickasawhay" the town's website proudly claims, the way all small communities lay hold on any tidbit to sound unique. The referred-to gateway is Leakesville, population 898, and the Chickasawhay is one of the many rivers that flows through southeastern Mississippi.

It's the kind of place where "Main Street" is the only street and outsiders only find the town if they're looking.

Dale Brown was looking.

The year was 1970 and Leakesville had something most small towns don't have — one of the best high school basketball players in the state. Brown, then an assistant coach at Utah State, wanted Jimmy "Shimmy" Moore on his team.



Grayson, Debra, Jalen and Jimmy Moore at USU senior night 2017. Jimmy has always told his sons, “no matter what, just finish your education; basketball can only take you so far.”

Donna Barry university photographer.



“I kept thinking to myself, ‘I hope people don’t find out about him because they don’t know how good he can be,’” Brown said.

He was long and tall — measuring in at 6-foot-7 while in college — with a 43-inch vertical that earned him the nickname “Jumpin’ Jimmy Moore during his days in Aggie blue.

“After I met his family,” Brown said, “I thought, ‘That’s exactly the kind of guy I want to coach.’”

But it was more than the on-court potential that so intrigued the coach.

“There was just a sensitivity, a gentleness, an honesty about him,” Brown said. “I don’t have a ouija board, I’m not a savant but I’ve just been around kids long enough. I knew he was going to be a success.”

Jimmy lived in humble circumstances growing up, sharing a home with his parents and 11 siblings.

“They were so poor,” Debra said. “It’s so sad — they didn’t even have meat.”

On the rare occasion the family was able to afford bacon, Debra said, Jimmy’s mother would give it to their father so he would have the energy to work. The grease would then be put into the gravy or poured onto some biscuits so the children could at least get the flavor of the meat.

“When he told me that it just broke my heart,” Debra said. “He never takes anything for granted.”

Segregation was still prominent in the South at that time — the school system in Leakesville didn’t integrate until 1969, a decade and a half after Brown v. Board of Education.

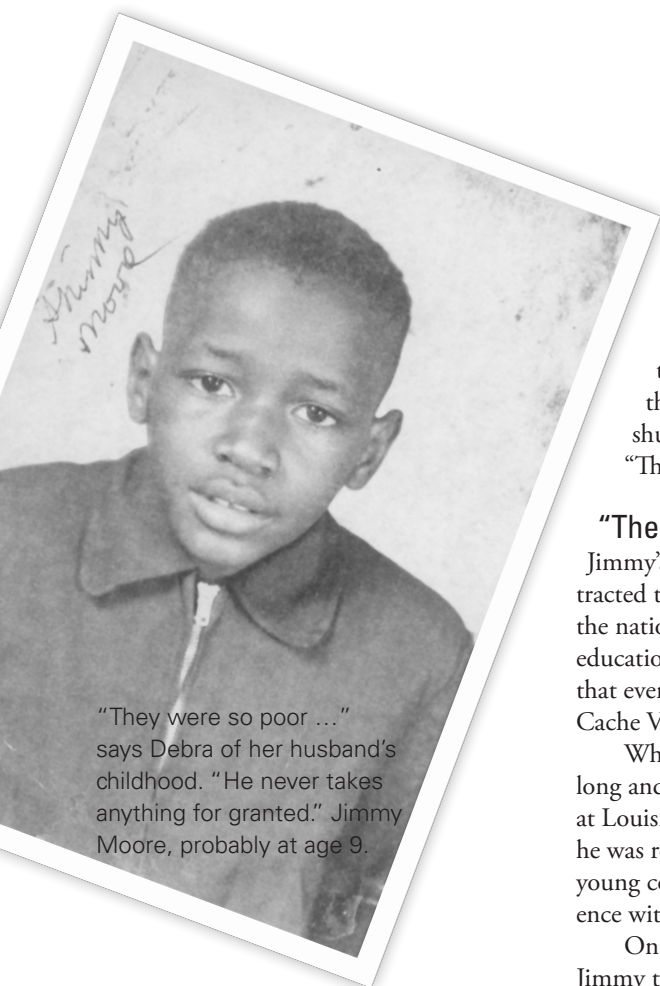
“You grow up in those things and you see it every day. It’s a part of that culture you live in, and you learn to adjust and deal with it,” Jimmy said. “Then

when you go away and you become a different person, you come back and you go, ‘Wow, I can’t believe some of the stuff that I had to endure as a kid.’”

“Where I lived, in my community, I could throw a football or a baseball and hit the closest high school to my house, but we couldn’t go to school there because it’s what they call a ‘white school,’” Jimmy remembers. “We had to bus 10 miles away to go to our school. We were walking past the school all the time, but we couldn’t go there.”

At the beginning of his junior year, Jimmy and his teammates were finally allowed to attend Leakesville High School. Not everyone on the team, though, was allowed to join.

“I’ll never forget, man, we had this coach and he was like our father,” Jimmy said. “He was the kind of guy you’d jump out a window for.”



"They were so poor ..." says Debra of her husband's childhood. "He never takes anything for granted." Jimmy Moore, probably at age 9.

With the students attending different schools, teachers and coaches were shuffled around within the school system to meet the changing needs. Leakesville was the largest school in the area and it seemed only natural that the most successful coach in the system would be sent there. Instead, he was assigned to one of the smallest schools in the county.

"I tell you what, you talk about broken-hearted people," Jimmy says. "He was never the same. It just took his heart."

"He was never the same."

The systemic racism showed up on the basketball court as well. During the state tournament one year, Leakesville High squared off against Sumrall High.

"I don't think they had a black person in that gym or a black person in that community," Jimmy said.

Every time Jimmy or one of his teammates would score, the other team would start hurling epithets at them.

"It was 'n----- this and n----- that' the whole game. 'N----- where's your mom at?' and that kind of stuff," Jimmy

remembers. "I was the captain and I looked at the referee — I'll never forget this — I said to the referee, 'Do you hear what this guy's saying?' He goes, 'Oh shut up n----- and just play'. "That's what I came from."

"The Better Road"

Jimmy's basketball skills are what attracted the attention of schools around the nation, but it was Brown and the educational opportunities at Utah State that eventually brought Jimmy to Cache Valley.

While Brown would later have a long and successful head coaching career at Louisiana State University, at the time he was recruiting "Shimmy" Moore, the young coach hadn't yet had much experience with the South.

On one recruiting trip, Brown took Jimmy to one of the local diners for a meal. When they got to the restaurant, Jimmy finally worked up the courage to tell the coach that he couldn't get food there — they wouldn't serve him.

'He goes, 'Get out of here!'" Jimmy remembers, "'You've got to be s----- me, right?' And I go, 'No, I'm serious.' And he goes, 'That's bulls---, we're going in today.'"

The two of them walked into the restaurant, Jimmy nervously following Brown. The cook turned around to welcome the guests, but stopped cold when she saw Jimmy.

She began speaking to Brown.

"How can I help you? He knows we don't serve his kind in here," Jimmy remembers. "Oh, I'd never felt so small in my life. I was so embarrassed."

"I went to the window really angry," Brown said. "I had my body about half-way in the window. And I said, 'I'm not moving from this window until I get my damn chicken.'"

He was unsuccessful at shutting down the restaurant like he threatened, but the incident still left an impact on the coach.

"HE'S DONE WHAT MOST
PEOPLE COULDN'T DO ... ALL
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TO COME DOWN THE BETTER
ROAD."

— Coach Dale Brown on
USU's Jimmy Moore

"I thought, when I left that little town, 'You know what, he's done what most people couldn't do,'" Brown said. "All the horrendous racism that was going on at that time, he chose instead of going down the bitter road, to come down the better road."

Those experiences endeared the assistant coach to Jimmy, leaving USU as one of the five schools he took official visits to before committing. The visit to Logan sealed the deal.

Each of the other schools, Jimmy said, spent the majority of the visit pitching him on the quality of the basketball program and the success he and the team could have if he played there.

Utah State, on the other hand, took him to meetings with academic advisers and professors, not even showing him the basketball arena until the night before he flew back to Mississippi.

"I was going back," Jimmy said, "I'm on the plane and I'm thinking, 'That was

one of the most boring trips I've had.' Then it was weird, it was almost like somebody was sitting next to me, and it goes, 'But what was different about it?'"

By the time he talked to his parents that night, Jimmy's mind was made up.

"Basketball Can Only Take You So Far"

While basketball has been a wonderful and important part of his life, it's the things basketball has provided that truly motivate him, Jimmy said.

The opportunity for an education is something that most people in Leakesville didn't get at that time. Jimmy went on to earn a bachelor's degree in physical education and, after a 12-year professional basketball career in the NBA and Europe, a master's degree in education.

"Utah State really wanted him to come play sports and be educated," said Jalen Moore, Jimmy's son, the senior on the basketball team. "I think that's where he turned the table and was like, 'I want

to go there and be successful in life and be successful after.'"

Jimmy has shared that mindset with both of his sons.

"Something he would always tell me and Jalen is, no matter what, just finish your education," said Grayson Moore, who graduated from USU last year. "He would always say basketball can only take you so far."

At the end of his international career, Jimmy took a position as an assistant coach at Utah State. He was later hired to work in the admissions office at the university before moving to the athletic department in 2011.

He's "Mr. Aggie," said Jana Doggett, the executive associate athletic director at USU. "Alum, parent of alums, obviously a committed employee — a lot of his life has been about the Aggies."

Jimmy sees his work now as a way to give back to the place that gave him so much.

"I love my job," Jimmy said. "I'm sure there's no one in this athletic depart-

"I LOVE MY JOB," JIMMY SAID.

"I'M SURE THERE'S NO ONE IN

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WHO HAS MORE OF A

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ATHLETICS AND THE UNIVERSITY

— THAN I DO."



ment who has more of a passion for Aggies — athletics and the university — than I do.”

In his time in admissions and now working with student-athletes, Jimmy uses his experiences to explain how appreciative he is of the opportunities he was given.

“Utah State has been good to me,” he said. “That’s what motivates me to get up in the morning, to see if I can make a difference, whether that be in a student-athlete’s life or in a student’s life.”

The only thing in life that rivals his love for the university, Jimmy said, is his love for his family.

“Really a Good Man”

Debra met Jimmy in 1990, while he was an assistant coach at Utah State. She was living in Salt Lake City then, working at a law firm, and didn’t know about Jimmy’s legendary basketball career with the Aggies. He asked her to dance one night (“He has that deep low voice,” she said, “and I looked up and I’m like ‘Oh, sure!’”) and they were married three months later.

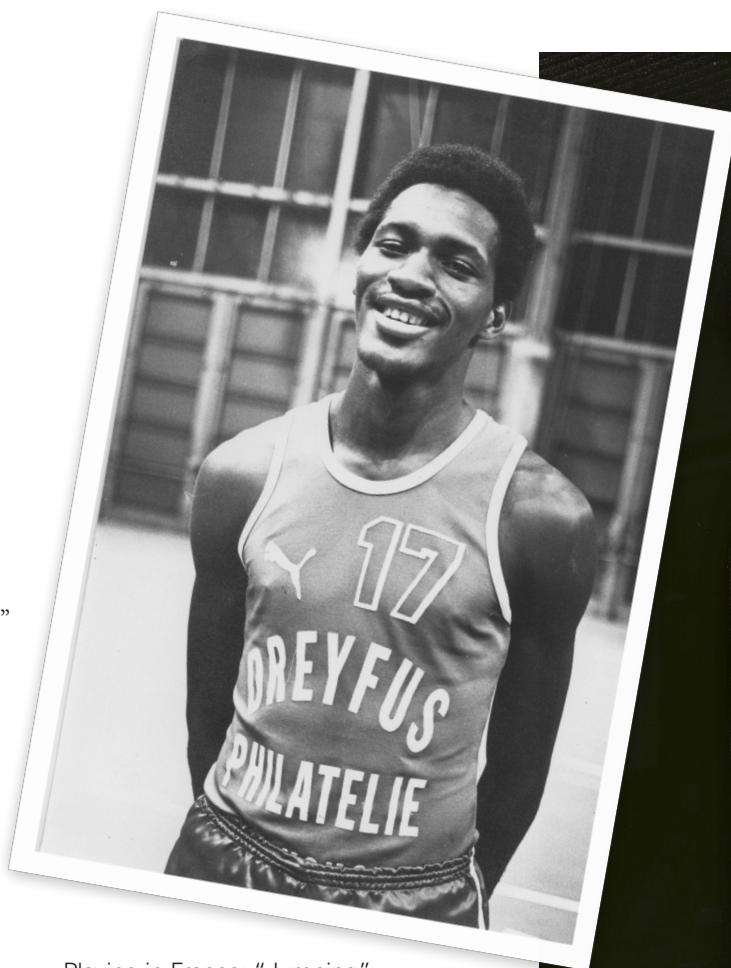
“They’re the same person,” Jalen said. “They love each other.”

Within a few years, the family had doubled in size — first Grayson, then Jalen. The boys, naturally, were taught to love basketball and grew up playing the sport.

Now, more than two decades later, Grayson has graduated and Jalen will soon join him. A long-lasting memory for the family will be the opportunity the two boys had to play on the same team during the 2015-2016 season.

“That was a main goal of mine and Grayson’s growing up and it was something our dad really wanted to see happen,” Jalen said. “It was awesome to be on the court at the same time as my brother, looking up and seeing our mom and dad.”

Jalen has made his own marks on the Utah State record books in his time at the school, passing his father on the all-time scoring list during the 2015 season.



Playing in France: “Jumping” Jimmy Moore, 1978-79.

“I think he was more happy for me to pass him than he was for reaching that in his career, and that means a lot,” Jalen said. “My dad’s helped us so much in our lives and we can’t ever pay him back for that.”

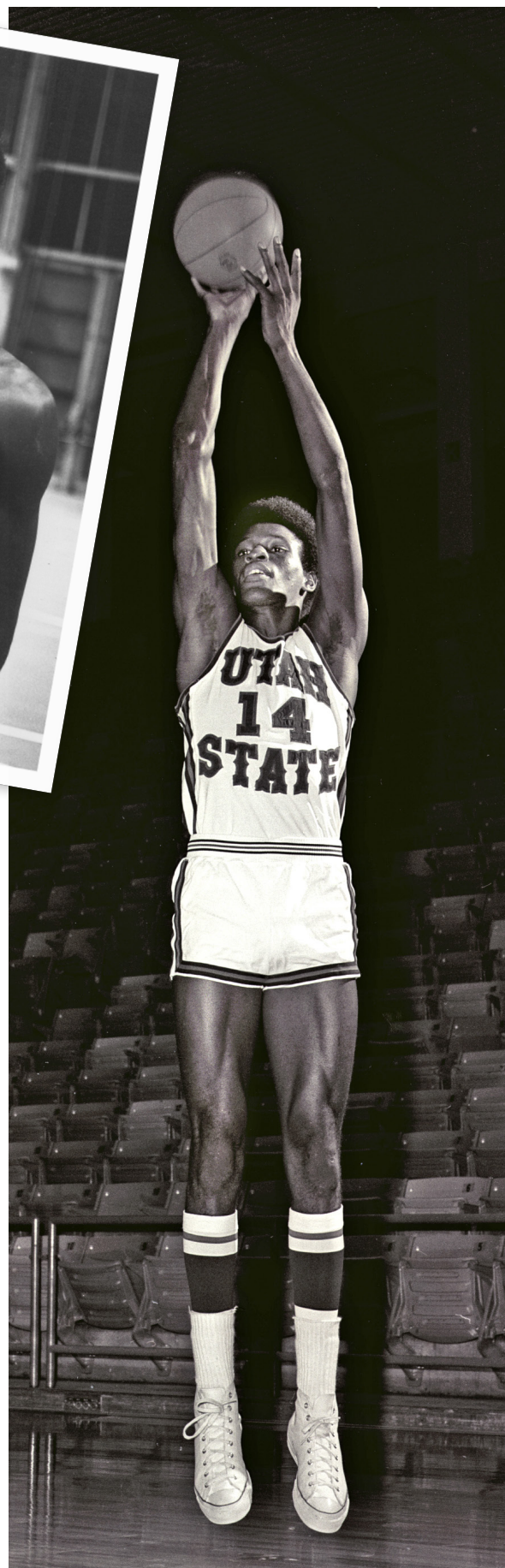
As Jalen put on the Utah State uniform for the final time this season, Jimmy Moore’s legacy, in a way, came full circle.

But as those who know him best will say, his legacy is so much more than just his accomplishments with the university.

“I hope people realize what an outstanding man he is,” Brown said. “He’s really a good man.”

“I would have been very proud to have Jimmy Moore as my son.”

This story was written by Thomas Sorenson, managing editor of Utah State University’s student newspaper, The Utah Statesman. It originally appeared in the March 2, 2017 edition.





Their human-sized hearts make goats excellent models for USU's Irina Polejaeva (above). Her research on quivering or irregular heartbeats is in partnership with Ravi Ranjan, from the University of Utah School of Medicine. Atrial Fibrillation can lead to blood clots, stroke and heart failure.

Photos by Donna Barry

Close to the Heart

Goat Model Study Takes On Heart Arrhythmia

SCIENTISTS FROM UTAH STATE UNIVERSITY AND THE UNIVERSITY OF UTAH HAVE DEVELOPED A NEW ANIMAL MODEL TO BETTER UNDERSTAND ATRIAL FIBRILLATION, THE MOST COMMON TYPE OF HEART ARRHYTHMIA.

Irina Polejaeva in USU's College of Agriculture and Applied Sciences, and Ravi Ranjan, from the U of U School of Medicine, lead a team of researchers that have created the first transgenic goat model for atrial fibrillation. Their findings were published in the *Journal of Cardiovascular Electrophysiology*. They also presented last fall before scientists from industry and academia. They focused on genetically engineered large animals as models to help understand and find cures to human diseases (see related story).

According to Polejaeva, associate professor in USU's Department of Animal, Dairy and Veterinary Sciences, there are typically two types of models used in cardiology: transgenic mouse models commonly used to understand gene function, and large animal models including pigs, goats and dogs that are not genetically modified.

"What we've done is combine these two approaches," Polejaeva said. "We produced a transgenic large animal model, which makes several conditions much more reproducible because it is similar to a human-sized heart."

Now the researchers are studying the relationship between atrial fibrillation and

cardiac fibrosis, the formation of excess fibrous connective tissue in the heart that lowers its functionality. This condition is commonly associated with atrial fibrillation, though the exact relationship is unclear. The transgenic goats have more fibrous heart tissue in comparison to typical goats.

Polejaeva said with atrial fibrillation affecting upwards of 2.7 million adults in America and causing an irregular, rapid heartbeat, fainting, chest pain, stroke, heart failure and other serious health problems, there was a need for a more effective way to study these heart conditions.

"This goat model, that closely and uniquely resembles the human disease, provides a unique platform to study and

gain a mechanistic understanding of how fibrosis makes these hearts more susceptible to atrial fibrillation,” said Ranjan, doctor and associate professor in the Division of Cardiovascular Medicine and clinical electro physiologist at the U of U.

According to Ranjan, this model will play a key role in developing new drugs, examining device-related treatments and identifying the best timing and duration of preventative treatments.

The Utah Science Technology and Research Initiative (USTAR), the Utah Agricultural Experiment Station and the American Heart Association currently fund the project.

Other researchers involved in the successful collaboration and co-authors on the report are: Christopher Davies, Misha Regouski, Justin Hall, Aaron Olsen, Quinggang Meng, Heloisa Rutigliano, Aaron Thomas, Rusty Stott, Kip Panter Arnaud VanWettere, John Stevens, Zhongde Wang and Kenneth White at Utah State University; Derek Dossdall, Nathan Angel, Frank Sachse, Thomas Seidel, Rob Macleod and Nassir Marrouche at the University of Utah; Pamela Lee, Washington State University College of Veterinary Medicine.

— Shelby Ruud

USU Leading Out in Large Animal Studies

Advances in understanding the genomes of numerous species of animals, and the development of tools to modify them, have accelerated rapidly in the past decade. So rapidly that regulations and research funding haven't always kept pace. Genetically modified animals are being used worldwide as models for understanding many diseases, including Alzheimer's, heart arrhythmia and Parkinson's disease.

Last September, Utah State University's College of Agriculture and Applied Sciences (CAAS) and the Utah Agricultural Experiment Station (UAES) organized a conference that brought together scientists from industry and academia who are developing or using genetically engineered large animals. The Large Animal Genetic Engineering Summit provided a forum for discussing funding mechanisms and regulations with participants from the National Institutes of Health, United States Department of Agriculture and the Federal Drug Administration, and to learn about new approaches to research from scientists from around the world.

The summit focused primarily on work with sheep, goats and pigs. While those may not seem like large animals to most people, they are much larger than the most widely used laboratory animals — mice. There are many benefits to working with larger animal models, for example, their organs are more nearly the size of their human counterparts. But working with large animals presents challenges too, including the fact that they simply require more specialized facilities and more space than do rodents. That is a challenge land-grant universities like USU, with an established history of working with livestock, are equipped to manage.

Among the presentations at the summit were reports of research related to cardiac function, cancer, cystic fibrosis and diabetes, production of therapeutic antibodies, improved disease resistance in animals and efficient genome editing.

The meeting's organizers, Associate Professor Irina Polejaeva, Research Associate Professor and Associate Director of the UAES, Chris Davies, and Professor and CAAS Associate Dean for Research DeeVon Bailey, felt that USU was uniquely positioned to organize a meeting to bring together scientists and federal officials interested in the rapidly evolving field of large animal genetic engineering.

“USU is a leader in the development of genetically modified small ruminants for biomedical research,” Davies said. “We believe that the development of better animal models for biomedical research will lead to new breakthroughs in the treatment of debilitating diseases. We also recognize the tremendous responsibility that we have as research scientists to understand the consequences of what we are doing and to protect the welfare of the animals that we work with. We want to make sure that our research is conducted in an ethical manner that will ultimately contribute to human and animal health and reduce suffering.”

— Lynnette Harris '88





USU Eastern's Chandler Vincent, No. 1 welder in the nation, spot-on ready for October's WorldSkills championship in Abu Dhabi.



Top in the Nation, Eye on Abu Dhabi

FUSING PASSION FOR WELDING INTO LOVE OF LEARNING

By Susan Polster

Photos by Tyson Chappell

A FEW DAYS AFTER HIS 19TH BIRTHDAY, A UTAH STATE UNIVERSITY EASTERN STUDENT RELAXED IN HIS INSTRUCTOR'S OFFICE WITH A BIG GRIN. HE DESCRIBED HOW, AS A KID, HE HATED SCHOOL, YET HE IS NOW THE TOP WELDER IN THE UNITED STATES.

It happened in late February when USU Eastern's Chandler Vincent and his welding instructor Mason Winters flew to Huntsville, Alabama, for the U.S. Open Welding Trials. He had been there in November where the top-six welders were scaled down to three. He returned in January where the top-three welders practiced with welding experts. And, again, in February to compete for the top spot.

After four days of nonstop welding, he was declared the USA WorldSkills welding champion — a feat never achieved by anyone from USU Eastern.

Winters, a former College of Eastern Utah student, was named the second-best welder in 2009 as was Jeremiah Garcia, who was named second-best welder in 2007. No one had ever been named No. 1 in the nation from USU Eastern until Vincent, a freshman, claimed the prize to represent the United States in the WorldSkills championships in Abu Dhabi, United Arab Emirates, in October 2017.

Since the 2016 fall semester, Vincent welded 10 hours a day, seven days a week. The only time he did not follow his intense regiment is when he took a half day off to spend Christmas morning with his family in Roosevelt, then returned to Price to practice welding that afternoon.



Chandler Vincent (right) credits his instructor Mason Winters (left) with his rise to becoming the top welder in the nation.

"THE BIGGEST THING THAT I HAVE LEARNED
FROM THIS PROGRAM, IS LEARNING HOW TO LEARN," HE SAID.

"I LEARN FROM MY OWN MISTAKES AND BETTER MYSELF
FROM THE THINGS THAT I HAVE SCREWED UP.
I THOUGHT I WAS PRETTY GOOD AT WELDING AND
THOUGHT I KNEW EVERYTHING. I CAME HERE AND
IT WAS A BIG AWAKENING FOR ME."

He credits his instructor, Winters, who told him that he would have to yield to this regimented schedule if he wanted to compete with the elite welders in the nation. And he did every day for seven months, including missing every major holiday except that half-day of Christmas.

"Everyone at the competition was insanely talented," he said. "I am always happy, not stressed out. I adapted to the challenge that I had during the competition without stressing out. I stayed calm. I'm a pretty happy guy and doing something I love." It just so happens now that Vincent is the best in the nation doing something he loves.

Winters and Vincent have more in common other than their love for welding with both being first-generation-college students. They both also hated high school and never thought they would graduate, let alone attend college.

All Vincent wanted to do was hunt and be in the outdoors when he was

in high school. He loathed school and wanted to drop out. His mother begged him to continue his education and take just one class he loved. At 15 years old, he registered for a welding class at the Uintah Basin Applied Technology College and the rest is history. Winter's story paralleled Vincent's: "I failed every class my sophomore year in high school and then I found welding."

Both Winters and Vincent attended USU Eastern's High School Welding Competition and both won it, thus receiving scholarships to the welding program. With those wins, it put them on the radar by the USU Eastern instructors to compete, first at the state level, and eventually qualify for the national level. Winters and Vincent both won gold at state and headed to the national welding competition.

The parallelism of the two Uintah Basin natives stops when Vincent did what Winters failed to do — bring home the U.S. Welding Trials title. With that title, he won a \$40,000 scholarship and tools from the American Welding Society.

Reflecting upon the program, Vincent said, "I think welders coming out of this program are way above average on the knowledge and welding techniques. There are definitely top-grade welders coming out of Eastern." When practicing for the competition, he said he likes to choose projects that he is not good at and perfect them.

Philosophically, he is wise beyond his years. He advises students to, "Push yourself to the limits and soon you will find you have none. I had no purpose for math, no purpose for anything. I was a kid who didn't want to do anything but go hunting every day of my life. I didn't care about the future until I found welding and then I was like, 'holy crap, I am going to need this now.'"

Vincent cannot say enough good about the welding department at USU Eastern and its instructors.

"The biggest thing that I have learned from this program, is learning how to learn," he said. "I learn from my own mistakes and better myself from the things

that I have screwed up. I thought I was pretty good at welding and thought I knew everything. I came here and it was a big awakening for me."

His instructors opened a huge world on the theory side for him, he said, adding that he now better understands the workings of metal and the power in the machines.

"These instructors definitely teach a one-of-a-kind program," he said. "What the students learn will last them a lifetime. I have seen a lot of people in the industry think they know what is going on and there are a lot of problems that can be solved coming out of this program. Besides making great welders, the instructors develop character here."

The best part about the instructors at USU Eastern are they are top in their field, he said. Winters graduated from CEU and Weber State University, worked as an engineer in California three years before returning to Utah to join the faculty at USU Eastern.

Austin Welch is also an alumni of the USU Eastern welding program and a Weber welding engineering technology graduate. He was part of a three-person team in the welding fabrication contest that won nationals once in high school and twice for USU Eastern in 2011-12.

Professor Lon Youngberg, who holds a doctorate, came to USU Eastern after spending years in the welding industry before coming to Utah to teach.

Vincent also has praise for his teachers outside the welding department. He hopes to earn his associate degree as well as AAS degree in welding, but with all his traveling to the competitions, it has taken a toll on attendance in his classes outside of welding.

"Faculty on this campus have been really supportive about it," he said. "They know what I am going through. I had a really important math test last week that I missed and the instructor is giving me the time that I need to take it."

Before Vincent earns his degree, his passport will be stamped from Russia, Australia, China and Abu Dhabi to

compete in their national competitions. In the United States, he will attend the national SkillsUSA competition in Louisville, Kentucky; practice at the Lincoln Training Center in Cleveland, Ohio and spend a week with Ray Connolly, the last American to win gold at the World Skills Championship in 1999, in St. Louis, Missouri.

Connolly was on USU Eastern's campus for two days a few years ago. He worked with the instructors and students and is familiar with how USU Eastern welding department teaches its students.

Discussing Vincent is easy for his instructors who realize what a big deal it is to have the top welder in the country on their campus.

"He is obviously talented, but talent does not get this," Youngberg said. "A whole lot of work does. We see students with a lot of potential and skills, but putting together skill with desire and opportunity is where Vincent is able to shine and make it work."

Welch agrees, "A medal on the national scale is amazing. One has to realize that there is not a higher level of competition than Vincent has achieved. This is the pinnacle. There is not a higher sanctioning body than this in the U.S."

He said Vincent is an extraordinary young man, a rare combination of raw talent, skill and work ethic, who is humble, coachable. "Sometimes you see people with talent levels that are high. They know how good they are and they are a little bit abrasive to advise. Vincent is exactly the opposite."

As one watches Vincent smile and converse during his interviews, the word humble best describes him. He talks about his gratitude for his family, his instructors, his girlfriend and anyone who has had a positive influence on his life.

"Find your passion," he said. "If you find your passion and work hard towards your goals, there is nothing that is impossible...nothing that you can't achieve with hard work. There are no limits."



Ken Carpenter photos



Fremont Pithouse SET ABLAZE

A COUPLE ISSUES BACK IN UTAH STATE MAGAZINE, KEN CARPENTER AND TIM RILEY VOWED TO BURN TO THE GROUND A FREMONT PITHOUSE REPLICA THAT THEY PAINTASTIKALLY BUILT. IN MARCH, THEY KEPT THEIR PROMISE.

Now they are excavating the site and plan to publish the results.

Just as they were curious about what it takes to construct such a dwelling, they were equally interested in what it requires to burn one down since they already knew that most of these ancient dwellings met fiery fates. Why that is, they still are not certain, but their own act of arson did confirm one important hunch: these blazing benedictions were likely not accidental.

Carpenter is the director of Utah State University Eastern Prehistoric Museum and curator of paleontology. Riley is an anthropologist and prehistoric museum archaeology curator. In 2014, they decided to build a replica of a pithouse in a field adjacent to Carpenter's house six miles south of Price, Utah. They did so to help them find answers to questions that they could not find in literature.

From dust to dust: Ken Carpenter peering into a Fremont Pithouse replica that he and colleague Tim Riley built in 2014. In March they intentionally set the earthen structure ablaze to simulate the fiery fate by which many of these ancient dwellings succumbed. In seven stages, Carpenter documents its undoing.



Thanks to their replica, they now know, for example, that a pithouse is relatively roomy and light inside. It remains comfortably cool in the summer and warm in the winter. They also know that building such a house takes at least 485 man-hours — not exactly a weekend project.

These are insights that have proven invaluable to Riley in his work at an actual Fremont pithouse excavation site near East Carbon, 20 miles outside of Price. While it is good to have a better understanding of what it took to build a pithouse, Riley and Carpenter know there may be even more value in understanding what happens when one is destroyed. Not only do they learn how much time and effort it requires to reduce one to ashes, they also gain a better understanding of what happens to artifacts in fires. What emerges from the ashes of their replica may shed light on the bits and pieces they uncover at actual excavations.

The house burning was set for March 21st, weather permitting. To prepare for the event, they salted the inside of the structure with materials common to Fremonts, including leather items, baskets, food items, dried corn, gourds hanging from the ceiling, sleeping mats, and ceramic pots. They also packed one side with dried branches and weeds.

On the appointed day at exactly 9:30 a.m., they lit their torches made of dried weeds tied to sticks and turned them on the house. Just as Carpenter surmised, the torches alone were not enough. “The Great Burn is turning into the minor smolder,” he reported at 10:13 a.m.

“The dried weeds we added this morning burned rapidly, but did not ignite the underlying willow and tree

branches inside.”

Carpenter and Riley huddled. Maybe they should try coating the wood with lard, since animal fats would have been available to the Fremont. It took a while for Riley to warm up to this idea. “He did not want to yesterday during the set up, but he is now off to Walmart while I give you this update,” Carpenter wrote.

During the interim, Carpenter punched six small air holes around the sides of the structure. When Riley returned, he smeared lard on the posts and on some of the wood beams. They decided to start a small campfire next to the doorway and to knock the fire into the pithouse.

“That got a small fire going inside, which then got bigger as the lard caught and the air was pulled into the holes,” Carpenter observed. “From the outside, smoke started coming out of the ground in several places as the stockpiled branches caught fire. Then the support beams caught fire, as could be seen through the holes.”

By 11:40 a.m., the imperiled pithouse collapsed. It was sudden, according to Carpenter, with the cave-in starting at the side where they had stockpiled the dead branches.

“We only did half to see what influence added branches would have,” he said. “We were surprised how little dirt we could see in the pit and think much of it rolled off during the collapse and will be found under the charcoal once Tim starts excavating.”

Carpenter’s last dispatch came after 5 p.m. summarizing the events of the day,

capped with some early conclusions.

For one thing, it’s not easy to burn one of these things down, he said. It’s unlikely the Fremonts could have done it without some accelerant in the form of animal fat to help get the fire started. The Fremonts may have punched holes into the sides of the pithouse they were going to burn to get oxygen to the interior to keep the fire from dying.

“This later point got me thinking about the possibility that the Fremonts may have constructed pithouses with one or more small vents lined with slabs of rock to get oxygen into the pithouse in the winter when a small fire was going all day long,” he wrote. “A piece of hide hanging from the ceiling in front of the opening would act as an air deflector. Tim at first did not like that hypothesis, but eventually talked himself around to it. The prediction would be small stone slabs clustered near the edge of the pithouse ruin, assuming it wasn’t wood lined.”

And just like that, they are off and rebuilding what they burned down, if only in their minds. The phrase, “got me thinking,” is the reward of their labors. These two work best when they are looking back and connecting dots they had not seen before. They have built their careers on reconstructing the past. This house of mud and wood is far from being destroyed by fire, its form has merely changed into a medium better suited for an archeologist. These scholars are in their element when sifting through the soil. That is when the fire really begins to burn.

— John DeVilbiss



That burden of fact-checking has shifted to individuals, said Napier-Pierce. Another quick poll showed that her USU listeners agreed. A quarter of the USU audience tweeted that government

Through April 15, 2017

or the technology itself bears responsibility for curtailing fake news.

Seventy-five percent, however, accepted Napier-Pierce's challenge to "take on the role of responsible media consumers."

Huntsman offered the last admonition: "I hope that as you look at news sites that you ask these questions: Has it been properly vetted? Is it properly sourced? Is there someone who's really checking the facts?"

Traditional newspapers, he added, "have a built-in infrastructure to provide the greatest amount of integrity and facts as they can."

— Janelle Hyatt

1930s

Maurice Hancey '39 Att, May 28, UT
Gordon S. Olsen '37, Feb. 15, WA
Kathleen S. Rabb '39, Feb. 28, UT

1940s

Elaine Sandberg Adams '42, Mar. 10, UT
Dee L. Andreasen '40 Att, Mar. 19, ID
Peggy Thorpe Baer '46 Att, Mar. 26, UT
Hyla M. Bartholomew (Robson) '47, Jan. 24, UT
Lamont L. Bennett '43, Feb. 5, UT
Betty B. Bowne (Wight) '49, Apr. 4, UT
Lois Carlson Brewer '48 Att, Mar. 11, UT
Lawrence G. Cannell '49, '53MS, Apr. 8, TX
Carol S. Cooley '45, Apr. 4, UT
Gwen K. Fitzgerald '49 Att, Apr. 12, UT
Leo E. Fredrickson '49, '60MS, Dec. 24, ID
Don R. Gowers '42, '43, Mar. 4, UT

Clark Greenhalgh '41, Jun. 9, UT
Stanley R. Hunt '49, Jan. 29, UT
Margaret Izatt James '47, Feb. 26, UT
Dean S. McNeil '45 Att, Apr. 8, WI
Reed L. Nielson '46 Att, Mar. 9, UT
Rosalie C. Oates (Wolf) '45, Feb. 13, OR
Richard L. Pugsley '43, Mar. 9, ID
Elaine Reisner '49, Mar. 28, UT
Carma Sanders (Buehler) '45 Att, Feb. 26, UT
Adele Beutler Schaub '44, Feb. 8, UT
L. Jay Smith '49, '66MFA, Feb. 2, UT
Albert S. Wagstaff '46 Att, Feb. 24, UT
Sharon Thompson Ward '47 Att, Mar. 26, ID
Ema L. Whitworth (Zollinger) '49 Att, Mar. 17, UT

1950s

Wanda Israelsen Allen '58, Apr. 6, UT
Marian Hurst Bair '50 Att, Feb. 20, CA
Bruce J. Barton '50 Att, Feb. 11, UT
Thomas R. Beeston '52, Mar. 18, UT
Adrian Darrell Blau '57, Jan. 26, UT
Maxine Howells Blotter '50, Apr. 5, OH
James D. Bridges '57 Att, Jan. 28, UT
Lee R. Broderick '50 Att, Apr. 10, UT
Ralph B. Burk '57, Mar. 3, UT
John Linton Chidester '50 Att, Sept. 6, UT
Leah P. Christensen (Dunford) '55, Mar. 9, UT
Ralph C. Cisco '59, Jan. 24, ID
Ellen Clark (Mackay) '52 Att, Mar. 27, UT
Frank A. Condie '53, '54MS, Mar. 23, UT
Richard R. Cragun '59 Att, Apr. 5, UT
Wayne R. Crook '57, Mar. 3, UT
Douglas R. Cummings '57, Feb. 13, UT
Marion Doctor (Johnson) '59 Att, Mar. 11, MS
Paul P. Dyreng '50 Att, Feb. 5, UT
Edwin B. Fair '59, Mar. 17, TN
Bill F. Farnsworth '54MS, Feb. 25, UT
Miles Y. Ferry '54, Mar. 31, UT
Keller A. Gleason '51 Att, Dec. 13, WY
Gayla F. Green '52, Mar. 12, UT
Oertel Hansen (Hadley) '57, Feb. 16, UT
James Maurice Harris '52, '53MS, Mar. 16, UT
Robert H. Haworth '53 Att, Feb. 23, ID
Gertrude H. Hipa '54, Feb. 18
Leroy D. Johnson '59, Apr. 6, UT
Robert E. Johnson '55, Feb. 26, WA
William Knowles '53, Mar. 25, OR
Arnold D. Kruse '58, Feb. 6, ND
AlReta Y. Larson (Yack) '57, Feb. 20, MT
Edward W. Lawler '50, Apr. 3, ME
Robert E. McKenna '50, Apr. 5, UT
Elaine Melcomian (Willie) '56 Att, Feb. 19, UT
Everett H. Mietzner '50, Mar. 2, WA
Calvin Gene Miller '53, Feb. 14, UT
Robert W. Molen '51, Mar. 16, TX
Lou J. Nelson '56, Feb. 24, UT
Marilyn V. Nielsen (Miller) '57, Nov. 29, MD
Clair N. Olsen '57, '66MED, Mar. 31, UT
Lamont Pearce '50, Mar. 28, UT
Arnold Joseph Peart '59, Mar. 7, UT
Larry V. Perkins '59, Mar. 10, UT
Larry N. Poulsen '54, Feb. 15, UT
Lt Col J. Golden Poulson '52, Mar. 31, UT
Helen Price (Budge) '59, Mar. 9, UT
Earl C. Reed '51, Feb. 24, UT
Barbara Jean Rindlisbacher (Tucker) '56, Apr. 7, UT
Myrna Nelson Robertson '53, Apr. 9, CA
Leo M. Robins '51 Att, Mar. 19, UT
Thorald H. Rollins '56, Mar. 16, UT
Manon Caine Russell '53, Apr. 3, UT
Patricia Burgener Russell '58, Mar. 1, UT
Norman L. Skanchy '51, Feb. 17, UT

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Lenora Skidmore (Bowen) '53, Feb. 9, UT

Gary Eugene Stokes '58, Feb. 14, UT
James W. Taylor '50, Feb. 25, UT
Darwin D. Terry '50, Mar. 25, UT
Reed Hill Thatcher '57, Feb. 4, UT
Ruth Thomson (Smith) '59, Mar. 13, UT
Paul Heber Tingey '54, Mar. 17, UT
Nedra F. Torgesen '56 Att, Jan. 28, ID
Dominic A. Welch '57, Feb. 15, UT
David P. Wilson '56EDD, Feb. 12, UT
Charlene L. Winters '58, Mar. 14, CA

1960s

Tosh Aoki '60, Mar. 22, UT
Kenneth T. Bladen '66 Att, Mar. 22, UT
Richard F. Brecht '64, '67MS, Mar. 31, UT

Denver E. Erickson '68, Oct. 21, ID
Athel M. Gardner '61, Feb. 10, TX
Arnell Heaps '67 Att, Mar. 3, UT
Mervin R. Iverson '60, Feb. 4, NV
Alfred W. Jensen '63, Apr. 1, ID
Oleta Diann Lambert (Larsen) '60, Jan. 31, UT

Norman L. Maero '66 Att, Mar. 25, UT
David S. Messinger '69, Jan. 31, ID
Joel Scott Miller '66, Apr. 8, CA
Colonel Joseph Miller, Jr. '69MBA, Mar. 22, TX

John E. Mills '63, Mar. 11, OR
Thomas G. Nelson '65MS, Feb. 6, UT
Emmanuel Oddoye '68, Jul. 28, 2016, TN
Henry Pearson '68PHD, Mar. 9, TX
William A. Peters '65, Feb. 11, MD
Donna Stansfield Pitt '69, Mar. 5, UT
William R. Quayle '67, Mar. 5, OH
Kent B. Sanders '61, Apr. 6, UT
Dale L. Smethurst '63, Mar. 9, UT
Dwain L. Sylvester '65, Feb. 27, UT
Terry R. Taylor '68, Mar. 19, UT
Gerald O. Tolman '63, Apr. 9, ID
Ronald L. Webster '65, Mar. 24, UT
Lynn F. Williams '61, Jan. 27, MT
Hyrum F. Wilson '60 Att, Feb. 27, UT

1970s

Philip E. Butler '79, Mar. 15, CA
Peter D. Campbell '79, '81, Mar. 29, UT
Ray Frost '75 Att, Feb. 3, UT
Kent Fuellenbach '71, Mar. 13, ID
Marie Green Halpin '76, '77MS, Mar. 7, UT
Marilyn M. Hash (Henriksen) '79MS, Mar. 20, UT

George M. Johnson '74, Feb. 7, WA
Vicky Kaletta Kemp '73, Jan. 29, FL
Janet Quebec Lancaster '74, Mar. 19, UT
Jeffrey L. Lawson '77, Feb. 3, CO
Gary T. Logan '75MBA, Dec. 1, UT
Thomas P. Matthews '72, Feb. 27, ID
Judy E. May '70, Nov. 30, UT
Sheryl Meek Molitor '72, Mar. 6, TX
Donald R. Nielsen '74 Att, Feb. 11, UT
Gregory A. Nielsen '78, Feb. 12, UT
Roma N. Powell '75, '83MED, Feb. 8, UT
Barbara T. Steuble '76 Att, Apr. 5, CA
Richard H. Thomas '74 Att, Mar. 29, UT
Gregg P. Wakefield '73 Att, Feb. 18, UT

1980s

Karl R. Becker '81 Att, Apr. 7, ID
Glen Biesinger '84, Apr. 7, UT
Chad H. Blackham '85, Apr. 11, UT
Geoffrey R. Brugger '82MS, Mar. 24, UT
Denise T. Green '87, Mar. 20, AL
Thomas R. Greider '82MS, '86PHD, Feb. 4, KY
Karen Jensen (Cooper) '81, '87MED, Apr. 9, ID
Layne McClure '83 Att, Mar. 5, UT

Ann Pierucci '85, Mar. 8, AZ
Richard S. Stout '87, '91, Apr. 1, MT
Ann W. Timothy '83MED, Feb. 2, UT
Donald R. Wilkins, Jr. '85, Feb. 28, UT
Steve Williams '89, Feb. 25, UT

1990s

David D. Anderson '96, Mar. 4, FL
Eli M. Clark '97PHD, Feb. 11, UT
David E. Featherstone '97PHD, Jan. 28, IL
Craig A. Jensen '92, Mar. 13, VT
Sam L. Johnson '99MFA, Mar. 20, ID
Brett Graham Mackay '90, Feb. 16, UT
Alonzo B. Pierce '93, Jan. 28, UT
Corine L. Sayler '91MED, Mar. 8, UT
Linda Montoya Velasco '92, Mar. 15, TX

2000s

Garet B. Barney '04, Mar. 20, WA
John A. Chambers '04, Jan. 27, UT
Pamela L. Child '00MED, Feb. 5, UT
Clayton C. Christensen '04, Feb. 18, UT
Cecilia R. Norton '08 Att, Mar. 15, UT
Ellen Noelle O'Hara '08, '09MED, Jul. 1, UT
Carolyn Price '08 Att, Apr. 3, AZ
Bryan D. Sisson '04PHD, Jan. 21, UT

2010s

James Adams '14 Att, Mar. 31, UT
Jaime Brady Feb. 28, UT
Jeremy David Downs '16 Att, Apr. 11, UT
Kortney Gardner Feb. 25, UT
Robert Dansie Higbee '16, Mar. 8, UT
Jace R. Johanson '10 Att, Feb. 13, UT
Ammon E. Vogt '15 Att, Mar. 9, UT

FRIENDS

Dick Ackley Feb. 2, UT
Stanley L. Allen, Jr. Feb. 4, UT
Mark Allred Jan. 28, UT
Ted J. Alsop Mar. 12, UT
Lynn K. Angus Jan. 29, UT
Saige Aramaki Feb. 2, UT
Ralph A. Archibald Mar. 3, UT
JoAnn Buchanan Barham Feb. 27, UT
Dolores H. Barratt Mar. 12, UT
JaCina Barrett Apr. 6, UT
Sidney Baucom Mar. 16, UT
Sherman A. Beck Feb. 18, UT
Coralie Beyers (McCarty) Feb. 17, UT
Garth M. Blanch Apr. 3, UT
John Bloomberg Feb. 22, UT
Harriet Blum Jan. 29, MD
Faye F. Branson Feb. 9, UT
Wayne Brickey Apr. 10, UT
Tami Carnahan Feb. 20, UT
Evan Chesley Mar. 10, UT
Ivan Cowley Apr. 5, UT
George Francis Apr. 5, UT
Charles Frankel Feb. 3, AZ
Leland J. Frei Jan. 28, UT
Gerald H. Friedell May 21, MN
Valerie S. Gessel (Smith) Mar. 18, UT
Ralph Gissemann Feb. 2, UT
Doris Gras Feb. 19, UT
Jerald Greaves Mar. 17, UT
Morris R. Griffin Feb. 14, CA
Maxine T. Grimm Feb. 10, UT
Janice A. Hamilton Jan. 30, UT
Judy Hancey Apr. 4, UT
Veda Ann Hansen (Holdsworth) Feb. 28, UT
Annita Harmon Jan. 9, ID
Shirley A. Henderson Feb. 25, UT
Esther Hillegass Mar. 22, UT
Mackinnon Hinkley Mar. 12
George S. Hoar Mar. 8, UT
Margarette Hottel Apr. 3, UT
Clifford C. Huggins Mar. 15, WY

Ronald Humphries Apr. 5, UT
Cleve N. Hyer Mar. 5, UT
Maxine James Apr. 3, UT
Clyde Jensen Feb. 9, UT
Doreen R. Johnson Mar. 23, UT
Rick Johnson Feb. 23, UT
Wendell O. Johnson Mar. 29, UT
Mary Jolley Jan. 30, UT
Lowell Jones Jan. 28, UT
Sally Jones Apr. 5, UT
Joe Judd Mar. 22, UT
Bonnie H. Judkins Mar. 17, UT
Lorraine H. Kimber Mar. 10, UT
James Larsen Feb. 15, UT
Lila Larsen Feb. 4, UT
Mary H. Larsen (Heath) Feb. 5, UT
James Laws Feb. 7, UT
Gregg Lawton Mar. 8, UT
Brent Leatham Feb. 9, UT
Max Lowe Mar. 9, UT
Robert A. Madsen Feb. 2, UT
Arline Markosian Mar. 2, UT
Boyd Martindale Mar. 17, UT
Sego Matsumiya Feb. 21, UT
Margaret Missos Feb. 17, UT
Hal Moffitt Mar. 10, UT
Ruth F. Morgan Mar. 19, UT
Haymer D. Morris Feb. 24, UT
Royal Morris Jan. 6, UT
David L. Mumford Apr. 10, UT
Earline W. Nelson Feb. 15, UT
Walter N. Nickel Feb. 10, UT
Fern B. Oberhansly Feb. 2, UT
JoAnn Stockburger Olsen Mar. 28, UT
Robert N. Olsen Feb. 27, UT
Carol Oresick Mar. 27, UT
Randy R. Pace Mar. 8, UT
David Penrose Mar. 30, UT
David Malin Perry Mar. 8, UT
Donald Peterson Feb. 13, UT
Shanda Pitman Apr. 15, UT
Frankie Price Apr. 3, UT
Michael Rasmussen Jan. 28, UT
Brian A. Rau Jan. 27, UT
H. DeLoy Reid Jan. 31, UT
Barbara Robertson Apr. 4, UT
Robert Routh Mar. 16, UT
June M. Schofield Apr. 9, UT
Robert Scholes Feb. 20, UT
David Seamons Mar. 15, UT
Leone N. Sorensen Feb. 3, UT
J. Lynn Spindler Feb. 22, UT
Diane B. Taylor Feb. 6, UT
Roy D. Tea Mar. 17, UT
Eloise Toolson Mar. 15, UT
LaVora Tucker Jan. 30, IN
Milton Valora Apr. 7, UT
Mark VanRoosendaal Jun. 17, UT
David Wadman Feb. 3, UT
Charles B. Walker Feb. 20, UT
Allen Warren Mar. 12, UT
Terrance Welling Feb. 4, UT
Claudia Wigington Feb. 21, UT
Ralph Wilks Mar. 1, MI
Douglas C. Woodbury Mar. 26, UT
Ramona Woodhead Mar. 23, UT
Leslie D. Zike Feb. 20, UT

ATTENDERS

Gary Vail Adams Att, Feb. 10
Geraldine Andersen Att, Feb. 8
Alice Spillman Anderson Att, Apr. 6
Iona Andrus Att, Feb. 17
David A. Armstrong Att, Mar. 2, UT
Merlene Asay Att, Feb. 28, UT
Don Wayne Babcock Att, Mar. 4, UT
Ray McKay Bateman Att, Mar. 17
Zina Jean Bateman Att, Apr. 9
Don G. Baxter Att, Feb. 28, UT
Jim Bearnsen Att, Mar. 20, UT
Elaine Stuart Beck Att, Mar. 22
Carla Black Att, Dec. 10, UT

Ray G. Bohn Att, Feb. 18
DeAnn C. Boyle Att, Feb. 9
Nancy C. Bradford Att, Feb. 19, UT
Mary Elizabeth Burgess Apr. 6, UT
Joseph David Christensen Att, Feb. 23, UT
Anna Paulina Clifford Att, Apr. 2
Thelma Elizabeth Coles Att, Feb. 27
Robert Hilton Critchfield Att, Mar. 6
Chad Curley Att, Mar. 31, UT
Donald Russell Dean Att, Mar. 23
Joyce Durbano Att, Feb. 19
Marian Ellingford Att, Mar. 30
Lujan Evans Att, Apr. 6, UT
Monty Edmund Faulkner Att, Feb. 28, ID
Linda Funk Att, Mar. 31, UT
Erik J. Gray '20 Att, Feb. 10, UT
Duane S. Guymon Att, Apr. 10, UT
Mary L. Halbostad Att, Feb. 10
Benita A. Hansen Att, Mar. 24, UT
James S. Hansen Att, Mar. 18, UT
Louise Hansen (Busetto) Att, Mar. 30, UT
Yvonne B. Hansen Att, Mar. 15
Betsy Thomson Hatt Att, Mar. 6
Robert E. Havlish Att, Mar. 29
Gene Stanton Hawkes Att, Mar. 6, UT
Guy William Heder Att, Jan. 19
Emmett Swan Heinrich Att, Mar. 4, UT
Robert A. Hendry Att, Jan. 25
Donald Wayne Hill Att, Feb. 13
Jon R. Hokanson Att, Feb. 28
Joseph Humphreys Att, Mar. 30
Rae M. Jacobsen Att, Apr. 3
Doris Lilly Janson Att, Mar. 31
Neal Richard Jensen Att, Feb. 24, UT
Irene Jensen Att, Feb. 18
Blake L. Jones Att, Mar. 1, UT
Caleb Blake Jones Att, Jan. 29, UT
Judy Elvira Kelley Att, Nov. 30
Jill Cole Kulander Att, Feb. 22, UT
Marie LeFevre Att, Feb. 3
Tony T. Magann Att, Mar. 13, UT
James Anthony Marsh Att, Mar. 6
Gayle A. McDonald Att, Apr. 6, UT
Nelson Rae McFarland Att, Feb. 19
Dennis McMurdie Att, Mar. 7
Dale Ann Briggs Mearian Att, Mar. 6
George Melissas Att, Mar. 4
Roxanne W. Miser Att, Mar. 13
Ralph D. Moosman Att, Feb. 22, UT
Ralph Bartlett Morrill Att, Jan. 28
Ray Muhlestein Att, Feb. 11, UT
Shirley Francis Nielsen Att, Apr. 3
John Alton Peterson Att, Mar. 23
Joseph Pierce Att, Jan. 11
Jolene Westmoreland Price Att, Feb. 19, UT
Clinton Young Scothern Att, Feb. 1
Linden D. Seamons Att, Mar. 8
Pete Steven Shuput Att, Feb. 4, UT
Todd L. Sorenson Att, Feb. 18
John W. Spader Att, Mar. 25, UT
Beth Claire Stewart Att, Jan. 24
James Joseph Stritzer Att, Apr. 7
Raymond L. Tallman Att, Feb. 19
Cathy Eileen Thompson Att, Mar. 31
Edward Nelson Timmerman Att, Feb. 3
Marc Trenery Apr. 1, UT
Carol Ware Att, Feb. 19, UT
Phyllis A. Wheeler Att, Jan. 29, UT
Maurine F. Wilde Att, Feb. 10
Lavon S. Willey Att, Mar. 24
DeAnn Orison Williams Att, Feb. 8
Lillie Margaret Williams (Foster) Att, Mar. 6, UT
Tara Lee Zmerzikar Mar. 13, ID

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