

UVU Magazine



TRAGEDY & TRIUMPH

An international student's journey leads her to UVU and ignites her passion for peace and justice studies.

ALSO INSIDE \\\

P.R. STUDENTS MAKING THEIR MARK \\\ PG. 12

TIM DOYLE DETECTS CANCER \\\ PG. 26

DISCOVER YOUR OPTIONS



UVU NORTH @ WESTLAKE

Evening courses at Westlake High School in Saratoga Springs

UVU COURSES @ MATC-THANKSGIVING POINT

Day and evening courses at the MATC Building in Lehi

UVU SOUTH @ SPANISH FORK

Evening courses at Spanish Fork High School

UVU WEST @ THE NATIONAL GUARD BLDG.

Day and evening courses at the National Guard Building off Geneva Road in Orem

UVU WEEKEND COLLEGE

Friday evening and Saturday courses at the UVU Main Campus in Orem

UVU WASATCH CAMPUS

Day and evening courses in Heber Valley



uvu.edu/extend

UVU EXTENDED
STUDIES
UTAH VALLEY UNIVERSITY





**The boys of summer
are back in action!**



Senior Catcher
#44 Taylor Berg
from South Jordan, UT

STRONGER

Upcoming Home Games

-  Utah - 4/16 6:00 PM
-  Chicago State (future **WAC** opponent) - 4 game series from 4/26 - 4/28
-  BYU - 4/30 6:00 PM
-  NYIT - 4 game series from 5/9 - 5/11

***All home games played at Brent Brown Ballpark
For complete schedule visit WolverineGreen.com***



Like us on Facebook

PUBLISHER

Jeri L. Allphin '95

EXECUTIVE EDITOR

Chris Taylor '97

EDITOR-IN-CHIEF

Michael Rigert

ART DIRECTOR

Matt Bambrough '98

ASSISTANT EDITOR

Matt Reichman

ASSISTANT ART DIRECTOR

Katri Haycock '06

STAFF WRITERS

Cheryl Kamenski

Layton Shumway

Kaitlyn Tolman

PHOTOGRAPHY

Jacob Scott *(lead photographer)*

August Miller

Maria Corona '13

ILLUSTRATION & DESIGN

Amanda Boshard '11

Sam Hadlock '14

Landon Larsen '14

Brette Richmond '13

UVU MAGAZINE ONLINE

uvualumni.org/uvumagazine

PRODUCTION

University Marketing
& Communications

EDITORIAL BOARD

Marc Archambault

Curtis Blair

Curtis Morley '98

AD SALES

uvumagazine@uvu.edu

FEEDBACK

uvumagazine@uvu.edu

801-863-8179



BEHIND THE SCENES: EL CAMINO

UVU faculty help put the finishing touches on the new paint scheme for the UVU Wolverine Race Team's El Camino. This car is an icon for the automotive technology department and the University. See the final results in "Thru the Lens" on pg. 16.



DEPARTMENTS

- 4 PRESIDENT'S MESSAGE
- 4 UVU NEWS
- 8 VERBATIM
- 10 UVU ENGAGE
- 16 THRU THE LENS
- 19 DONOR SPOTLIGHT
- 32 Q & A
- 37 INFOGRAPHIK
- 38 ALUMNI NEWS



20



26



34

FEATURES

- 12** GOOD P.R.
UVU Department of Communication grads are making their mark professionally despite a tough job market and turbulent economy.
- 20** TRAGEDY & TRIUMPH
A determined UVU grad from East Africa overcomes a childhood of death and ethnic genocide to flourish as a scholar and a peace advocate.
- 26** SHEDDING NEW LIGHT ON CANCER
His wife's battle with breast cancer inspired UVU physics professor Tim Doyle to apply his rocket science experience to develop a promising new tool for cancer detection.
- 34** 20 YEARS OF SERVICE
UVU's Volunteer & Service-Learning Center celebrates two decades of providing engaged learning and volunteer opportunities for students and the community.

Spring Points to UVU's Bright Future



PHOTO BY GLEN RICKS/PHOTOGRAPHY

With the sunny skies of spring upon us, I cannot help but reflect on the remarkable strides UVU is making in spite of what has been one of our more challenging winter seasons.

Besides recent national economic and public policy changes, UVU has been affected in unique ways by the announcement from The Church of Jesus Christ of Latter-day Saints last fall reducing its age requirement for missionaries. While many faiths are represented on our campus, this historic announcement has already impacted a large swath of our student body and will continue to do so for the next couple of years. Since many students are now choosing to serve missions immediately following high school, the flow of tuition dollars has been altered quite significantly. Fortunately, we had prepared ourselves fiscally to handle any immediate changes to the budget this year, and we are finding innovative ways to navigate the next two years without compromising campus services and educational delivery. Furthermore, we are confident that most of these departing students will return to UVU.

Even amid this enrollment dip, we see that UVU continues to deliver on a truly unique educational mission of access and excellence. New enrollment policies still welcome every student who applies but have shown immediate signals of long-term gains in student retention and graduation rates. The Utah Legislature recently approved funding for a new 243,000-square-foot classroom building that will help us better accommodate our current 30,000-plus student body and will be completed at roughly the same time the wave of younger missionaries returns home. This structure, along with our new Student Life and Wellness Building that's slated to open in 2014, will be key in accommodating the more than 43,000 students we still expect to be enrolled at UVU by 2020. UVU also received the largest portion of "equity" funds allocated by the Utah Legislature this year as part of an ongoing effort to better align our budget with our growth and mission.

The commitment to UVU's mission — which expands and enhances its wide array of university programs while continuing to provide important community college functions for our region — is felt across campus. I am proud to report that in a recent survey from the Chronicle of Higher Education, UVU rated higher than all of its peers in terms of faculty and staff who felt "pride in working at the institution." In spite of the short-term challenges afoot, I remain as enthusiastic as ever about our future. The sun is shining brightly at UVU, thanks in no small part to your support as loyal alumni of this great institution.

Sincerely,

Matthew S. Holland
President



PHOTO BY AUGUST MILLER

ONE OF MIKE JACOBSEN'S MANY ACCOMPLISHMENTS IN HIS LONG TENURE AS UVU'S ATHLETIC DIRECTOR INCLUDED HELPING UVU GET AN INVITATION TO THE WESTERN ATHLETIC CONFERENCE.

UVU Athletic Director Mike Jacobsen Announces Retirement

After 29 years at Utah Valley University, Mike Jacobsen announced that he will retire as the school's athletic director on June 30.

Jacobsen has held the position since 1984, when UVU was known as Utah Technical College and employed only four part-time coaches and a work-study administrative assistant. Under Jacobsen's watch, UVU won numerous conference and regional titles, a national title in softball, made the first-ever direct leap from junior-college athletics to NCAA Division I status and earned an invitation to the Western Athletic Conference.

"Mike Jacobsen has been a great pioneer and extraordinary leader in building an exceptional Division I athletics program nearly from scratch," says Cory Duckworth, vice president of student affairs. "His accomplishments in this regard may be unparalleled in the history of sports in the state of Utah, if not nationally."

State Approves New UVU Classroom Building

Space has been at a premium at UVU for years, but the campus will be getting some relief soon.

The Utah State Legislature and Gov. Gary Herbert approved funding for a new \$54 million, 243,000-square-foot classroom building at UVU this spring.

“The Utah Legislature’s approval of funding for the new classroom building is a crucial win for UVU students, and we’re grateful for the governor’s and lawmakers’ support. I thank all those who have worked so diligently to make it a reality,” says UVU President Matthew S. Holland. “This new facility will help ensure that students and faculty members have the physical learning tools and atmosphere that is vital to student success.”

The building will contain 34 classrooms ranging in size from 40 to 330 seats as well as a 1,000-seat auditorium. The 18-month construction period on the facility, which will be located just north of the UVU Library, will begin this summer.



THE UTAH GOVERNOR AND LEGISLATURE RECENTLY APPROVED THE NEW \$54 MILLION CLASSROOM BUILDING AT UVU THAT WILL PROVIDE MUCH-NEEDED ACADEMIC SPACE FOR STUDENTS AND FACULTY. IT IS ANTICIPATED THAT A GROUNDBREAKING CEREMONY WILL BE HELD EARLY THIS SUMMER.

'I Have A Dream' Speech- writer Headlines MLK Commemoration at UVU

Attorney, civil rights adviser and speech-writer Clarence B. Jones delivered the keynote address at UVU’s 19th annual Martin Luther King Jr. Commemoration in January.

Jones, who helped King draft the well-known “I Have a Dream” speech, headlined the four-day event examining past and present equality issues. The commemoration also included 18 panel discussions with students and faculty, artistic performances and a screening of “To Kill a Mockingbird.”

Jones’ presence was doubly significant as the event marked the 50th anniversary of King’s famous 1963 speech.

“1963 is almost as important for civil rights in America as 1968,” says UVU professor of history William Cobb, referring to the year King was killed. “The speech helped convert middle-of-the-road Americans who felt that King was too extreme. The speech convinced people that this wasn’t about King, but rather, racism.”



PHOTO BY CONNOR ALLEN

CLARENCE B. JONES, ONE OF THE SPEECHWRITERS FOR MARTIN LUTHER KING JR.’S ICONIC 1963 “I HAVE A DREAM” SPEECH, SPOKE AT UVU’S ANNUAL MLK COMMEMORATION IN JANUARY ABOUT HIS EXPERIENCES WITH KING DURING THE 1960S.

PHOTO BY MARIA JOSÉ CORONA CASTILLO



PRESIDENT HOLLAND, BYU HISTORY PROFESSOR PAUL KERRY AND ROY GOODMAN OF THE AMERICAN PHILOSOPHICAL SOCIETY SPOKE IN FEBRUARY AT A CENTER FOR CONSTITUTIONAL STUDIES EVENT ON BENJAMIN FRANKLIN AND HOLLAND AND KERRY'S NEW BOOK ON THE INFLUENTIAL AMERICAN FOUNDER.

President Matthew S. Holland Publishes Book on 'Intellectual World of Benjamin Franklin'

UVU President Matthew S. Holland is already a well-known scholar in the field of early American political thought. Last December, he added to that reputation with the publication of "Benjamin Franklin's Intellectual World."

Co-written by Paul E. Kerry, assistant professor of history at BYU, the book details Franklin's role as a thinker in the early days of America.

"In large part, American and world history credits Benjamin Franklin as a man of action and for the very practical things that he accomplished as a Founding Father," Holland says. "This volume speaks of another facet of Franklin, considering him as a man of ideas, one who was shaped by and helped give shape to some of the key intellectual currents on both sides of the Atlantic."

UVU Hires Greg Maas as First Men's Soccer Coach

For UVU, entering the Western Athletic Conference was just the first step. The University took another by hiring former Real Salt Lake U-17 head coach Greg Maas to lead the only NCAA Division I men's soccer program in the state.

"This is another tremendous milestone in what is an already exciting time for Wolverine Athletics and our new men's soccer program," says UVU athletic director Mike Jacobsen. "Greg Maas is a leader with a tremendous passion for his craft. His knowledge



of the game is unprecedented, and I look forward to seeing this program grow to prominence under his direction."

Greg Maas has also served as technical director for the Utah Youth Soccer Association.

"[Maas] has proven himself to be professional, hardworking, always looking to innovate within the game, and most importantly, in my opinion, a terrific man," said Real Salt Lake head coach Jason Kreis.

The move will prepare UVU to compete in men's soccer during the 2014 season.

Anousheh Ansari, Three Others to Receive Honorary Doctoral Degrees from UVU

UVU will recognize Iranian-born "space ambassador" Anousheh Ansari and three others with honorary doctoral degrees at its 72nd commencement on April 25, 2013.

Ansari will also speak at the ceremony. She is the first self-funded woman to fly to the International Space Station and the first Iranian in space.

"It is an honor to have Anousheh Ansari address the graduating class of UVU," says UVU President Matthew S. Holland. "She has established herself as a steadfast advocate for the advancement of science and technology."

Other honorary degree recipients include philanthropist Doris Buffett, former Utah legislator and church leader Janette Hales Beckham, and JetBlue Airways founder David G. Neeleman.

"Each year we choose community members and leaders that represent and promote the values that UVU embraces," says President Holland. "Doris, Janette, David and Anousheh all provide a model for those characteristics and show UVU students and graduates the importance of following their dreams. We are very proud to have them join the UVU family."

Sustainability at UVU

UVU is seriously engaged in creating a more sustainable campus and community. To that effect, the university's Sustainability Committee has created a new website at uvu.edu/sustainability. The URL also serves as an online opportunity bulletin board of sorts to inform students and the public about continuing sustainability work for which they can volunteer and contribute.

Visitors can also check out sustainability tips and view UVU's Strategic Plan for Sustainable Practice.



Get one now!

We reward your school spirit!

REWARD YOURSELF!

B~ You deserve it!

Get money for spending money!

Earn points on your card for every dollar you spend at the Bookstore.

It's easy 😊

Register at www.uvu.edu/bookstore

Does not apply to departments, clubs, or any groups. Participants must have a UVU ID number.



In February of this year, Daniel Day-Lewis won an Academy Award for portraying Abraham Lincoln in his historic effort to secure passage of the 13th Amendment — which effectively ended slavery everywhere in this country. I suppose because some of my scholarship has focused on Lincoln, I regularly get asked about how accurate I think this portrayal was. The short answer is that, with only one or two exceptions, Day-Lewis' portrayal comports with much of what I have read in the best Lincoln research, as well as in the voluminous record of Lincoln's own writings. Of course, I am quick to add that what is even more remarkable than Day-Lewis' effort is the life that gave rise to making the film in the first place. The accomplishments and nature of Abraham Lincoln — especially during his presidential years — have been stirring the soul of this

country for a very long time. Yet, the memory of this man may be as important now as it has ever been.

As Day-Lewis was accepting his well-earned award, the general atmosphere of America seemed to hang with a gray weightiness and the temptation to be despondent about our future seemed nearly irresistible. Since then, things have gotten a bit better. We appear to have avoided falling completely off the “fiscal cliff.” Sequestration cuts are underway, but the market is on the mend. Or, so it seems. And yet, even with some of this good news, a general unease about our national health persists. As a state department official I recently met said to me, “I’ve been working in Washington, D.C., for 25 years, and I have to say, it is getting impossible to even get routine things done.” With the hardening of personal rancor and philosophical

differences in our public decision-making processes, we begin to doubt seriously our ability to even start to bridge, let alone actually bridge, the now epic gap between what we collectively give ourselves and what we collectively pay for. We debate, denigrate and dither, even as we look aghast at several European nations on the literal brink of collapse because of their own sustained, now even militant, resistance to bring expenditures and revenues into some rational proximity. Throw in the everyday fare of crime and violence in this nation, add a flurry of recent man-made and natural disasters, from Sandy Hook Elementary to Hurricane Sandy, and the rock of our republic seems, well, not so rock-like.

A common thread to most of these woes is a deeply troubling hostility between parties and people. In some

LINCOLN & A CIVIL SOCIETY

Perhaps the greatest message of Abraham Lincoln's stirring legacy is that love can, and must, transcend hate in the disagreements that develop as part of our ongoing national struggle to perpetuate a free and vibrant democratic republic.

BY PRESIDENT MATTHEW S. HOLLAND // PHOTOGRAPHY BY T.J. KIRKPATRICK

ways, this civic enmity suggests a threat more alarming than any posed by, say, fiscal profligacy itself.

As his “last communication” at the end of the Revolutionary War, George Washington issued a “Circular to the States,” wherein he signaled his virtually unprecedented act of relinquishing supreme military command in the face of a war victory that gave him immense international stature and unrivaled domestic power. In this extraordinary document, he also thoughtfully described for the fledgling country what he considered the key pillars of continuing independence and tranquility. The wise management of public credit is one such pillar. But, his final and most moving sentiments were reserved for his conviction that without “a brotherly affection and love for one another ... we can never hope to be a happy nation.”

The wonderful news is that, today, America is — as Mark Twain liked to say of Wagner's music — better than it sounds. The screaming headlines and endless cable news pronouncements notwithstanding, deep in the fabric of this country there still exists a rich spirit of liberty and love central to the preservation of the democratic order handed down to us by Washington and his fellow revolutionary founders. Evidence for this abounds in many places, including the production and subsequent commercial success of the movie “Lincoln” — one of the top-grossing films in the country during its release. I suggest this with the conviction that what drew audience after audience to see this film was not so much the chronicling of what Lincoln did — as important as all that was for freedom — but how he did it. Perhaps the greatest

thrust of this show and Day-Lewis' portrayal is an homage to Lincoln's ability to suffer through the constant bombardment of self-righteous re-creations from friends, family and enemies alike — yet still step forward in near miraculous fashion “with malice toward none, with charity for all.”

In doing so, this movie took us somewhere truly transcendent. And, in response, we, as a nation, filled the theaters and cried and clapped and came back for second showings.

As long as this is the case, as long as the chords of liberty and charity are intertwined with each other and strike the chambers of enough of our hearts with resonance and power, there remains a bright hope for this great country of ours, whatever our shortcomings and differences might be.



Woodbury Business Students Collaborate with Local Businesses on Training

Management students in Utah Valley University’s Woodbury School of Business are getting a major resume boost this year: the opportunity to work directly with professionals at local businesses like Zions Bank, Sundance Resort, Valley Mental Health and Xactware.

The school has created an innovative new program that offers relevant human resources training to employees of local companies and nonprofits.

“The hands-on experience helped to solidify the textbook learning and classroom teaching,” says UVU management student LaRae Bellows. “It was so rewarding to be able to test our skills in the real world.”

UVU students benefit from the opportunity to practice their curriculum with the kinds of companies they are aspiring to work for after graduation.

But UVU students aren’t the only ones profiting from this unique partnership. Karlyn Norton, human resources director at Xactware, says the cooperation between

UVU and Xactware has also given the software company a jumpstart on several projects and further resources to compete in its industry.

Student teams are also partnering with professionals at 1-800 Contacts, Habitat for Humanity and others to update employee handbooks, develop social media policy and create custom training materials.

Currently, UVU students in four business course sections taught by Bernd Kupka and Jonathan Westover are working on more than 30 separate projects for local clients. In addition to gaining hands-on experience with profitable companies, students in the program can add these projects to their portfolios — and gain valuable contacts in the local business sector.

“The experience provided measurable accomplishments that fit nicely in a resume,” says Bellows. “Working for a company like Sundance would equal a dream job for sure.”

And the feeling is mutual.

“If any of the students I worked with enter the H.R. arena,” Norton says, “they certainly will take with them great experience in researching, brainstorming and finding solutions in the real workplace.”



ABOVE: BERND KUPKA, CIVICALLY ENGAGED SCHOLAR WINNER.

TOP: UVU STUDENTS IN KUPKA'S HUMAN RESOURCES CLASS PRESENTED SPANISH-LANGUAGE TRAINING ON SAFE WINTER DRIVING TECHNIQUES TO EMPLOYEES AT SUNDANCE RESORT.



ABOVE LEFT: CHILDREN PRACTICE MOVEMENT AND FITNESS CONCEPTS TAUGHT BY THEIR UVU STUDENT TEACHERS.



ABOVE RIGHT: UVU STUDENTS PRESENT A PHYSICAL EDUCATION WORKSHOP TO A GROUP OF HOME-SCHOOLED CHILDREN AS PART OF THE UNIVERSITY'S UNIQUE P.E. PROGRAM.

P.E. Teacher Education Students Instruct Home School Groups

The sounds of dozens of children doing jumping jacks may be pretty typical at your local elementary school, but such structured group physical activity is harder to come by in home-school education.

Utah Valley University's physical education teacher education students are changing that for approximately 100 home-schooled children.

UVU's P.E. workshops are helpful for these children, ages 5 to 12, because physical education can be a particularly difficult subject to teach in the home, according to Shaunna McGhie, an exercise science and outdoor recreation professor at UVU.

McGhie started the unique workshop in 2010 to provide her students with appropriate teaching experiences and the opportunity to develop curriculum.

As part of their Methods of Teaching Elementary Physical Education class, groups of three to five students teach a P.E. workshop to groups of 20-25 children once a week. The children are divided into age groups and taught motor skills and movement and fitness concepts.

"It gives my kids an opportunity to learn new skills in a positive and friendly environment," says Allison Booth, who has three children participating in the workshop this year.

"I've really been impressed by the variety — and the fun," adds parent Amy McClean.

The workshop gives UVU students an opportunity to directly apply what they learn in class during the week. The groups provide feedback, assistance and support, but each student is responsible for two to four independent teaching assignments during the semester. They are also required to watch footage of themselves teaching to find ways they can improve.

And you'd be hard-pressed to find another group of students as dedicated to improving their skills as these students are. Sarah Walker, a P.E. teacher education major from West Jordan, Utah, is concerned with the lack of basic

exercise skills being taught to children in general. She says she joined the program to help children "find something they are interested in — that they're passionate about — so they can then take those skills and run with them for the rest of their lives."

Kayla Richmond, from Mt. Juliet, Tenn., says UVU's program is trying to change the way physical education is approached in schools. "Instead of saying, 'Here's a ball; go play,' we want to actually teach kids foundational skills for life."

The elementary P.E. workshop is helping these students put their goals to immediate practice. Booth, for one, is encouraged by the confidence her kids have gained since starting the workshop: "They have a greater desire to learn a skill, and then they come home, showing off the skill that they have learned."



good + P.R.

**UTAH VALLEY UNIVERSITY COMMUNICATION GRADS HAVE
THE VERSATILITY TO BEAT THE JOB MARKET'S LONG ODDS.**

by MATT REICHMAN
PHOTOGRAPHY *by* JACOB SCOTT

Nate Gray '11 learned the ropes of public relations as a student at Utah Valley University. He practiced pitching news stories in his P.R. campaign class. The finer points of AP style — how to properly abbreviate “Calif.,” for instance — were forever stamped into his memory in a mass media writing class.

But there are some things you can't totally prepare for, says the new public relations coordinator for the Venetian and Palazzo resorts in Las Vegas — like planning the public debut of a new breed of rose named after your resort (with “The Bachelor” host Chris Harrison as emcee). No matter, Gray says. His communication degree gave him all the tools he needed to learn on the go.

“Our alumni are able to adapt,” says UVU communication department chair Janet Colvin. “They're able to change with the market, change for jobs that haven't even been invented yet.”

Gray is one of many UVU communication grads of late to scoop up a primo P.R. position. The communication department has been on a tear as it enters its 10th anniversary: top honors in the 2012 state Golden Spike Awards, national faculty recognition and, above all,

employment of its alumni by the likes of other reputable organizations such as the Utah Jazz, Motor Trend magazine, Ancestry.com and the CONAN show.

“Amid a tight job market, UVU students are getting great offers across the nation,” UVU P.R. coordinator and assistant professor Stephen Whyte says.

ROLL WITH IT

Gray keeps a list on his desk of notable events and people he's hosted at the resorts in Las Vegas, Nev. “Later on down the road, I want to look back at this and relive it,” he says.

Less than six months after he started the job, the list read like an issue of *Us Weekly*: Emeril Lagasse, Tim McGraw and Faith Hill's “Soul2Soul” show, the “Glee” cast, “Shark Tank” and dozens more.

The Littleton, Colo., native has barely come up for air since joining the resorts' four-man P.R. crew, writing press releases, managing



"I WAS THROWN RIGHT INTO THE WATER," NATE GRAY '11 SAYS. "THERE WAS NO OTHER CHOICE. WE HAD ASSIGNMENTS THAT NEEDED TO BE DONE. BUT I'M BETTER AT WHAT I DO NOW BECAUSE OF THAT OPPORTUNITY."

photo requests, negotiating appearances with visiting celebrities and local news affiliates — the to-do list goes on.

"I was thrown right into the water," he says. "There was no other choice. We had assignments that needed to be done. But I'm better at what I do now because of that opportunity."

He says regardless of what he's asked to do now, he's not intimidated, having been immersed in plenty of practical, real-world scenarios while at UVU, including placing in the top 10 in the 2011 national Bateman Case Study Competition. The competition pitted five-man teams from 49 different schools against one another, each challenged to craft a strategic communication plan for a common theme (financial literacy).

"[Employers] are looking for somebody who is really passionate about what they want to do and gets the fundamentals," says Gray's supervisor, Keith Salwoski, executive director of public relations for the Venetian and Palazzo resorts. "Everything else just kind of fills itself in."



HIT THE GROUND RUNNING

Life came at Melissa Garrett '12 awfully fast when her boss went on maternity leave seven months after hiring her at Ancestry.com. It left the bulk of the corporate and tech P.R. duties — the company has 1,100 employees worldwide, so no small task — in Garrett's lap as a relatively new hire.

"Holding down the fort while she (her boss) was on leave was a great opportunity," says Garrett. "My boss feels confident in me enough to throw almost anything my way when she does not have the availability."

Her role as a P.R. specialist for the online family history service normally centers on managing the company's reputation from technology- and business-related perspectives. "Most people don't think of Ancestry as a tech company, but we're dealing with over four petabytes of data and 11 billion searchable records," she says. That's why she's continually helping to pitch business announcements and press releases — getting coverage in CIO and GigaOM, for instance — prepping company leaders



LEFT, ABOVE: NATE GRAY '11 TAKES A BREAK FROM HIS DUTIES AS A P.R. COORDINATOR FOR THE VENETIAN AND PALAZZO RESORTS IN LAS VEGAS, NEV.
LEFT, BELOW: ANCESTRY.COM P.R. SPECIALIST MELISSA GARRETT '12 AT HER COMPANY'S PROVO, UTAH, HEADQUARTERS.



BELOW: UTAH JAZZ FAN RELATIONS ACCOUNT EXECUTIVE CHRIS BAILEY '12 AT CENTER COURT OF ENERGYSOLUTIONS ARENA IN SALT LAKE CITY, UTAH.

and executives with media training, and fielding all state tech and business media inquiries.

It's a lot to take in for a recent grad, but Garrett says her degree gave her just the right opportunities to keep up, most notably via the communities that professors built around the P.R. emphasis, she says. For example, she gained leadership experience as vice president of member services through her local chapter of the Public Relations Student Society of America.

That professional circle and the relationships she formed within it were crucial to her hiring at Ancestry, Garrett says.

"I'm really grateful to have gone to school in Utah Valley and joined the workforce in the local area," she says.

EARN YOUR KEEP

There were two ways to play it when Chris Bailey '12 finished his internship with Utah Jazz Fan Relations. The first was to toe the dirt shyly and thank them for the opportunity. That would do, if all he wanted was to get his hair tousled and his name forgotten.

Or, he could skip the Oliver Twist routine and furnish his director with a comprehensive communication audit of their organization. He chose the latter, titling it, 'Why you should hire me.' Several months later, when a full-time slot opened up with the Jazz, that report got his name remembered and he got the gig.

Handing in that unsolicited audit was one of several leaps of faith, says Bailey, en route to his degree at UVU, which he finished in December.

Last year, for instance, he spearheaded a class project to establish a fundraising campaign on behalf of one of his classmates, who was suddenly stricken with leukemia. A few months after that, he wound up venturing to Atlanta, Ga. — totally uncharted waters for the Liberty, Utah, native — to intern with Ogilvy Public Relations. Now the Utah Jazz Fan Relations account executive juggles dozens of responsibilities, including managing roughly 600 ticket holder accounts, game-day activities and the creation of a social media communication plan for the team's 12,000 season-ticket holders.

A big chunk of his duties revolves around organizing ticket-holder events, including player clinics, so on any given day, he might find himself, say, driving with the 6-foot-11, 267-pound Turkish center Enes Kanter in the passenger seat of his Chevy Classic.

"How he fit in there I do not know," Bailey says. "We went on a 50-minute car ride to Heber. Pretty surreal."



He is quick to credit UVU's public relations program — and a certain faculty member in particular — for providing the foundational skills he needs to keep pace with all the demands.

"I studied public relations, but I basically studied Stephen Whyte and the way he interacted with people," Bailey says of UVU's own winner of the Outstanding Faculty Adviser Award at the 2012 PRSA national conference.

Whyte deflects the personal accolade, crediting the department as a whole for "incorporating the latest research, strategies and tactics from the workplace. All that prepares students to hit their job running."





PHOTOGRAPHY BY JACOB SCOTT

UVU EL CAMINO GETS A FACELIFT

With a new coat of paint, the UVU Wolverine Race Team's speed machine is ready to rewrite the record books again. The custom-built 1969 Chevrolet El Camino has become a symbol of engaged learning at UVU and a way for students to obtain tangible automotive experience. Since 2006, more than 100 students from various departments have worked on the vehicle, which sports a 572-cubic-inch engine with a turbocharger. Between 2006 and 2010, the El Camino set five world land speed records and hit 194 miles per hour on the speedometer.

Technical issues kept the UVU El Camino out of commission last year, but the team will be back on the Bonneville Salt Flats to break more records this spring.



Department of
AUTOMOTIVE
TECHNOLOGY



**26TH Annual
AUTO EXPO**
7AM-5PM *Rain or Shine*

held at:

**THANKSGIVING POINT'S
Electric Park**

I-15 Exit #284 3003 N. Thanksgiving Way,
Lehi, Utah

& SWAP MEET
MAY 17TH 12-4PM
& 18TH 7AM-5PM

Show Fees - No Refunds
Participant: \$20 for 1st entry(\$25 day of show)
\$10 each additional entry (\$25 day of show)

Spectator-Public Fees
Spectator Admission for Car Show
\$5 per person, children 5 & under free

Spectator Parking—FREE

SPECIAL GUESTS INCLUDE:
**Shirley Muldowney &
Ed "the Outlaw" Jones**

for more information go to:

www.uvu.edu/autoexpo

Also join us **Friday 17th**
for **PRE-SHOW CRUISE
& BBQ** hosted by:
Denny Menholt Chevrolet
Spanish Fork

Supporting STEM

by Julia Stowe // Photo by Maria Corona

As an undergraduate chemistry major, Clark Turner had the opportunity to work on a research project with a graduate student and a faculty member. He chose an X-ray analysis project and became fascinated with the science. That junior-class experience led him to a successful career and the opportunity to provide similar experiences to Utah Valley University students.

Turner earned a doctorate in analytical chemistry and founded Aribex Inc., a local company that manufactures portable X-ray devices for the dental and veterinary industries. With a firm understanding of how valuable hands-on experience can be in helping science stu-

dents discover the field of their passion, he and his wife established the D. Clark and Pam Turner Endowment for Engaged Learning in Science, Technology, Engineering and Mathematics at UVU. The fund will make it possible for students pursuing STEM degrees to take part in undergraduate research.

“We have found in the industry that if somebody comes right out of school and hasn’t had any hands-on practical work experience, it takes us much longer to train them. The fund is intended to help prepare students to be more employable after graduation and to come up to speed quicker in the industrial setting,” says Turner, who also

has provided work experiences for UVU students through internships at Aribex.

To establish the fund, the Turners donated Aribex stock to UVU before selling the company.

“It was important to me to donate the appreciated stock ahead of the sale because it maximized the amount of money available for the program,” says Turner. The fund also is set up so that he and others can augment it in the future.

“A lot of students have to work while they’re going to school,” Turner says. “This fund will provide them work experience in their field of interest.”



TRAGEDY



TRIUMPH

An international student blooms at UVU despite unspeakable personal tragedy and loss

BY MICHAEL RIGERT // PHOTOGRAPHY BY JACOB SCOTT

T

here is something in Claudine Kuradusenge's illuminating eyes and her calm, unassuming self-confidence that tells you this talented woman is someone who knows where she has been and where she wants to go.

A Utah Valley University student from East Africa who graduated in April, Claudine speaks smooth English with a noticeable, but not readily discernable, accent. She has served as a key member of the UVU Center for Global & Intercultural Engagement's International Student Council and devoted dozens of hours each week to assisting the institution's 700 international students. Chair of the ISC's Global Engagement Team, Claudine led programs and organized events that benefit not only students from around the world but the entire campus.

Claudine earned her bachelor's degree in only two and a half years while also working part-time on campus. When not busy with her studies, her ISC duties or her job, she also organized academic conferences and presentations, participated in UVU's African and UNICEF clubs and applied to graduate programs.

But those close to Claudine know there is much more than meets the eye to this remarkable UVU grad. As a young child, the native Rwandan lived through the horrors of her country's 1994 genocide that left nearly a million dead, an experience that ripped her family apart and almost destroyed her. When the killing began, her family was scattered, and she narrowly escaped the deplorable conditions of an overcrowded refugee camp.

Despite her great suffering and loss, Claudine, through an unmistakable inner strength and inextinguishable spirit, rebounded from the cataclysm. She flourished at UVU and wants to use her university education to ensure that

what happened in her homeland is never repeated. A fighter who refuses to be a victim, Claudine considers it an obligation to make the most of her life and become an advocate for peaceful resolutions to the world's conflicts.

Fabrice Nsabimana '12, one of Claudine's cousins who evacuated with his family when the genocide began, preceded her at UVU. For Claudine to propel herself to academic success in such a short time is part of who she is, he says.

"Claudine is dedicated and a go-getter," Fabrice says. "She won't sleep when she wants to finish something and make it perfect."

INTO DARKNESS

A member of the country's Hutu tribe, Claudine was raised in a large family in Ruhengeri. When her father, Aminadab Ndabarishi, suddenly died from an unknown illness when Claudine was 2, she was sent to live with her aunt Athanasie Uwimana. Claudine's mother, Anisia Nyirankera, at the time pregnant and abruptly single, simply couldn't care for her six children.

In April 1994, Rwanda, at the end of a multi-year civil war, erupted into genocide and mayhem between the Hutu and Tutsi tribes after the Rwandan president and most of his cabinet were assassinated when rebels shot down their aircraft.

Athanasie's husband and Claudine's uncle, Déogratias Nsabimana, a ranking general in the Rwandan army and a military attaché to the president, was also killed aboard the president's plane. The French government evacuated Athanasie and her children. But Claudine was returned to her mother.

"I was just scared," says Claudine, who was only 5 at the time. "You could hear gunfire all over, people screaming. Most of the people died in the first nine days."

Within a couple of days, Claudine's mother decided that the family had no choice but to flee to the United Nations refugee camp in Goma on the border of neighboring Democratic Republic of the Congo. The two-day trek was nightmarish.

"My baby sister, Maria, got sick on the way, and I couldn't stop crying," Claudine says. "The dead were everywhere."

The vastly overcrowded and disease-ridden refugee camp offered little hope or relief. Some 2 million Rwandans were flowing into a few hastily erected camps in the area. Claudine's family was now confronted with near-starvation, nonexistent medical care or supplies, and other inhumane deprivations. She remembers her lone solace in the misery-struck sea of humanity being what she described as an oversized blue plastic bag the U.N. had issued refugees for shelter.

A couple of months later, the cruelest moment of Claudine's time in the camp came. Her 2-year-old sister, Maria, unable to get the medicines she needed, died before Claudine's eyes.

"If hell exists, it looks like the refugee camp we were in," Claudine said. "(Maria) had become all I had. At that point, living was too hard; it was so easy to let yourself go."

Shattered by the trauma, Claudine cowered on the ground in a catatonic state and stopped talking.

A WAY OUT

Fearful for Claudine because of the horrors she had endured, her mother pleaded in letters that Athanasie devise a way to extricate Claudine from the camp. Athanasie, then in France, acquired and doctored a set of identity papers. But she couldn't come up with papers for Claudine's mother.

"That's the hardest thing, actually," Claudine says. "That's the last time I ever saw her. She told me I would be going away for a few days, and then, she would see me."

In August 1994, Claudine was brought across the border, flew to France, and eventually arrived in Belgium, where she, still mute from her trauma, was reunited with Athanasie, her cousins and other surviving relatives.

Two years later, the all too familiar feelings of terror and loss returned when Claudine, through a phone call, learned that her mother, who had



LEFT: J. BONNER RITCHIE, A RENOWNED EXPERT IN ORGANIZATIONS BEHAVIOR AND CONFLICT RESOLUTION AND A UVU SCHOLAR IN RESIDENCE EMERITUS, SHARES A LAUGH WITH UVU GRADUATE CLAUDINE KURADUSENGE. RITCHIE AND HIS WIFE, LOIS, WERE INFLUENTIAL MENTORS FOR CLAUDINE WHILE SHE ATTENDED UVU.

survived the refugee camp, had been murdered by roving Tutsi soldiers demanding money. Her mother didn't have any; she was shot and killed on the spot.

"I think I cried for a week," Claudine says. "They don't investigate those crimes, especially when the soldiers commit them."

A WAY UP

Through the passage of time and the beginning of a healing process that may span her life, Claudine began talking again in 1996. Living with family in Brussels, she became enthralled with education and completed six years of secondary education, including emphases in Greek, Latin and science.

Much like her cousins, Claudine wanted to pursue a university education and planned to major in public relations, with a minor in criminal justice. But when she learned it takes four years to complete the same education in America that would take an average of 10 years in Belgium, it was a no-brainer.

Despite three years of high school English, she knew she needed more language training to reach a comfort-

able level of academic proficiency. Claudine enrolled in six months of intensive English instruction (classes were five days a week, 14 hours a day). At the same time, she found employment at a chocolate factory, which allowed her to piggy-bank funds for college in the U.S., with the fringe benefit of free product samples.

At the urging of Fabrice and his older sister, Yvonne, who both attended UVU, and Athanasie, Claudine applied to the University, flew to Utah in April 2010 and promptly completed 18 credit hours during summer semester. She dove into her studies and became a regular volunteer at the international center, where her dedication and work ethic caught the attention of Stephen Crook, director of International Student Services, and various faculty members.

"Claudine has been an amazing asset to the international students. I can't say enough," Crook says. "She has this incredible drive to achieve whatever goals that she sets for herself."

Never one to stay in her comfort zone, Claudine, after representing UVU students from the Middle East on the International Student Council and

observing misconceptions about the region's majority faith — Islam — took action. Though not Muslim herself, she wanted to help create greater public awareness about the religion and culture of its adherents. Almost single-handedly, Claudine organized the university's first academic Conference on Islam in March 2012, which featured UVU scholars and external experts, including J. Bonner Ritchie, a renowned professor and UVU scholar in residence emeritus, and an imam from a Salt Lake City mosque.

"It was challenging to open people's minds," Claudine says. "As a public relations student, I learned how to present it effectively to create a rich experience for attendees."

Claudine, who minored in criminal justice and peace and justice studies, didn't stop there. Again, with the assistance of ISC students and UVU faculty and staff as mentors, she organized the second annual Conference on Islam in February 2013. And last November, she coordinated the organization of the international center's annual Global Engagement Week that draws roughly 2,000 to 3,000 to experience UVU students' diverse cultural, linguistic and culinary offerings.

Perhaps Claudine's most powerful impact has been upon herself. It's still difficult for her to talk about what happened (nightmares are a near-nightly occurrence). But after publicly sharing her story for the first time in an essay assignment as a member of a cross-cultural communication course taught by Ritchie and his wife, Lois, Claudine learned that her powerful story could inspire others to confront their own demons. Following Claudine's example, her classmates began sharing their personal hardships and tragedies with the resolve to face and conquer them, Ritchie says.

In 2011, the organizers of an academic conference on the plight of refugees invited Claudine to be a featured speaker at the UVU-hosted event. Bolstered by her experience with the Ritchies, and at the urging of friends and colleagues, she accepted.

“It was tough. I was crying through half of it,” Claudine says. “But, yeah, I’m glad I did it. I would do it again.”

In a sense, sharing her story publicly has been a cathartic experience, helping to bring her healing to new levels and solidifying her resolve to continue

children in both tribes continue to be raised with biases about the other tribe, she believes it will take at least three to five generations before the tribes truly accept each other as equals.

But an open-minded individual, who leaves her baggage at the door and comes to the table to talk, can be a powerful step toward peace, Claudine says.

“Mostly, it’s about people coming together and finding solutions,” she says. “There are no small parts; just big team projects.”

“WE SAY AT HOME THAT WHEN YOU EDUCATE A WOMAN, YOU EDUCATE AN ENTIRE SOCIETY.” — Claudine Kuradusenge

graduate studies, earn a doctoral degree and pursue a career as a scholar and activist in conflict resolution.

Ritchie says what Claudine has accomplished at UVU is miraculous, and her efforts also have had an impact on him, his students and the institution.

“Claudine has the ability to abstract way beyond what most people can and see the issues,” he says. “I think she felt that she had something unique to offer and got really involved, and in the process, lost herself in helping students overcome their biases and made UVU a better university. She is building bridges in terms of religion, ethnicity, gender and tribal groups that are pretty unique.”

RECONCILIATION IS A PROCESS

With a firm grasp on the issues of conflict and what it takes to effect lasting peace between two sets of peoples, Claudine is realistic about the prognosis for Rwanda. Divided by centuries of prejudice, Hutus and Tutsis are making slow progress toward better understanding and mutual respect, but the road will be a long one. Because

Ritchie recognizes that Claudine, with her considerable strengths of drive, determination and desire to make a difference, is a rare individual.

“Her performance in my class would put her in the top 1 percent of all students I have had over 40 years of university teaching,” Ritchie said in his recommendation of her for graduate school. “She is a natural leader. She has confronted a threatening world with a courage and commitment that most of us simply cannot understand.”

Claudine believes that one person can make a difference in changing the world and that each individual who dares to do so has the potential to affect a generation. But for real and lasting improvements to take place in Rwanda, reform will have to begin in the home, with mothers and their children, rather than in Kigali’s parliament hall with politicians, she says.

“We say at home that when you educate a woman, you educate an entire society,” Claudine says. “Everyone has the opportunity and should have the duty to do something.”



ST REGIS

DEER VALLEY

EXCLUSIVELY RANKED,
INCLUSIVELY YOURS

From a sunrise hike amid mountain aspens, to champagne sabering at sunset, delight in The St. Regis Deer Valley, named one of the top resorts in North America by *Travel + Leisure*.

Indulge in the celebrated cuisine of Jean-Georges Vongerichten's J&G Grill. Relax and rejuvenate in the bliss of Remède Spa. Experience the uncompromising luxury of The St. Regis Deer Valley.

Learn about special Utah Locals rates on our website, and be sure to ask about our exceptional Spring and Fall packages for weddings, corporate meetings, private dinners and social events.

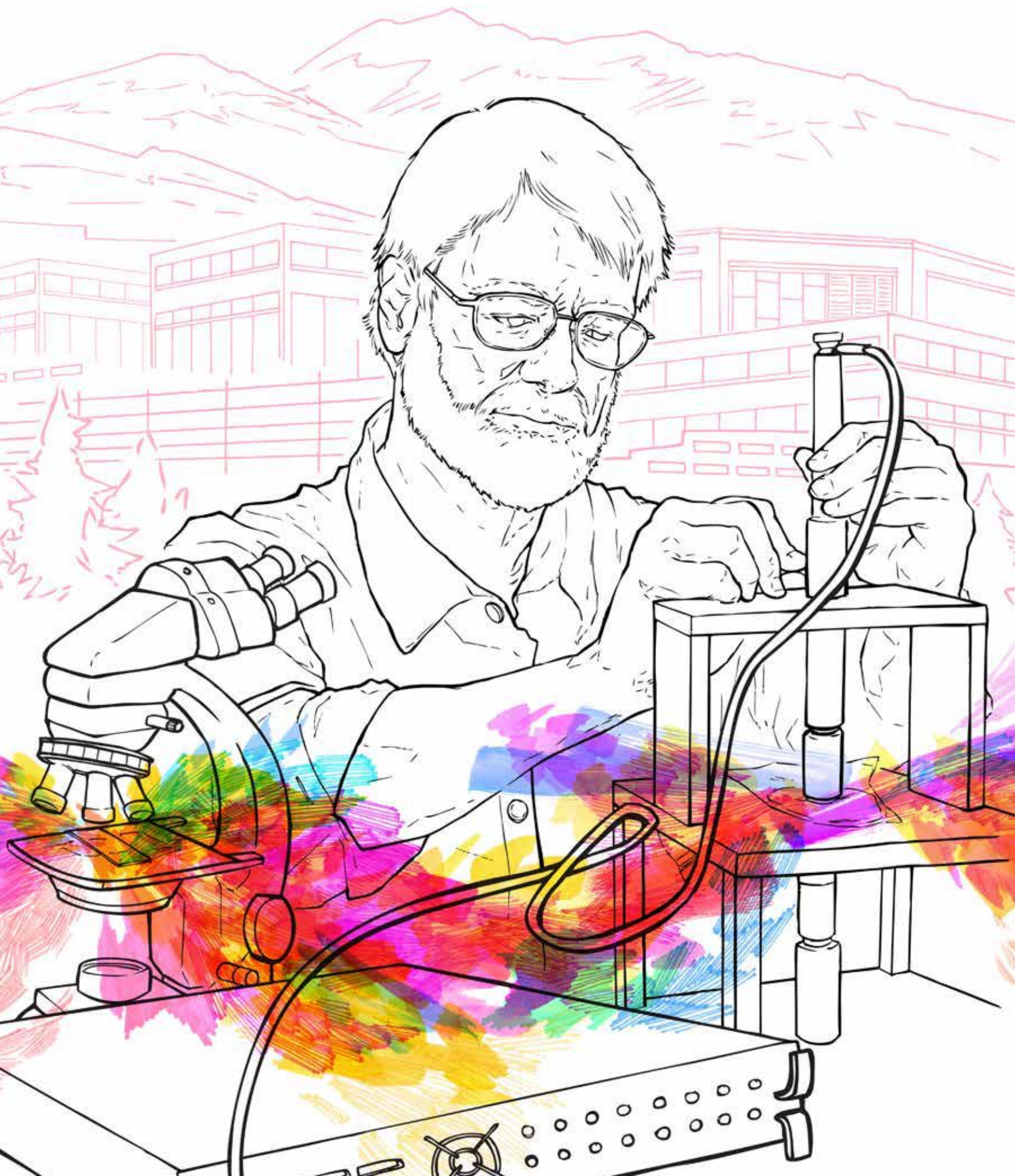
2300 DEER VALLEY DRIVE EAST
STREGISDEERVALLEY.COM
435.940.5700



HOTEL DEBUTS: ABU DHABI BANGKOK
BAL HARBOUR DOHA FLORENCE
MAURITIUS SANYA SHENZHEN TIANJIN

STREGIS.COM

spg[®]
Starwood
Preferred
Guest



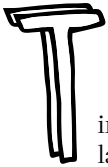


SHEDDING NEW LIGHT ON CANCER

*FOR ONE UVU FACULTY MEMBER, THE QUEST
TO DETECT CANCER HITS CLOSE TO HOME*

by CHERYL KAMENSKI

ILLUSTRATIONS *by*
ALLEGRA LOCKSTADT



Tim Doyle sits back in his chair and laughs. “Sometimes I wonder how I got here,” says the assistant professor of physics. “I started out as a rocket scientist, but looking back, all my experiences have led me to this point.” Doyle is leading research at Utah Valley University – and involving his students all along the way – in using high-frequency ultrasound to detect cancer in breast tissue.

In the fall of 2003, Doyle was finishing his doctoral dissertation at Utah State University. His work focused on a new technology for diagnosing the “health,” or physical condition, of rocket materials. Then came the news that no one wants to hear: “My wife was diagnosed with breast cancer,” he says.

Doyle’s wife, Christine, felt a lump in her breast while she was showering. Having had a rare form of thyroid cancer previously, she knew she needed to be proactive. She called the doctor right away and went in a few days later. “They could not find the lump on the mammogram, so I was lucky that I felt it,” says Christine, who was 43 at the time.

The doctor talked with the couple about different treatment options, and Christine opted for a lumpectomy followed by chemotherapy and radiation treatment. “My husband was so supportive. And I really felt that he, the doctors and others who cared for me were a part of my team,” she says. “Plus, I read a lot on my own so I could understand what was going on. Being educated gave me power and was reassuring to me.”

A week later, she had the lump removed and then went to Huntsman Cancer Institute on the campus of the University of Utah in Salt Lake City, Utah, once a week for up to 90 minutes of chemotherapy each visit. After completing her course of chemotherapy, she went for radiation treatment every day at McKay-Dee Hospital Center in Ogden, Utah.

The bout with breast cancer made the Doyles more introspective and got

the physicist thinking. While his wife was on her way to recovery, Doyle had an ‘aha’ moment. “While I was hiking that fall in the autumn colors, the idea came to me that my dissertation work could be applied to diagnosing cancer as well,” Doyle says. “I was very excited with the idea and could not wait to get home to work on it.” He realized the models he advanced for using ultrasound to test the density of rocket materials could be further developed and applied to human body tissues.

Doyle’s research provides promise to the medical community and anyone who has been affected by breast cancer. Doyle saw that ultrasound could pinpoint where cancer exists so doctors could remove cancerous tissue with greater precision during surgery. It would help patients recover faster and reduce the likelihood of follow-up surgeries.

ONE SURGERY IS ENOUGH

One of the key challenges in treating breast cancer is removing all of the cancerous tissue. Doyle’s work offers hope for more precise treatment and, consequently, better outcomes.

When women get breast cancer, approximately half decide to undergo a lumpectomy, also known as breast conservation surgery. To do that today, the surgeon removes the lump along with a region of tissue between one and two centimeters around the tumor. That region is called the margin, which is then

analyzed. If cancer is detected on the edges, the margin is positive – meaning cancer is still in the breast.

Positive margins require a second surgery to remove more tissue. Thirty to 50 percent of women who undergo a lumpectomy have to return for a second surgery, according to a 2009 study pub-

lished in “Cancer Research.” Doyle’s method could reduce or eliminate this problem.

Doyle says breast cancer comes in different types. Each type has different features at the microscopic level and those differences are what his team needs to detect.

“Ultrasound scatters off of things in tissue, such as capillaries, ducts and sac-like features at the end of the ducts called lobules,” Doyle explains. “And when they scatter, those things resonate. They will ring like a bell.” Each tissue component has a different ring because it resonates at a specific sound frequency.

Doyle’s research identifies how cancer in tissue “sounds.” That information could then be used during surgery to help doctors detect with a handheld device whether cancer exists in margin areas. This way, doctors could remove the needed amount of tissue the first time. Breast cancer patients would then be able to focus on healing rather than wondering if another surgery will be required.

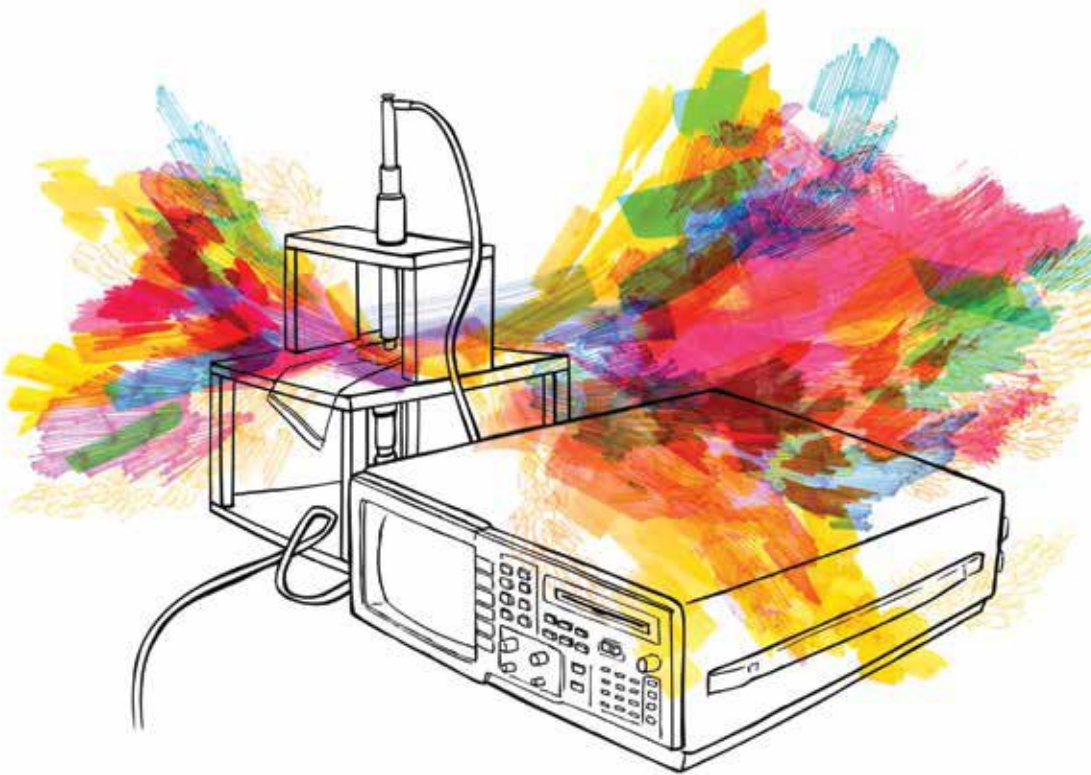
PUTTING IT INTO PRACTICE

Doyle’s project is the first step in a long process for the technique to become standard practice. Once the research is complete, required clinical trials and FDA approvals will take several years. He projects it will take about 10 years for the methodology to become mainstream.

Doyle also anticipates this technology will be applied to other cancers, such as skin, oral, prostate and colon cancers.

The technology was developed while Doyle, then a faculty member at USU, struck a partnership with the University of Utah and Dr. Leigh Neumayer, a surgeon and co-director of the interdisciplinary breast program at Huntsman Cancer Institute. He talked with Neumayer about his ideas of using ultrasound on humans instead of rockets. Due to her mechanical engineering background, Neumayer saw the poten-

“I started out as a rocket scientist, but looking back, all my experiences have led me to this point.” – TIM DOYLE



tial of high-frequency ultrasound to detect cancer at the microscopic level. She suggested that Doyle use his idea to find cancer in margins.

“Dr. Doyle’s medical-physics, cross-disciplinary work and innovation is something we work hard to develop and foster at UVU,” said Sam Rushforth, dean of UVU’s College of Science & Health. “It has the near certainty to lower the number of surgical interventions women may need to cure breast cancer. We are very fortunate to have him at our university.”

CORROBORATING EVIDENCE

The data analysis methods Doyle is using are different from anyone else’s.

“No one is looking at the spectral components like we are or taking measurements in the same manner,” he says.

Doyle and his team are testing and analyzing different tissues from mice, cows and chickens. They are finding more examples to prove their hypothesis of differentiating tissues at the microscopic level by their ultrasonic signals.

Doyle has already done a feasibility study using samples from 17 patients that resulted in statistics demonstrating that he is on the right track. The results not only showed whether a sample was malignant or nonmalignant but also identified different types of malignant tissue.

In July 2012, Doyle and UVU students began working at Huntsman Cancer Institute at least twice a month to observe and test tumors in breast tissue. They are analyzing different types of microscopic structures at the cellular level. In addition to indicating the presence of cancer, these structures may also help identify diverse genetic markers that predict how the tumor will behave and respond to treatment. The team is also preparing to conduct an extensive study on lumpectomy margin specimens.

“We’ve got really good data that say we need to keep going,” Doyle says. “This spring we will be starting additional clinical trials.”

Using funding provided by UVU’s Grants for Engaged Learning program — which supports projects that promote collaborative learning and problem-solving that result in solutions for and benefits to students and the community — and the U of U, Doyle and his students plan to look at samples from more than 200 patients.

STUDENT ENGAGEMENT

From the first day of the project, UVU students have been involved in the research and analysis that the clinical trial work would require, providing them valuable applied scientific experience before they graduate. In addition to the engaged learning grant, Doyle was awarded a Presidential Fellowship, which supports faculty members in scholarly projects that model the university’s emphasis on engaged learning and student-centered research. He also received a follow-on Grant for Engaged Learning last October to continue the collaborative research and testing at Huntsman Cancer Institute.

Doyle gives students regular research roles and trusts their data collection and analysis. They, in turn, get the unique opportunity of gaining research experience.

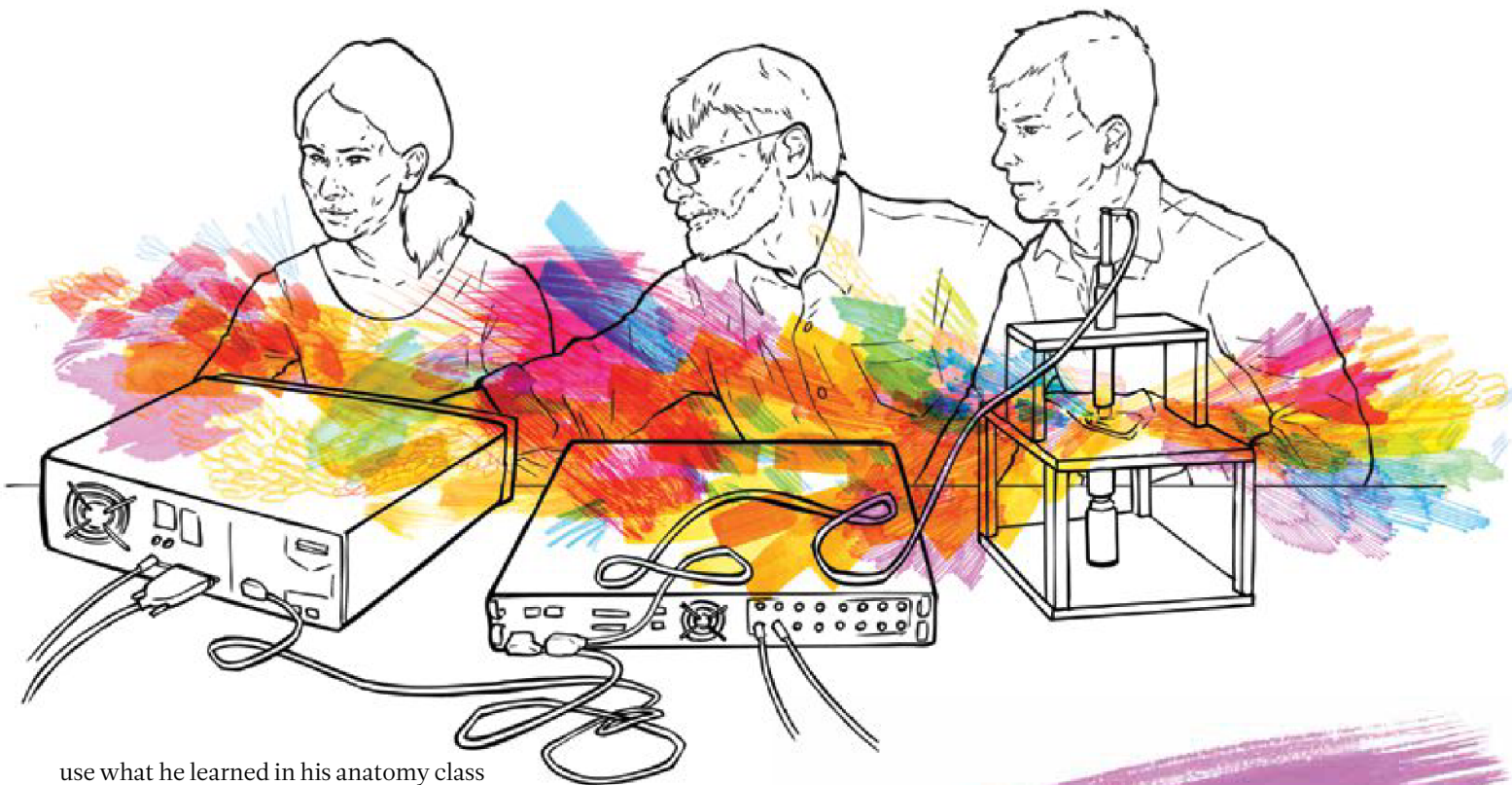
“I feel motivated because I have an actual project to work on instead of just trying to complete an assignment,” says Laurel Thompson, a UVU junior majoring in chemistry. “It’s the best way to learn. Plus, we work under real-life deadlines and get actual research experience.”

Thompson is the first person in her family to study science and also the first woman in her family to pursue a baccalaureate degree. “A project like this is my first exposure to what scientific research really means,” she says. “We make decisions, and we analyze the results of our data together to identify different trends, so it is exciting. And it’s neat to imagine the possibilities.”

Up until a few years ago, Thompson was under the impression that research and discovery in science had come to a stopping point and scientists could only refine what was already known. But Thompson says Doyle has foresight in exploring new ideas, and she finds the research fascinating.

UVU senior biology major Brad Curtis agrees. “Science is more than one subject by itself. You think breast cancer is just medical, but it really includes biology, physics, biophysics and chemistry, too,” he says.

Curtis plans to go on to medical school after he graduates and has been able to



use what he learned in his anatomy class to assist in the research process.

“To work on something so meaningful to society and to work with great people is very exciting,” Curtis says. “I find myself at home sometimes thinking about different things we can try to see if they will work. Every idea is worth trying.”

The students are working on synthesized “phantom samples” — samples that mimic ultrasonic properties of breast tissue — to further validate the method. The team injects things that resemble tumors, such as fibers, and view them with ultrasound to see the changes, simulating the analysis of a tumor in human tissue.

The team is also looking at bovine tissue to provide additional data. The tubular structures of bovine tissue are layered and are more complex than, for example, the muscle of the heart. Doyle’s team is seeing very little difference between the organs on the macroscopic level, but much larger variances at a microscopic level between the arrays of tissues within the organ.

“Brad had the presence of mind to collect different tubular structures from the bovine tissue, which is why it’s great to have someone with his background in anatomy on the team,” Doyle says. And that is where Doyle and his team are seeing differences — in the complexities.

GETTING PERSONAL

Because of his wife’s ordeal, Doyle says it is especially gratifying to work in this field in the hopes of easing others’ burdens. “Although I am doing this work for everyone, I am doing it mostly because of her,” he says of his wife.

For Christine, who has been cancer free for nearly 10 years now, her husband’s work means a little more.

“Cancer does not happen to one person; it happens to everyone involved — family, friends, doctors and nurses. But medical situations can be a positive experience in your life,” she says. “I was able to see Tim’s love through his caring and concern. And for me, that is a treasure I will always remember.”

Thanks to Tim Doyle, perhaps the breast cancer that his wife met head-on and tackled with spirit will result in new and better treatment options for us all.

“My wife thinks it is great that my research has a humanitarian focus and will improve the health outlook of women,” Doyle says, noting that a small percentage of men are also diagnosed with the disease. “It is very exciting to work on something that has such a significant potential to improve people’s lives.”

BREAST CANCER’S WIDE REACH

1 in 8

women will be diagnosed with breast cancer at some time during their lifetime (seer.cancer.gov).

226,870

In 2012, it was estimated that 226,870 women would be diagnosed with and 39,510 women would die of breast cancer (seer.cancer.gov).

97%

Breast cancer incidence and death rates generally increase with age. Ninety-five percent of new cases and 97 percent of breast cancer deaths occurred in women 40 years of age and older (cancer.org).



Engaged Learning

is in our DNA.

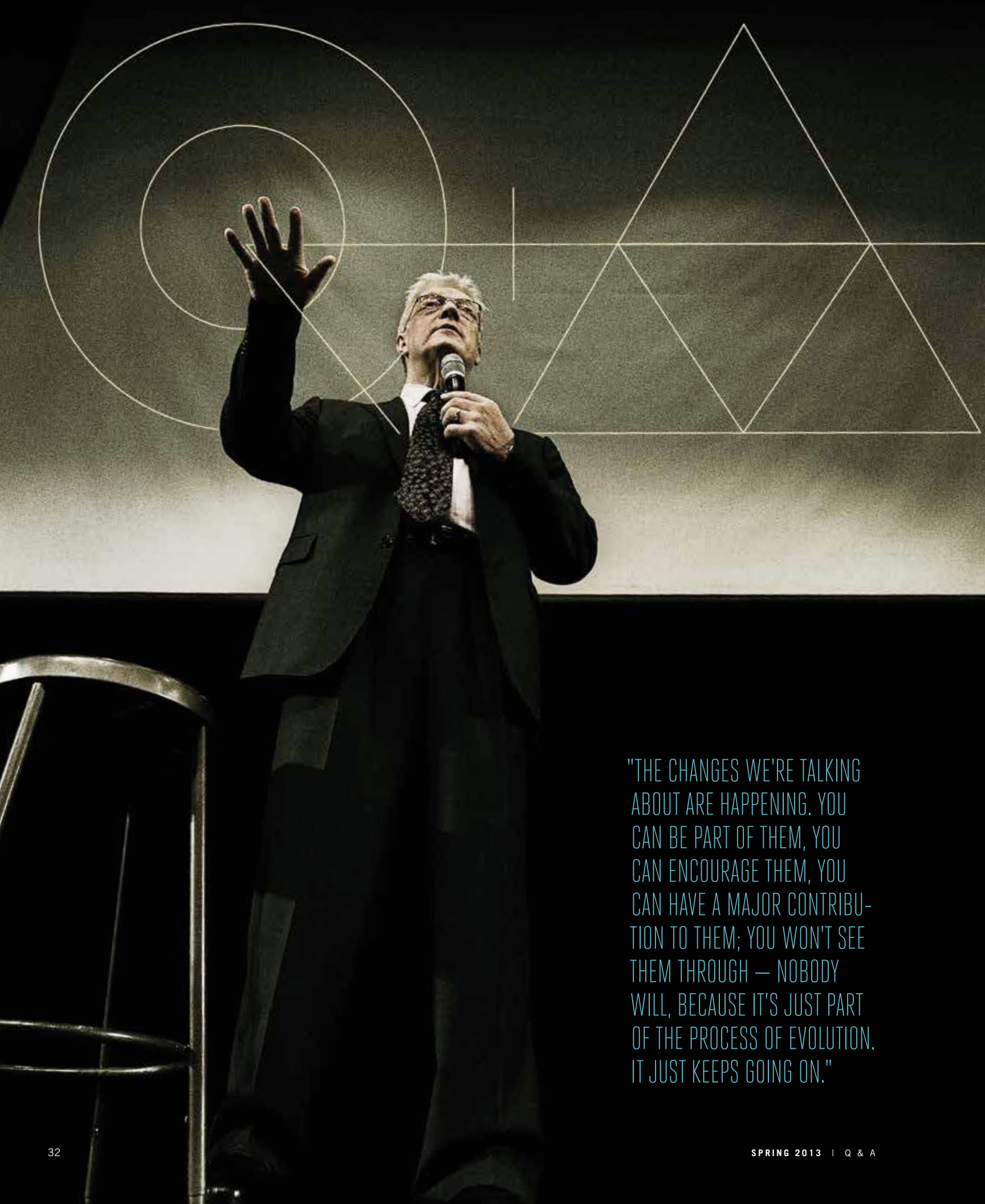
ENGAGE

DON'T EVER REFER TO STEPHANIE BARTLETT AS "JUST" AN UNDERGRAD. A BIOTECHNOLOGY major at UVU, Stephanie is already presenting her DNA research findings at scientific conferences, and she'll have a published paper by the time she graduates – an achievement usually accomplished by graduate students.

The hands-on, practical application of classroom curriculum is called "engaged learning," and it's at the very foundation of the Utah Valley University approach to education. Whether pursuing a certificate, associate, bachelor's or master's, UVU graduates are better prepared to make an immediate impact in their chosen field.

If you left school a few credits shy of your degree, now is a great time to come back. Enroll now to start your engaged learning experience at uvu.edu/engage.





"THE CHANGES WE'RE TALKING ABOUT ARE HAPPENING. YOU CAN BE PART OF THEM, YOU CAN ENCOURAGE THEM, YOU CAN HAVE A MAJOR CONTRIBUTION TO THEM; YOU WON'T SEE THEM THROUGH — NOBODY WILL, BECAUSE IT'S JUST PART OF THE PROCESS OF EVOLUTION. IT JUST KEEPS GOING ON."

THE CREATIVE PROCESS

Renowned educator and famed TEDTalks speaker Sir Ken Robinson implores students and staff at Utah Valley University to never cease creating and innovating in education.

BY MATT REICHMAN | PHOTO BY AUGUST MILLER

Higher education and hockey seem like disparate vocations, but we'd all do well to heed the words of hockey great Wayne Gretzky, says Sir Ken Robinson: good hockey players skate to where the puck is, but great hockey players skate to where the puck is going to be. Robinson, an internationally recognized leader in education development, urges teachers to identify where the curricular "puck" is going next.

The best-selling author visited Utah Valley University in November as part of UVU's Presidential Lecture Series, sharing many of the philosophies on creativity that have earned him notoriety on the multinational TEDTalks lecture circuit. Robinson, who was knighted by Queen Elizabeth II in 2003, challenges what he considers to be an antiquated system of learning in modern society, advocating innovation in the methods educators employ to prepare and inspire young minds.

What follows is an excerpt from a small group Q&A session Robinson conducted following the lecture.

Q: HOW CAN PERFECTIONISTS ALLOW THEMSELVES TO TAKE CREATIVE RISKS?

A: It's a process. It's not an event. There are some exceptions out there. It's said that Mozart never corrected the manuscripts. ... [But most people] underestimate the complexities of the process, and they disappoint themselves because they feel they should get it right the first time. It's like anybody who tries

to play an instrument; if you pick up an instrument, pick up an oboe, for the first time, and you can't play it — of course you can't — and then conclude, 'But I just can't,' and throw it away, then your life is going to be full of that type of disappointment.

Q: HOW CAN TEACHERS INSTILL IN THEIR STUDENTS A GREATER PASSION FOR WRITING?

A: In England, [my son] loved writing and reading. Within a year of being in this high school in L.A., he couldn't stand it — because it was like a straightjacket. ... So the pedagogical issue is finding ways of engaging students in what it's meant to be about, which is formatting ideas and coming up with elegant ways of expressing them, and along the way, helping them with issues of structure where it will be of assistance. But there isn't a single way to write an essay — there isn't — and anybody who says there is, is just making it up. ... [When the Beatles started out], Paul McCartney and John Lennon only knew two chords ... of course they ended up knowing a lot more than [that], but they didn't think, 'Well, we've got to learn all the chords before we start writing songs.'

Q: WHAT IS THE RELATIONSHIP BETWEEN CREATIVITY AND THE CLASSROOM?

A: [Teachers] shouldn't be focused on teaching; they should be focused on learning. Education is about helping people learn. And your job as a teacher is not to tell people stuff that you know, but to get them as excited about it as you are and get them to know it. ... And

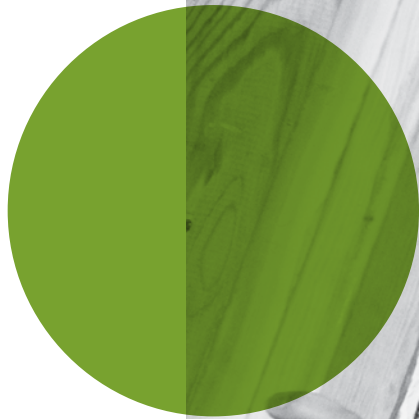
teaching, to me, is an art form. I believe that very strongly.

Q: HOW CAN LARGE ORGANIZATIONS STAY AGILE ENOUGH TO PROMOTE CREATIVITY?

A: You get older and you get more set in your ways. It's like the lava cools. But then if it doesn't reinvent itself, many organizations will probably die, like individuals eventually do, because they can't adapt anymore. The difference between an organization and a human being is you can continue to reinvent [the organization] and rejuvenate it. All I'm saying is that you can't criticize institutions for behaving like institutions. ... What you can do is keep agitating for them to refresh themselves. ... The changes we're talking about are happening. You can be part of them, you can encourage them, you can have a major contribution to them; you won't see them through — nobody will, because it's just part of the process of evolution. It just keeps going on. We're not going to get a perfect education system in our lifetimes, and if we get it, it won't last forever. All you can do is attend to the bit that you're involved in and make that great.

TO WATCH ROBINSON'S FULL LECTURE AT UVU, VISIT UVU.EDU/PRESIDENT/SPEECHES/PRESIDENTIALLECTURES.HTML





BE THE

DIFFERENCE.

ABOVE: UVU FIRST LADY PAIGE HOLLAND AND A STUDENT VOLUNTEER HELP BUILD A HOME FOR HABITAT FOR HUMANITY.

The Utah Valley University Volunteer & Service-Learning Center started off the new year the same way it does every year: with a service project.

That project, making friendship bracelets for Juvenile Justice Services in Springville, Utah, was the first of more than 150 service opportunities planned for this year.

It's just business as usual — except for one thing: 2013 marks the center's 20th anniversary. Two decades of serving the community and providing meaningful service opportunities for UVU students is definitely something to celebrate, and Alexis Palmer, director of the center for nearly a decade (who recently accepted a position in Continuing Education), knew just how they'd do it: with a campus-wide service project at the end of March.

There may not have been party hats or birthday cake, but the center's staff thinks that their method of celebration is even more satisfying. And the UVU students for whom the center provides resources agree.

"Birthday cake would be nice," said Kyle Mahoney, a UVU student from Provo, Utah, who helped make friendship bracelets at the beginning of the year, "but if I had to choose, I'd choose the opportunity to serve instead." The preference of service over cake might not be what you'd expect of the average college student, but this view is pretty standard for the students that take advantage of the service opportunities at UVU — the ones that typically go above and beyond.

That might be because these students recognize how valuable this service is.

"Students who participate in the opportunities provided by the center have told me time after time that the programs they participated in changed their perspec-

tive in some way, and some even say it changed their life," says Laura Christopherson, program coordinator for the center. "For some students, it has given them the opportunity to meet lifelong friends. For others, it has given them the chance to network and build relationships in the community, which has led to them receiving jobs."

In light of the premium that the institution places on engaged learning, the center depends on student interns, volunteers and the student service council to implement important programs and keep things running smoothly.

"Students are involved in every decision made at the center," says Palmer. "It's run by students, for students, and we advise them and help them along the way."

Thousands of students walk past the Volunteer & Service-Learning Center,



LEFT: UVU NURSING STUDENTS AND OTHER VOLUNTEERS UNLOAD SUPPLIES WHILE ON A HUMANITARIAN TRIP TO SAMOA.

TOP RIGHT: A VOLUNTEER PROVIDES SERVICE FOR A LOCAL NONPROFIT ORGANIZATION.

BOTTOM RIGHT: VOLUNTEERS DELIVER BOOKS ON A RECENT TRIP TO FIJI TO REFURBISH A SCHOOL AND BUILD A LIBRARY.

SERVE &

CELEBRATE



Staff and student volunteers have been hard at work meeting those needs. During the 2011–2012 academic year, for example, 11,351 students served 137,332 hours at 178 events sponsored by the center and the service council. UVU students put the equivalent of an estimated \$2.9 million back into the community through their volunteer efforts. This year, students are on track to surpass those numbers.

When they graduate, students who have served with the center are provided with a packet of information on how to get involved in community service after they leave UVU.

“We want them to give back to the community and continue the tradition of serving,” says Palmer. The goal is to have dedicated alumni that can assist and support future generations of service scholars.

Alumni that wish to become involved with the Volunteer & Service-Learning Center can email volunteer@uvu.edu or stop by LC 205 during regular business hours.

“We are always looking for alumni to help sponsor students,” says Palmer. The center also provides an online database of volunteer opportunities in the community, available through its website at uvu.edu/volunteer.

Campus long-timers may be amazed at the progress that the center has made in the last 20 years, but that doesn’t mean that its staff and volunteers are satisfied with the status quo.

Those dedicating their efforts to the Volunteer & Service-Learning Center have plenty of ideas for where they want to take it into the future. And knowing them, their plans probably have something to do with a service project.

on the second floor of the Losee Center for Student Success, every day. Many are too busy texting, chatting or rushing to class to notice, but many others peek in as they walk by, wondering what’s going on inside. The best way to involve the students, staffers say, is through other students.

“It’s not because of the staff,” Palmer says. “It’s students asking students to come participate — that’s when we have the most success.”

The students that work with the center recognize their role in recruiting more students to serve as well. The best way to get others involved is to get involved yourself, says UVU student Mike Jensen, a program director for the service center. Jensen got involved in the program when one of his friends encouraged him to apply for a position on the service council. Now, he organizes easy stop-and-serve service projects — such as knitting hats, painting blocks for children and creating activity packets — for students in the Sorensen Student Center every Monday afternoon.

Those weekly service projects are just one way UVU has worked to make

service accessible to students. Each weekday, the center sponsors up to four service projects in the community — from regular mentoring and tutoring programs in local public schools to service socials and seasonal food drives. During each semester break, center staff coordinate a service expedition locally, nationally or internationally. But it hasn’t always been this way.

In 1993, when Mike Jensen (no relation to Mike Jensen the student program director), now a UVU associate professor of college success studies, first helped create the center, it consisted of him sitting at a desk in a hallway of the Sorensen Student Center helping students find volunteer opportunities in the community. Each year since then, the staff has added more opportunities, more projects, more students and more hours, becoming what could be best described as a comprehensive service center.

“It’s unbelievable how it’s grown,” says Jensen. “The community really relies on UVU to be a major player in providing service to meet the needs of local community programs.”

TWO DECADES of SERVICE

20 years providing and coordinating significant service opportunities for UVU students and members of the community.

1993-2010

1993
5 DAYS
of flood relief work in Kansas City, Mo.

1998
\$2,013
raised for the Utah Food Bank

1999
50 *books retyped and converted to Braille*

2000
100
quilts made for Sub for Santa

2001
\$3,500
raised for American Red Cross in New York

2002
1 CISTERN 
water storage system built in Chihuahua, Mexico

2003
15 GRANDPARENTS "ADOPTED"

2005
343 UNITS
of blood donated

2008
1,200 sq. ft.
home built for Habitat for Humanity


2007
200
coats donated

2010
540
meals delivered for Meals on Wheels

2011-2012

PARTICIPANTS

11,351
109 *SPRING 2012*




97 **\$155,375**
FALL 2011 UVU AmeriCorps scholarships

ROUGHLY
\$3M **ROI**
based on \$21.79/hour value of volunteer time

 **137,332**
VOLUNTEER HOURS

- 42** FAMILIES SPONSORED SUB 4 SANTA
- 865** PINTS OF BLOOD DONATED
- 200** GIVING TREE GIFTS DONATED
- 4,974** POUNDS OF FOOD DONATED

MORE PROJECTS

Outstanding Educators

PHOTOGRAPHY BY AUGUST MILLER

Utah Valley University's Outstanding Educator Award is presented annually to one faculty member from each of the institution's eight schools and colleges as voted by UVU students.



Chuck Allison

Computer Science – College of Technology & Computing

Years at UVU: 12

Academic background: Bachelor and master degrees in mathematics from Brigham Young Univ.; doctorate in applied mathematics from the Univ. of Arizona.

Inspiration: “Professionally, my inspiration comes from the pioneers of mathematics and computer science: Leonhard Euler, Alonzo Church, Alan Turing, Donald Knuth, Edsger Dijkstra, Tony Hoare, and Christopher Strachey. My teaching inspiration comes from physicist Richard Feynman, Peter Downey of the University of Arizona, my 20 years of experience as a software engineer, and from the aspirations of my students.”

Interesting fact: “I’m a road biker (cyclist), and I play classical guitar.”



Steven Huff

Marketing – Woodbury School of Business

Years at UVU: 1

Academic background: Bachelor's degree in computer science from Utah State Univ.; MBA from Brigham Young Univ.; doctorate in business administration from the Univ. of California, Berkeley.

Inspiration: “Right now it is an Old Testament scripture, Nehemiah 6:3: ‘I am doing a great work, so that I cannot come down.’ Teaching is a great work, and there is much I am willing to sacrifice in order to do it well.”

Interesting fact: “I can say the phrase ‘Look! A duck!’ in over 20 languages.”



Courtney Davis

Art & Visual Communications – School of the Arts

Years at UVU: 7

Academic background: Bachelor's degree in art history, master's degree in art history and curatorial studies and juris doctorate all from Brigham Young Univ.

Favorite class to teach: “Art History from the Renaissance. I am inspired by the artistic rebels of the past who pushed against the status quo to change cultural history, even through the contemporary era ... contributors who not only impact Western cultural tradition, but who also lived extraordinary lives during extraordinary times.”



Jim Green

Aviation Science – College of Aviation & Public Services

Years at UVU: 6

Academic background: Bachelor’s degree from Brigham Young Univ.; master’s degree from Webster Univ.

Inspiration: “When I was 13, I watched the Blue Angels perform in Colorado Springs, Colo. I was so impressed that I always remembered it.”

Favorite class to teach: “Crew Resource Management. It’s a concept we developed at Continental Airlines. It teaches the entire crew to take advantage of all the resources in the cockpit. The class helps to mitigate danger in emergencies. It teaches students to be safer.”



Sandy Jay

Elementary Education – School of Education

Years at UVU: 2

Academic background: Bachelor’s degree in elementary education and master’s degree in curriculum and instruction from Oklahoma State Univ.; doctorate in elementary education from Florida State Univ.

Favorite class to teach: “I love to teach Curriculum and Instruction. The students know nothing about teaching, and they come in very inexperienced about lesson plans and what it takes to be a teacher. They come in so naive, and they realize, ‘Man, this is a lot of work!’”

Inspiration: “My elementary teachers I’ve had in the past. They all cared so much about me and my success.”



Jorge Nisguritzer

Languages – College of Humanities & Social Sciences

Years at UVU: 6

Academic background: Bachelor’s degree in Spanish from Weber State Univ.; master’s degree in Spanish literature and doctorate in languages and literature from the Univ. of Utah.

Inspiration: “I really enjoy teaching, so I think my inspiration is the students who take my classes and do the best to succeed. I love to give 100 percent in the classroom and show my students that I really care about them.”

Interesting fact: “I am from Argentina but have lived in the U.S. for 22 years now, so I consider myself a bicultural person. I love to keep the traditions of my native country, but also I like to incorporate into it the culture of this great country. I feel blessed to live in this beautiful land.”



Daren Heaton

Chemistry – College of Science
& Health

Years at UVU: 4

Academic background: Bachelor degrees in microbiology and chemistry from Brigham Young Univ.; doctorate in biochemistry from the Univ. of Utah.

Inspiration: “I am inspired by examples of those who overcome personal challenges through hard work and perseverance. I enjoy seeing students at UVU take on tough classes in math and science and learn that they can succeed through diligent study and hard work.”

Interesting fact: “I still have an ugly 1966 Chevrolet truck that I drove in high school.”

Hobbies: “I enjoy woodworking and gardening.”

Evelyn Porter (NOT AVAILABLE FOR PICTURE)

Developmental Mathematics
– University College

Years at UVU: 6

Academic background: Bachelor’s degree in mathematics from the U.S. Naval Academy; master’s degree in engineering management from Old Dominion Univ.

Inspiration: “No one person, but several different people. Their common traits tend to be their willingness to persevere in order to achieve their goals, instead of quitting when things are hard, all while maintaining a positive outlook. People who readily recognize the successes of those around them and who are willing to admit their mistakes, correct them and move on.”

Interesting fact: “I have lived in (not just visited) 12 states. And I am a huge baseball fan!”

Will Speed Date for Travel



In my quest to provide our alumni with great benefits, I’ve investigated travel programs, which are popular alumni benefits. Unexpectedly, I received an invitation to attend a conference where I would learn how to create a successful travel program. I was shortly on my way to Virginia Beach, Va., eager for adventure and knowledge, where I learned three very important lessons.

Lesson No. 1: Don’t plan a trip to an ocean resort in winter (unless it’s in the tropics).

After 11 hours of travel, I stepped into the frigid, humid air of the Eastern Seaboard. Off-season rates in a summer resort town helped reduce the organizer’s costs but didn’t provide the ideal experience.

Lesson No. 2: Free is never free (though the payoff can still be worth the price).

For two days, several hundred travel planners who paid little or nothing to attend the conference met in a convention center where 100 vendors had been promised six minutes each (a la speed dating) to convince the planners to consider the place, person or cruise the vendor was selling.

I heard about destinations like Pigeon Forge, Tenn., the home of Dollywood, and Hardy’s Reindeer Ranch, a highly recommended resort in the wilds of Indiana. From Nova Scotia, Canada, to Fargo, N.D., I heard about every kind of place imaginable. My brain was fuzzy and my smile was forced from exhaustion, but I had information.

Lesson No. 3: Be open to new ideas (and let someone else make the plans).

During the conference, I learned that the best cruises are around the Hawaiian Islands, the Canadian Rockies are gorgeous by train, and the moon-

shine tour is one of the best attractions in Pigeon Forge (even without a sample). I also learned about “mystery tours” for tourists who enjoy traveling without knowing the final destination.

The end result of this adventure is UVU’s new alumni travel program, which you can find at uvualumni.org/travel. Imagine swimming with dolphins or exploring Budapest from the Danube River with other UVU alumni. There might even be a mystery trip on the list – the reindeer farm came highly recommended. And feel free to suggest a destination. I’m (almost) always up for an adventure.

Jeri Allphin
Alumni Director



Liberty Mutual is a proud partner of Utah Valley University Alumni Association

For additional information about Liberty Mutual and our car and home insurance, please contact us at 800-524-9400 or visit us at libertymutual.com/uvu.



Responsibility. What's your policy?





UVU ALUMNI ASSOCIATION #111
800 W. UNIVERSITY PARKWAY, OREM, UT 84058-5999

CHANGE SERVICE REQUESTED

Nonprofit Organization
U.S. Postage
PAID
Utah Valley
University



**NOELLE
PIKUS-PACE
UVSC 2005**

I am UVU

NOELLE PIKUS-PACE. Wife, mother, Olympian, world skeleton champion, business owner: SnowFire Hats. B.S. Community Health, track & field first team All-American, Summa Cum Laude, class of 2005.

"I was always taught to put my education first, and I truly believe that I would not have been able to compete in the Olympics if it weren't for UVU. The professors and coaches were amazing. They worked with my schedule and understood my goals. I was able to fulfill my dreams of competing in track & field, obtaining my bachelor's degree and competing on the World Cup circuit, which led to the Olympic Games in 2010. Thank you UVU!"

Share your story at uvualumni.org

