

OREGON STATER

SPRING
2016

**A WINNER
AT GROWING
WINNERS**







Manny Mammoth?

If — in Oregon State's formative years — someone had unearthed what contractors found under Reser Stadium's north end zone on Jan. 25, maybe our beloved mascot would have big, floppy ears and a long trunk rather than giant front teeth and a floppy tail.

A worker on the Valley Football Center expansion (see page 52) was digging about 10 feet deep with an excavator when he saw a huge bone in the dirt. Work halted. A call went out to OSU's anthropology department.

"At first when I went over and looked at the bones, I thought, 'Well, this is pretty cool,'" said associate professor Loren Davis '92 '96, who determined that the big bone was the femur of an ancient mammoth. "What I didn't appreciate was just how much people would be interested in it because it was in a football stadium."

Davis (far left, examining the femur with graduate student J.D. Lancaster '15) determined that the area also held more mammoth bones and bones of bison, horses and maybe camels.

The find wasn't all that unusual for OSU's prehistoric neighborhood, he said. Nonetheless, the next week was a blur as the football angle generated untold web stories and at least 150 million clicks.

Davis nearly lost his voice from doing interviews with reporters around the world. Anthropology students, community volunteers and faculty sorted and packed and hauled away the bones so they could be preserved and studied. Construction work resumed in the stadium.

Entrepreneurs quickly obtained university licenses to produce Beaver fan gear with a mammoth motif, and OSU President Ed Ray confessed that while he was thrilled at the fun and the learning opportunities generated by the find, he had — for a wistful moment — hoped that Davis might say the bones were from "some kind of giant, prehistoric beaver."

Davis said he hopes the discovery and the ensuing hoopla leave a lasting sense in Beaver Nation that "Oregon State University is a special place not just for the built environment — what we see on campus now — but for the whole wonderful history we have under our feet." 🦶

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 Cover story: Middle school teacher and OSU alumnus Ricardo Larios is one of the best.



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 Why wait until graduation to go to market with great ideas?



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On the cover: Milken Educator Award winner Ricardo Larios '05 has high expectations. Story on page 20. (Photo by Hannah O'Leary)
Opposite page: Final Four-bound Sydney Wiese, above, and Jamie Weisner celebrate winning the Pac-12 Women's Basketball Tournament. Story on page 48. (Photo by Karl Maasdam)

ON THE WEB

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FINE TIME TO BE A BEAV

The women's Final Four appearance (after the *Stater's* press deadline) capped a season of Beaver success.



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OSUAA: Search for "Beaver Careers Group"



Stumbling over memories

In some ways I'm a figment of my own imagination. I suspect many of you are the same.

When this old Beaver thinks "OSU student," I see a teenager from a family of modest means who enrolls three months after high school, takes four or five years to graduate — easily covering expenses with proceeds from summer and work-study jobs — and then gets a diploma and a career. My personal image adds that extra "or five years" because certain students — future *Oregon Stater* editors, for example — might have needed a few terms to realize that smoking cigars while steelhead fishing on the Alsea River wasn't an actual major. It's a good thing college was so cheap back in the 1970s.

It's not so cheap anymore, and that's just part of the challenge for OSU leaders, faculty, staff, alumni and friends who want more students to have a life-changing experience at Oregon State and a rewarding life beyond graduation.

OSU has had its own transformative experience over the past decade, becoming a better-equipped, better-staffed educational powerhouse. Now, as President Ed Ray has said (see page 10), it's time to ensure students from all backgrounds share in the rewards. He and his staff have launched a Student Success Initiative and are reappropriating the university budget to support it. That's good, but it won't be enough.

So it's great news that the OSU Foundation — which has always supported scholarships and fellowships — will soon begin a focused initiative to provide resources for a wider range of students, from the high-achieving to the high-need, considering not just tuition costs but the full cost of attendance.

It's even better news that the foundation just received a \$1 million gift from a former transfer student to help promising transfer students afford the costs of attending. Although new to Oregon State, incoming transfers (like 2005 graduate Ricardo Larios, featured in the cover story) often aren't eligible for much of the assistance that's available to traditional freshmen.

Meanwhile, it's time for all of us to see that our idea of "traditional" students is falling apart. About 38 percent of OSU's 2015 graduates transferred credits from other institutions. We have more transfers than ever, more underrepresented minorities and international students than ever, more older students, more veterans than at any time in several decades and more Ecampus students, many of whom get their degrees without ever coming to campus.

For those of us in the broad community of Oregon Staters, it brings a challenge to re-imagine who we are, what we value and how we support it. 🍌

— Kevin Miller '78, editor

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Kathy Bickel, executive director, OSUAA, and vice president of alumni relations, OSU;
Jon Bettendorf '88, president, OSUAA

Editor: Kevin Miller '78

Associate editors:

Alumni news, history and traditions:

Ann Cassinelli Kinkley '77

Design: Teresa Hall '06

Philanthropy: Molly Brown

Sports: Kip Carlson

Photographer: Hannah O'Leary '13

Designers: University Relations and Marketing design team

Bookkeeper, chief proofreader: Janet Phillips McKensey '79

STATER ADVERTISING AND OSUAA SPONSORSHIP SALES

Angela McBride,
Marketing associate director,
204 CH2M HILL Alumni Center,
Corvallis, OR 97331-6303
541-737-7859
angela.mcbride@oregonstate.edu

LETTERS, OTHER ITEMS FOR PUBLICATION

stater@oregonstate.edu, or *Oregon Stater*, 204 CH2M HILL Alumni Center,
Corvallis, OR 97331-63039

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CONTACT OSUAA

877-OSTATER (877-678-2837)
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Support for Brothers

Thank you for the wonderful article in the winter edition about “Our Brothers Keepers,” a nonprofit umbrella organization started by a group of 1963–64 Betas after a 2003 reunion.

One of the Betas mentioned “this is not the guy I remember,” thinking of his fun days as a fraternity brother. I too knew lots of these brothers during those days; I was in Delta Delta Delta and yes, they were fun!

But this article made me remember one special Beta from the class of 1963 that I met briefly when he gave me a ride to Portland during a long weekend. When I asked him what he planned to do over the holiday, he simply said he and some friends were going to remodel a room for an elderly woman who needed help. Without a bit of bravado, he mentioned that was how he spent most of his holidays. That young man’s name was Bill Barnum, and unfortunately for the world, he died very young in an airplane crash. But it must give his family and friends comfort to know his brothers are carrying on his good works.

I encourage all of you to support “Our Brothers Keepers” and the nonprofits that they embrace. More information can be found by emailing obkosu@gmail.com.

Judie Smith Silcox '64
Dumfries, Va.

Rarely read it, but ...

I rarely read the *Oregon Stater*, considering it usually in a fairly negative light (rah-rah, look at all these smart students and rich people, give us your money ...) but the winter 2016 issue was somehow quite different. I read it cover to cover and really enjoyed and appreciated it.

What first got my attention was your “Short Walk” article. Very down to earth and fun to read. Then there was the article on the “Strand Ag New Again”... brief, interesting and informative. Then the letters to the editor; some good points. Loved the “Bit about Bees.” Interesting about the OSU enrollment levels. But what I really found interesting was the article on Mary McDonald and her forest, husband and all the other things that Ann Kinkley included. The Alumni Profile on Lt. Holliman got my attention, too.

A second-generation OSU grad from over forty years ago, I never communi-

cate with OSU in any way and always tell the alumni callers to buzz off when they are canvassing for money, so that makes this letter to you a first. The winter 2016 issue reflected a lot of good work and a clear intent to be informative, engaging and meaningful ... something was very different in this issue.

Really got a lot out of this number of the *Oregon Stater*, and wanted to tell you. Thank you!

Virgel Clark '74
Boise, Idaho

Fell not fall

It is grammatically incorrect to say, “At left, forestry students ... watch fellow logging crew members learn to safely fall a tree.” The proper form is to fell a tree. The verb fall cannot be used in a transitive sense. Fall is not supposed to take an object.

Sylvia A. Eckles '09
Salem

Editor’s note: Point taken. You’d think an editor whose mother was raised in an Oregon logging camp would have gotten this one right.

Bad bee math

I may not know much about bees and honey but I’m relatively good with math. (It’s an engineer thing.) The last question and answer (winter issue, “What do you know?”) regarding pounds of honey produced in Oregon per year can’t be correct. The answer provided was “350,000 pounds ... or one pound per Oregonian.” If the 350,000 pounds total is correct that would be $350,000/3,970,000 = 0.088$ pound per Oregonian. With general rounding that could be 0.1 pound per Oregonian so maybe you meant to write “one-tenth,” not “one.” On the other hand, if the “... slightly more than one pound per Oregonian” is correct, the total would be slightly more than 3,970,000 pounds per year.

The *Oregon Stater* is a great magazine. Keep up the good work!

Jim Carnahan '74
Baker City

Editor’s note: This letter and the two that follow are but a sampling of the swarm of questions and corrections we received about the final question and answer in our “What do you know?” quiz about bees in the winter 2016 issue. See the correction on page 8.

Enjoyable but confusing

I enjoyed the quiz about bees, but when I read the answer to question 9 on page 64, I was confused.

It stated: “B. 350,000 pounds of honey are produced yearly in Oregon, or slightly more than one pound per Oregonian ...” Since there are now more than 4 million people in Oregon, the second part of the answer could not be correct. But maybe the second part of the answer is correct but the actual correct answer to the quiz was C. 3.5 million pounds. I am left wondering.

John Beard '64
Tigard

Editor’s note: For this and the letter below, see the response to the letter above and the correction on page 8.

Need to check figures

Just finished reading the winter 2016 issue, print of course. I liked the quiz on bees as I found it educational. The math needs to be checked on question 9. There are more than 350,000 Oregonians in the state. Maybe there was 3.5 million pounds of honey produced.

Joe Pauletto '72
Vancouver, Wash.

Memories of bias

I want to thank you for the article “Not getting it done” (winter 2016) and thank President Ray for writing it. I attended OSU from 1995–1998. I remember during my time there that there were students of color complaining about lack of diversity. I don’t remember the details, the results or if anything happened. Simply put I don’t remember because I am white, and at that time I just didn’t get it. I did not understand that their experience at OSU could be starkly different from mine.

Years later I ended up teaching in Chapel Hill, N.C. I was in one of the best school districts in the nation, yet black students were performing at 78 percent, where white students were at 93 percent. This time, I listened. I discovered my own white privilege and that I could not sit back and do nothing.

Since that time I have sought out a continued understanding of my own privilege, racism (overt and otherwise) and racial reconciliation. I understand President Ray’s challenge of how easy it is to go about everyday business and not

realize that there is work, so much work that still needs to be done.

Today, as I read his piece, I was proud to be a Beaver. Proud to be part of a school that has a leader that will hopefully make a difference. A difference in which students of color feel safe to share their fears and feelings. That OSU is a place in which white students stop and listen and try to figure out how they won't be the next University of Missouri.

I am deeply grieved by my own lack of knowing and action when I was a student. I am sorry that I did not stop and listen, that I did not try to understand, and that I continued to stay in my white privilege.

I will pray for you, President Ray, that you have the courage, tenacity and insight in how to lead OSU into a new era in which students of color will not fear and feel alone and threatened.

Heidi Lyda '98
Indianapolis, Ind.

Editor's note: We received several letters in response to the "Ed Said" feature in the winter issue, most in support of President Ray's pledge to do more to make all students feel welcome and safe at Oregon State. However, not everyone agreed, and the letter below is indicative of some of the sentiments expressed in the other direction.

Shaking his head

I had to shake my head at Ed Ray's piece in the winter edition. He has surrendered to a mob of the disaffected, the agitators, and the delicate, oh-so-easily offended, when he should have told them to stiffen their spines and grow up. The victorious mob (what, two percent of the campus population?) will only demand more, as Ray should know.

Mr. Ray finishes by promising to hire more people "of color." He needs to be reminded that the customers, his students, pay for the opportunity to receive a good education. That opportunity is enhanced by hiring based upon capability, not (necessarily) color.

Charles S. Chase '59
Medford

Prompted to respond

I've always enjoyed the *Oregon Stater* and in the winter 2016 issue, there are a couple of items that prompted me to respond. The first brought back memories

that put a smile on my face. It came from the "Editor's Letter" and the mention of college costs.

I started my freshman year in the fall of '65 after three months' work in a Roseburg lumber mill with \$1,200 in my bank account. I pledged a fraternity, lived frugally and kept a record of every expense, down to the penny. I spent \$1,196 for everything that year.

The following years, three months in the mill and a work-study job washing tissue culture glassware on the fourth floor of the old Ag Building at 75 cents an hour easily paid all my costs. I cringe to think how expensive school is now and what it would be like to graduate tens of thousands of dollars in debt. That is no way to start out your life.

The second prompt is from "Ed Said." It replaced the smile on my face with a frown. I find it sad to realize that 150 years of emancipation have failed. Racial bias is spawned from ignorance, pure and simple. If you're biased, you're ignorant. It shames me to think that so many OSU students and staff are still that stupid. Let's become a little more intelligent and make me proud to be a Beaver Believer.

Dale Greenley '69
Myrtle Creek

Push against ignorance

President Ray: This week I read your article, "Not getting it done" in the *Oregon Stater* and it stirred up a memory that has haunted me off and on since I was a student at OSU.

A little background: I'm a 1990 business alumnus who has worked in the high-tech industry and now run my own hog farm. Until I attended Oregon State, I had almost no interaction with racial minorities. As a student I worked at Dixon Recreation Center and I checked student identification. One evening, two black students met at the entrance gate, one student going out, the other coming in and they greeted each other with handshakes. I thought I saw one of them hand the other his student ID.

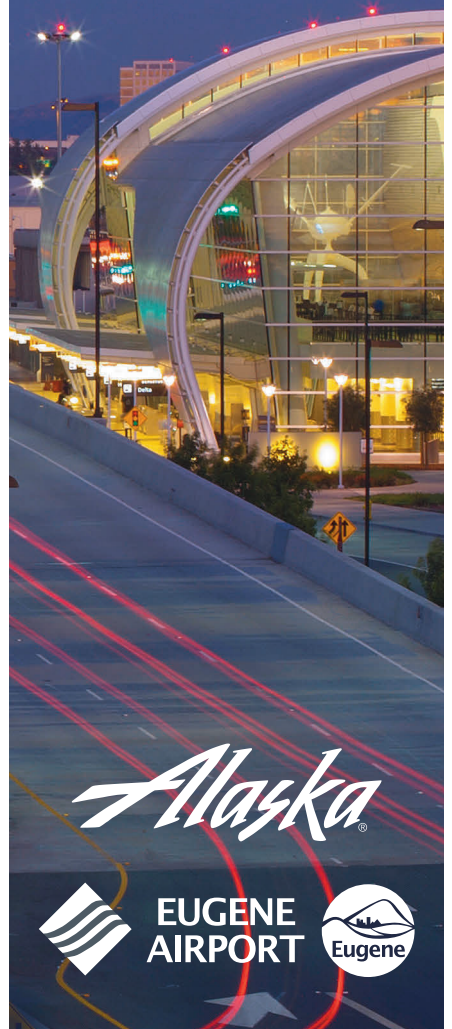
When the incoming student presented his identification at the counter, I looked at the photo and wasn't sure it was him, so I asked him to verify his social security/student ID number. ... His friend came unglued at me, yelling in my face and calling me a bigot. With one student yelling and the incoming student looking sincere

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when he said he really didn't have the number memorized, I let him in.

The next day, one (maybe both) students filed a complaint with the university over the incident. I told my side of the story ... and that was the end of the inquiry. To this day, I still think about that incident and wonder what really happened at Dixon that day?

I was really upset about being declared a bigot. I felt like I gave everyone who approached the entrance gate the same scrutiny. Now, many years later, I've heard about the research that shows how white people have racial bias and don't even know it. As a white farm boy from rural Oregon, did I suspect them of illegally sharing a student ID card because they were black? I don't know, maybe.

To this day, it still bothers me and I don't know what I could or should have done differently. ... In retrospect and with 25 years of business experience under my belt, I think I should have been put in a room with the students and a mediator so we could learn something about each other. It scarred my memory and I wonder if those guys still think about it too or was it just one of a long list of racial incidents that they've endured their whole lives?

I don't envy your task, trying to integrate different cultures and stamp out the seeds of ignorance-based bias and insensitivity. I don't know what I would do in your shoes. Somehow, the students have to learn to talk to each other and see their sameness instead of their differences. I wish more would have been done in this area when I was a student, but it's never too late to start and if anyone can take on this challenge and make a positive difference, it's you. Keep up the great work.

Matt Alford '90
Gaston

Divestiture urged

The OSU Foundation recently made a decision to continue its investments in coal, gas and oil, and that decision has been discussed in recent issues of the *Stater*. That conclusion is in spite of the profound evidence connecting human activity to the alarming increase in greenhouse emissions into the air, oceans and land.

Pulling 20 million oil barrels per day from inside the earth is a statement of "where we were" 60 years ago. Pulling 80 million barrels per day is a statement of "where we are." A statement by the university today will tell us "where we want to go."

In Norway, they have offshore oil production and yet they are divesting from all coal, oil or gas commodities. The University of Washington has done likewise with coal-related endowments, as has Stanford University. Nancy Pfund, a managing partner in a large venture capital firm (DBL Partners) which focuses on social, economic and environmental development, stated: "People are boarding this train (divestment from coal and oil) and it's time to hop on if you want to have a thriving 21st-century economy."

Oregon State University can "bury its head in the sand," or it can reaffirm a conviction that is embraced by all academia, of critical thinking, scientific achievement and ethical progress. Thus, renewing our faith not simply in OSU's future, but far beyond.

Jim Washburn '68
retired OSU diving officer
Corvallis

Honor the mission

I am a faculty member in the College of Education and involved with the group OSU Divest.

Mission-based institutions have long used divestment as one strategy in response to social problems. For example, the Quakers divested from the slave industry in the mid-19th century ... and faith groups and universities led divestment from South Africa and its system of Apartheid in the 1980s. Since 2012, the international fossil fuel divestment campaign has been a response to a trans-national extraction industry whose business plan is to plunder the Earth regardless of the long-term consequences.

OSU is a mission-based institution, dedicated to "healthy ecosystems and a sustainable future." The OSU Divestment Campaign seeks OSU's divestment out of the fossil fuel industry. We believe, if it is wrong to wreck the planet, as the extraction industry continues to do, it is morally wrong for this industry to profit from this wreckage.

Recently, 195 nations at the Paris Climate Conference signed an agreement, acknowledging the imperative that the world must decarbonize our way of life very quickly if humanity is to survive. Accordingly, institutions that have committed to full or partial fossil fuel divestment include the Rockefeller Foundation, the French Parliament, the cities of Melbourne, Australia, Corvallis, Eugene and Seattle, Stanford University, Syracuse

University, the United Church of Christ and many more (see gofossilfree.org/commitments).

We ask that OSU's investment practices be consistent with the university's ultimate mission, which is the affirmation of life. We ask that the OSU Foundation fulfill its fiduciary responsibility to our students by investing in industries that are committed to a more hopeful future fueled by renewable energy. There is too much at stake for our students, our university and an inhabitable planet to not take action.

Ken Winograd
Corvallis

Print version fan

Just a great latest issue of the OS. Great variety, arrangement and content of articles. It's so great to have it in my hand ... I never would read it if it were online.

Dave Beach '67
Wilsonville

Send us letters

We love letters. We might edit them for clarity, brevity or factual accuracy. Send them to stater@oregonstate.edu or Letters to the Editor, *Oregon Stater*, OSUAA, 204 CH2M HILL Alumni Center, Corvallis, OR 97331-6303.

Corrections

Several readers correctly noted that we completely blew the final question and answer in our "What do you know?" quiz about bees in the winter 2016 issue. Oregon's annual honey production is close to 2.8 million pounds. The state's population around 4 million, so Oregon produces about 0.7 pounds per resident.

We apologize. However, we're glad we have so many sharp-eyed readers, and grateful that so many of you lessened the sting of your letters by including a general compliment about the *Stater*.

View corrected pages here:
bit.ly/winter2016correctedquiz
bit.ly/winter2016correctedanswers

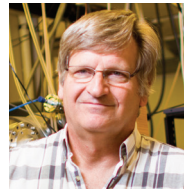
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Spread the word



OSU ADVANCES GROUNDBREAKING THERAPY TO TREAT LOU GEHRIG'S DISEASE

Oregon State researchers have stopped the progression of fatal amyotrophic lateral sclerosis, known as ALS or Lou Gehrig's disease, in some types of mice using a new treatment. The findings, scientists indicate, are some of the most compelling ever in the search for a therapy for ALS. "We are shocked at how well this treatment can stop the progression of ALS," said Joe Beckman, lead author on this study, a distinguished professor of biochemistry and biophysics in OSU's College of Science. See page 15.



As part of an ongoing effort to get alumni and other friends to help share the OSU story, **Steve Clark '75**, vice president for university relations and marketing, joins the *Oregon Stater* in presenting another batch of talking points for not-so-bashful Beavers.

COLLEGE OF BUSINESS HAS NEW PORTLAND HQ

It's an exciting time for Oregon State in Portland. The College of Business has established a Portland headquarters in the Pearl District and will launch an MBA program in innovation that involves a hybrid mix of online and in-person learning. The college offers other MBA programs in executive leadership and business analytics, with additional tracks coming in supply chain, logistics management and financial planning. See page 19.



ECAMPUS RETAINS TOP 10 NATIONAL RANKING

Oregon State's Ecampus is again ranked in the top 10 nationally for online bachelor's degree programs by *U.S. News & World Report*. Ecampus delivers 20 such programs online; an additional 23 OSU graduate degree and certificate programs are offered. See page 29.



MU AMONG NATION'S 'MOST PHENOMENAL'

Oregon State's venerable Memorial Union is included in a list of the 51 most phenomenal student unions in the nation compiled recently by EDsmart, a national online publication that covers higher education. EDsmart recognized the Memorial Union for offering a wide variety of student programs, plus great places to study, relax and enjoy a meal.



UNIQUE HUMANITARIAN PROGRAMS LAUNCHED IN LIBERAL ARTS, ENGINEERING

OSU's College of Liberal Arts and the Graduate School have launched the nation's first graduate degree program in Environmental Humanities, while the College of Engineering has started one of the nation's few programs in Humanitarian Engineering.



DESTINATION OF CHOICE FOR VETERANS

More than 3 percent of Oregon State's enrollment is made up of veterans of military service and more than 1,000 OSU students receive veteran educational benefits — the most of any university in Oregon. OSU has long been known as the "West Point of the West" because of the university's historic U.S. Army Reserve Officer Training Program. OSU also proudly hosts ROTC programs for the Air Force, Navy and Marine Corps.





Committed:

OSU's president says it's past time to focus more on student success

There's always plenty of applause as OSU President Ed Ray shares the good news at his annual State of the University address in Portland, but, on February 12 at the Oregon Convention Center, he brought the room to dead silence by calling out as "shameful" the failure of himself, his university and U.S. higher education to do more to provide the transformative experience of a college education to a broader cross-section of students.

Oregon State's six-year graduation rate for all students is nothing to be proud of, at 63 percent, Ray said, but it's almost 11 percent lower for students from underrepresented groups.

"We're failing to provide for the inclusive excellence we are committed to as a university," he said. And then, drawing the loudest and most sustained ovation of the afternoon, he made a pledge:

"By 2020, we will raise Oregon State's first-year retention rate for all students from 83.8 percent to 90 percent and OSU's six-year graduation rate for all students from 63.1 percent to 70 percent — without any achievement gaps for underrepresented students ... regardless of a student's economic circumstances."

Why do you think your pledge drew such a positive response, not just from the State of the University audience but from those outside the OSU community, including some often-cynical media commentators?

"I think that was because everybody is interested in hearing somebody say 'mea culpa' and indicate what they're going to do, instead of everybody just agreeing there's a problem and then going about their business."

That begs the question: What are you going to do?

He noted that OSU is part of the University Innovation Alliance (theuia.org), whose 11 members are committed to research and share ideas that improve success for students of all backgrounds. He and the other presidents in the alliance have assembled teams of experts and advocates from inside and outside their universities to help find and implement changes that work.

"Probably what gets the most attention is the predictive analytics piece, in which you gather information on all of the factors that can affect student success. To give you a sense of the possibilities, Georgia State University adopted the EAB (Education Advisory Board) software, which we're now using as well, to upload data on student performance going back to four years before college, and to analyze the data for ideas that work. They started about seven years ago, and they actually

got accused of doctoring the numbers, because they started with a very poorly prepared student base, and a six-year graduation rate of something like 34 percent, and in six years they raised it to 52 percent. And they eliminated the achievement gaps between different subgroups of students.

"We have about 80,000 student records over 11 years to analyze and identify paths to success and paths to failure. If students want to know what they need to do to be successful in a certain field, we'll have it. You can go to a student early on and intervene and say 'Look, you're in your second quarter as a freshman. Keep doing what you're doing and you won't be here in a year. Here's what you need to do differently if you really want to finish your education.'

"We obviously need more academic advisors for this to work, and we need early intervention programs. We need faculty to help us identify potential problems. When it's midterm time in your first quarter of college and you're struggling, we want to intervene and help you get off on a good footing.

"It doesn't do you any good if we accumulate data but we can't analyze it and act upon it. One of the things our team has done recently is identify the 20 courses where students most often get stuck. Then you look at the data. Is it our presentation? Is it the students' preparation? Do we need more peer mentoring? Do we need course redesign? How can we remove these barriers to student success?"

“When it’s midterm time in your first quarter of college and you’re struggling, we want to intervene and help you get off on a good footing.”

He acknowledged that, despite his pledge in February that he’s looking for fast results, it can be hard for large institutions to quickly make meaningful changes.

“There are things we can do right away. There is low-hanging fruit. Right now, this year, we are zeroing in on people who are close to graduation but don’t graduate. A lot of them simply run out of resources. To what extent can we use micro-loans or grants to make it possible for them to finish without having to drop out? Can we get some quick success there? I think we can.

“One thing we haven’t done here yet that I hope we can get into is look closely at the messages some of our programs are providing to their majors in the first year. For example, at Georgia State, they were telling their political science majors that they needed to get a C or better in Poli Sci 101 to continue in that major. Then they looked at the data and they saw that people who got a C in that course had only a 6 percent chance to earn degrees in that major!

“We need to look at the messages we are sending about what it takes to succeed.”

Hanging over the discussion about improving student success are the rising costs of attending college — not just tuition, but all of the associated costs — and the massive debt incurred by many graduates and many who don’t graduate. Ray has long maintained that as a public university and especially as a land grant university, Oregon State has a special obligation to make itself accessible to students of limited means. Harking back to his own undergraduate years at Queens College, the publicly subsidized institution in the New York City borough where he grew up, he said he gets this at a personal level.

“I didn’t even apply to other schools, partly because I didn’t have the grades. But if I had, so what? I couldn’t even go out for pizza on Friday nights. I couldn’t dress the way you had to dress at those schools. I would have felt humiliated and out of place at just about any place other than Queens College, even if they gave me a full-tuition scholarship at those other places, because I had nothing. You still have to live, you still have to eat, you still want to be part of your peer group. I couldn’t have afforded it. The people of New York City made it possible for me to go to college.”

Regardless of which measures OSU deploys as Ray pushes his student success agenda, most of them will come with a price tag. With that in mind, the OSU Foundation — which has always emphasized support for student scholarships and fellowships in its fundraising — plans to roll out later this year an initiative for broad and deep support for student success.

“You can see a lot of ways that donors and businesses can partner with us to empower students to have more success. A lot of our students can’t afford some of the extras — the internships and the travel programs — that can lead to success. College is not just about what happens in class.

“We’re in the early stages of understanding what the building blocks are for greater student success going forward. As we develop a better understanding, we’ll explain what it is we need to do and how people can help make it happen.

“And then we’ll continue to learn and expand the effort, because this won’t be a one-off deal. We expect this to be an expanding, improving effort going forward. We are going to do this.” 🍕

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Test your squirrelliness

Like much of the nation, OSU's campuses abound with them. They're ubiquitous, cute and often surprisingly loud. At times they seem to take delight in driving our pets crazy. In some parts of the country they might even be for dinner. We asked Dana Sanchez, associate professor and extension wildlife specialist in the Department of Fisheries and Wildlife, to help us drive *Stater* readers nuts with a few questions about squirrels. (Answers are on page 64.)

1. True or false: Squirrels are rodents.
2. The squirrel family (Sciuridae) includes which three of the following types of animals?
 - A. squirrels (tree, ground and flying)
 - B. pikas
 - C. marmots
 - D. chipmunks
 - E. shrews
3. Oregon has ___ native tree squirrel species and ___ non-native, invasive species of tree squirrels.
4. Besides being known for gliding from tree to tree, the northern flying squirrel is notable because it is only active:
 - A. after sunrise.
 - B. at night.
 - C. in the winter.
5. Although it is a ground-dwelling species, this squirrel is commonly observed climbing, sitting atop objects such as rocks and fence posts, and even occasionally in trees. What is its name?
6. Several Oregon species are notable for the dark and light stripes on their faces. Like a famous animated cartoon band, what is the name of this group of squirrels?
7. Squirrels have ever-growing ____, which must be kept sharpened.
8. What is the largest squirrel in Oregon? Hint: It occurs in habitats where ample vegetation is closely associated with rocks or piles of boulders, and is only active for 135–150 days per year, spending the inclement seasons in hibernation.
9. While hollows in trees are commonly used for nesting, tree squirrels will also build leaf-and-stick nests in the canopies of trees. What are these called?
10. Ground squirrels and marmots primarily feed on the leaves of ____, whereas tree squirrels, chipmunks and flying squirrels primarily feed on _____.
 - A. nuts, fruits, plant buds and fungi
 - B. grasses and forbs

Photo by Hannah O'Leary

Top-ranked DEGREES

ONLINE

As a manager for Boeing in Portland, **Kathleen Garney** could have simply settled into her rewarding career at a Fortune 500 company. “But I wanted to turbocharge it,” she says. That’s why she enrolled with Oregon State Ecampus and is working on an **MBA in Executive Leadership** – a hybrid program with online course work and in-person classes in Portland.

Thanks to Ecampus, thousands of students like Kathleen around the world are able to pursue an Oregon State degree online and move forward in their careers.

Read more here:

ecampus.oregonstate.edu/kathleen

Kathleen Garney
OSU Ecampus student
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She works to help others feel welcome

By Gretchen Schrafft

During one February day not long after she'd returned from two conferences in distant parts of the country, OSU senior Osenat Quadri was up until 3 a.m. making chocolate-covered strawberries with her sorority sisters to sell for their annual Valentine's fundraiser. A human development and family sciences major who plans to become a pediatric physician's assistant, she set her alarm for 7 a.m. so she could make it to a 9 a.m. class.

That afternoon she would work at the Lonnie B. Harris Black Cultural Center, answering phones and orienting visitors, and — because it was Black History Month — that night she would co-present an event entitled "Messages in Music," covering everything from Chuck Berry's dance moves to the political nature of Beyonce's Super Bowl halftime performance.

"I'm a busy lady," she said.

Both of the out-of-town conferences were part of her work to grow her leadership skills, but, at 22, she's already a leader at Oregon State. As a sophomore, she co-founded the OSU chapter of the historically black sorority Zeta Phi Beta, and currently serves as its president. Last year, she was vice president of the Black Student Union and served on the committee that selected the Lonnie B. Harris Black Cultural Center's assistant director. She's also been active in helping encourage students from traditionally underrepresented groups to choose majors in STEM (science, technology, engineering and math) fields.

Quadri refers to the Harris Center, in its new brick building with a snappy tan-and-beige paint job, comfortable couches and "Black Lives Matter" painted on the window, as her "home away from home."

It was a lifeline during her freshman year, when the jump from living with her family in her small Washington town to the OSU dorms proved challenging.

"Living in the dorms, I was the only black person on my floor. It's different being like, the only black person in a 300-plus classroom, compared to high school where it's 20 or 30 students and the teacher knows your name. The teacher doesn't know your name here. I wanted to find a space where I could be comfortable and feel comfortable, a space where I won't have to code switch." (Code switching is how linguists describe altering one's speech pattern for certain audiences.) "It's a space where I can be myself and be accepted."

She said the tiny number of African American undergraduates on campus, which hovers at around 1.4 percent of the student body, is linked to the experience she had as a freshman.

"That's a problem that we have in our African American community," she said. "Students come but they don't feel that sense of community or they don't feel comfortable or welcomed, and they go back home."

Quadri's postgraduate plans include spending time with her family and resting a little as she applies to graduate schools. Through her service work at Oregon State, she hopes to leave behind a campus where "that sense of belonging" is more readily available to students outside the majority culture.



Senior Osenat Quadri finds a comfortable refuge in the Lonnie B. Harris Black Cultural Center. (Photo by Hannah O'Leary)

"I definitely want to be heard and I want people to see my work," she said.

Not to worry, said Allison Davis-White Eyes '13, OSU's director of diversity and cultural engagement, one of Quadri's biggest fans.

"She's a visionary. She is going to be somebody who makes a difference no matter where she goes." 🍌

Gretchen Schrafft teaches writing and is a graduate student in OSU's MFA in Creative Writing program.

New therapy halts progression of Lou Gehrig's disease in mice

OSU researchers have announced that they have essentially stopped the progression of amyotrophic lateral sclerosis (ALS), or Lou Gehrig's disease, for nearly two years in one type of mouse model used to study the disease, allowing the mice to approach their normal lifespan.

The findings, scientists indicate, are some of the most compelling ever produced in the search for a therapy for ALS, a debilitating and fatal disease, and were published in *Neurobiology of Disease*.



Joe Beckman

"We are shocked at how well this treatment can stop the progression of ALS," said Joe Beckman, lead author on this study, a distinguished professor of biochemistry and biophysics

in the College of Science, and principal investigator and holder of the Burgess and Elizabeth Jamieson Chair in OSU's Linus Pauling Institute.

In decades of work, no treatment has been discovered for ALS that can do anything but prolong human survival less than a month. The mouse model used in this study is one that scientists believe may more closely resemble the human reaction to this treatment, which consists of a compound called copper-ATSM.

It's not yet known if humans will have the same response, but researchers are moving as quickly as possible toward human clinical trials, testing first for safety and then efficacy of the new approach.

ALS was identified as a progressive and fatal neurodegenerative disease in the late 1800s, and gained international recognition in 1939 when it was diagnosed in American baseball legend Lou Gehrig. It's known to be caused by the death and deterioration of motor neurons in the spinal cord, which in turn has been linked to mutations in copper, zinc superoxide dismutase.

Copper-ATSM is a known compound that helps deliver copper specifically to cells with damaged mitochondria and reaches the spinal cord where it's needed to treat ALS. This compound has low toxicity, easily penetrates the blood-brain barrier, is already used in human medicine at much lower doses for some pur-

poses, and is well tolerated in laboratory animals at far higher levels. Any copper not needed after use of copper-ATSM is quickly flushed out of the body.

Experts caution, however, that this approach is not as simple as taking a nutritional supplement of copper, which can be toxic at even moderate doses. Such supplements would be of no value to people with ALS, they said.

The new findings were reported by scientists from OSU; the University of Melbourne in Australia; University of Texas Southwestern; University of Central Florida; and the Pasteur Institute of Montevideo in Uruguay. The study is available as open access in *Neurobiology of Disease*.

Using the new treatment, researchers were able to stop the progression of ALS in one type of transgenic mouse model which ordinarily would die within two weeks without treatment. Some of these mice have survived for more than 650 days, 500 days longer than any previous research has been able to achieve.

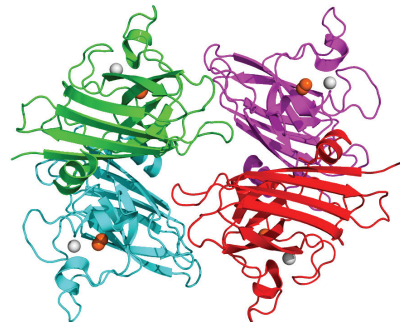
In some experiments, the treatment was begun, and then withheld. In this circumstance the mice began to show ALS symptoms within two months after treatment was stopped, and would die within another month. But if treatment was resumed, the mice gained weight, progression of the disease once again was stopped, and the mice lived another 6-12 months.

In 2012, Beckman was recognized as the leading medical researcher in Oregon, with the Discovery Award from the Medical Research Foundation of Oregon. He is also director of OSU's Environmental Health Sciences Center, funded by the National Institutes of Health to support research on the role of the environment in causing disease.

"We have a solid understanding of why the treatment works in the mice, and we predict it should work in both familial and possibly sporadic human patients," Beckman said. "But we won't know until we try."

Familial ALS patients are those with more of a family history of the disease, while sporadic patients reflect the larger general population.

"We want people to understand that we



Copper, zinc superoxide dismutase is essential to life, but when damaged can become toxic. (Illustration courtesy Oregon State University)

are moving to human trials as quickly as we can," Beckman said. "In humans who develop ALS, the average time from onset to death is only three to four years."

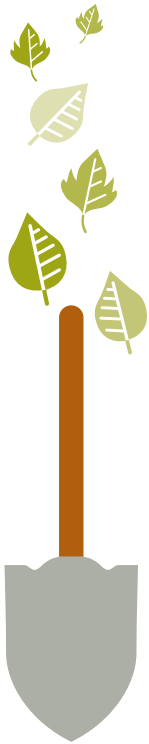
The advances are based on substantial scientific progress in understanding the disease processes of ALS and basic research in biochemistry. The transgenic mice used in these studies have been engineered to carry the human gene for "copper chaperone for superoxide dismutase," or CCS gene. CCS inserts copper into superoxide dismutase, or SOD, and transgenic mice carrying these human genes die rapidly without treatment.

After years of research, scientists have developed an approach to treating ALS that's based on bringing copper into specific cells in the spinal cord and mitochondria weakened by copper deficiency. Copper helps to stabilize SOD, an antioxidant protein whose proper function is essential to life. But when it lacks its metal co-factors, SOD can "unfold" and become toxic, leading to the death of motor neurons.

The treatment is unlikely to allow significant recovery from neuronal loss already caused by ALS, the scientists said, but could slow further disease progression when started after diagnosis.

This work has been supported by the Department of Defense Congressionally Directed Medical Research Program, the U.S. National Institutes of Health, the Amyotrophic Lateral Sclerosis Association, the Australian National Health and Medical Research Association and gifts by Michael Camillo and Burgess and Elizabeth Jamieson to the Linus Pauling Institute. 🍌

OSU offers free, massive online course in sustainable landscape design



Oregon State University is providing free access to the knowledge and tools needed to help combat climate change and other world issues in a massive open online course, or MOOC, on landscape design to be offered this spring.

The four-week course, Intro to Permaculture, is a public education project that will enable students worldwide to learn about and design self-sustaining landscapes and ecosystems in a highly interactive way.

The practical use of permaculture design techniques makes the course information easily applicable to a person's life, said instructor Andrew S. Millison.

"I've seen exponential growth in the field in recent years, and the reason is because it directly addresses many of the issues that are on people's minds, such as climate change, food security and the alleviation of poverty," Millison said.

"Permaculture offers solutions to these issues, and this course gives people a way to make a positive impact."

Using interactive web apps, satellite imagery from Google Maps and Millison's digital animation drawings as a guide, students will create their own design site through a series of intricate mapping exercises.

By the end of the four weeks, students will be able to articulate major design strategies for each climate.

In essence, the course aims to help people see the world like never before.

"Permaculture gives people a new lens with which to see the landscape," said Millison, who has 20 years of experience in the field.

"The high-production visual element we'll use in this class will really bring the activities to life in a way I've never seen before."

The development of the MOOC is a joint effort of Open Oregon State, OSU Professional and Continuing Education (PACE), Oregon State Ecampus and OSU Extension and Experiment Station Communications.

This is the second MOOC offered by Oregon State and first to be developed in-house. In 2014, the university partnered with Stanford University and the Oregon Department of Education to deliver a MOOC for K-12 educators that attracted more than 5,000 participants worldwide.

The class begins May 2. Registration is open and more information is available at open.oregonstate.edu/courses/permaculture.

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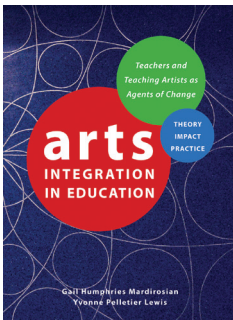


Noted publications by Beavers and friends

“IN PRINT” items were written by alumni, faculty and friends of OSU. More publications appear in the “Published” subsection of the “Of note” section, on page 56.



Flora of Oregon: Volume 1: Pteridophytes, Gymnosperms, and Monocots (Botanical Research Institute of Texas) edited by Linda Hardison, Stephen C. Meyers '05 '10, Thea Jaster and Katie E. Mitchell. A goal of the Oregon Flora Project is achieved in the first comprehensive assessment of the state's native and naturalized plants since 1961. In addition to descriptions of grasses, sedges, lilies, ferns and conifers, the volume includes a history of botanists in Oregon, color photos and descriptions of the state's 11 ecoregions and 50 mapped locations for exploring botanical sites.



Arts Integration in Education: Teachers and Teaching Artists as Agents of Change (University of Chicago Press) edited by Gail Humphries Mardirosian and Yvonne Pelletier Lewis '78. Presenting research from a range of settings from preschool to university, and featuring contributions from scholars and theorists, educational psychologists, teachers and teaching artists, the book offers a comprehensive exploration and varying perspectives on theory, impact and practices for arts-based training and arts-integrated instruction across the curriculum.



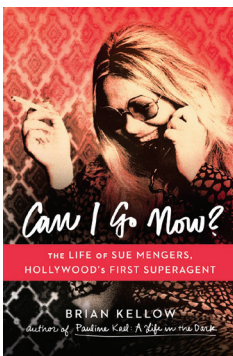
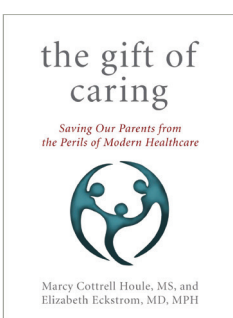
Air Pollutant Deposition and Its Effects on Natural Resources in New York State (Comstock Publishing Associates) by Timothy J. Sullivan '83. Sullivan provides a comprehensive synthesis of past, current and potential future conditions of New York's air, water and soil to help determine emissions reduction goals, evaluate incremental improvements, conduct cost/benefit analyses and prioritize research needs.



The Gift of Caring: Saving Our Parents from the Perils of Modern Healthcare (Taylor Trade Publishing) by Marcy Cottrell Houle '82 and Elizabeth Eckstrom, M.D. In a powerful blending of memoir and practical strategies from a medical doctor's perspective, this book reveals the hidden side of modern healthcare practices for aging Americans. This groundbreaking book sheds new light on aging by showing it from twin perspectives: the story of a daughter desperately seeking help for the parents she loves, and a geriatrician who offers life-changing strategies that can protect our loved ones and ourselves.



Can I Go Now? The Life of Sue Mengers, Hollywood's First Superagent (Viking) by Brian Kellow '82. A lively and colorful biography of Hollywood's first superagent — one of the most outrageous showbiz characters of the 1960s and 1970s — whose clients included Barbra Streisand, Ryan O'Neal, Faye Dunaway, Michael Caine and Candice Bergen.



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Fish hatcheries quickly changing genetics

A study on steelhead trout in Oregon offers genetic evidence that wild and hatchery fish are different at the DNA level, and that they can become different with surprising speed.

The research, published in *Nature Communications*, found that after one generation of hatchery culture, the offspring of wild fish and first-generation hatchery fish differed in the activity of more than 700 genes.

A single generation of adaptation to the hatchery resulted in observable changes at the DNA level that were passed on to offspring, scientists reported.

This research was conducted at Oregon State in collaboration with the Oregon Department of Fisheries and Wildlife. Scientists say the findings essentially close the case on whether or not wild and hatchery fish can be genetically different.

Differences in survival and reproductive success between hatchery and wild fish have long offered evidence of rapid adaptation to the hatchery environment. This new DNA evidence conclusively demonstrates that the genetic differences between hatchery and wild fish are large in scale and fully heritable.

“A fish hatchery is a very artificial environment that causes strong natural selection pressures,” said Michael Blouin, a professor of integrative biology in the OSU College of Science. “A concrete box with 50,000 other fish all crowded together and fed pellet food is clearly a lot different than an open stream.”

It’s not clear exactly what traits are being selected for, but the study was able to identify some genetic changes that may explain how the fish are responding to the novel environment in the hatchery.

“We observed that a large number of genes were involved in pathways related to wound healing, immunity and metabolism, and this is consistent with the idea that the earliest stages of domestication may involve adapting to highly crowded conditions,” said Mark Christie '10, lead author of the study.

Aside from crowding, which is common in the hatchery, injuries also happen more often and disease can be more prevalent.

The genetic changes are substantial and rapid, the study found. It’s literally a process of evolution at work, but in this case it does not take multiple generations or long periods of time.

“We expected hatcheries to have a genetic impact,” Blouin said. “However, the large amount of change we observed at the DNA level was really amazing. This was a surprising result.”



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College of Business opens office in Portland, will begin offering MBA in innovation



The OSU College of Business is launching a new MBA in innovation and has opened a Portland headquarters in the Pearl District.

The new space is at 220 N.W. Eighth Ave.

"It's an exciting time for us to grow in the Portland market," said Mitzi Montoya, Sara Hart Kimball Dean of OSU's College of Business.

OSU's hybrid MBA program, based in Portland, offers a mix of online and in-person work. The innovation MBA will focus on one of Portland's core values, entrepreneurial business growth, as it pertains to starting new businesses and advancing existing Oregon companies.

The MBA program in Portland also includes tracks in executive leadership and business analytics. Tracks in supply chain and logistics management and a certificate in financial planning will be offered beginning in the fall.

The flexible hybrid program format makes it accessible for the working professional. It involves working online about 80 percent of the time and gathering twice per 10-week term for team and faculty meetings, professional development, alumni networking and applied project work.

"OSU is an engine of innovation, and Portland is an exciting and growing innovation economy," Montoya said. "I am

excited about the tremendous potential of our work to grow Portland's capacity to innovate even further."

The College of Business' new Portland headquarters is in the WeWork building. WeWork is a national chain of shared office buildings and offers "co-working communities" that house multiple ventures, often startups. The businesses share office space, equipment and related amenities.

"WeWork's entrepreneurial environment and its mission, to support hard-working members who produce results, aligns with the culture of the College of Business, our alumni and our programs," Montoya said.

In addition to the new WeWork space, the College of Business will continue to offer courses at the Collaborative Life Sciences Building in Portland's South Waterfront district and expand its collaboration with OSU's Food Innovation Center in Northwest Portland. 🍌

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Mr. Larios! Mr. Larios!

An educational migration from uncertainty to acclaim

By Kevin Miller | Photos by Hannah O'Leary



On a chilly January morning, in the hour or so before classes start at Salem's Waldo Middle School, children arrive on foot or on bikes in twos and threes from the surrounding neighborhood. Parents headed for work drop off their kids in the pre-dawn darkness.

The students scurry in and grab prime sitting or standing spots in the warm, well-lit main hallway, where they wait for

school to start. Many of them have arrived hungry and they head to the cafeteria for breakfast.

Nearly 60 years old, the single-story, sprawling building in a lower- and middle-income, heavily Hispanic/Latino area of Oregon's capital city is named for pioneer Daniel Waldo, father-in-law of Clara Humason Waldo '23(H), for whom Oregon State's Waldo Hall is named.

But these days that's far from the middle school's most famous connection to OSU.

As students chat and study and wait for the start of the school day, attendance clerks and other support staff are already at work in the main office, where an oversized facsimile of a check for \$25,000 is taped across some desks. It's there to make sure no one forgets that not only is this the home of the Waldo Mustangs, it is the professional home of teacher Ricardo Larios, named in January by the Milk-en Foundation as Oregon's outstanding educator.

A 2005 OSU graduate in ethnic studies, Larios is the son of migrant farmworkers. He was the first member of his family born in the U.S. and the first to go to any kind of college when he started at Salem's Chemeketa Community College. The Milk-en Educator Awards, more than 2,600 of which have been given across the nation since 1987, are presented in suspenseful, well-orchestrated assemblies that often draw TV news crews. Larios was this year's only winner among Oregon's 28,000 public school teachers, and video from the presentation makes it clear that he was stunned. Afterward, via iPhone, he had trouble convincing his wife Mayra of what had just happened.

"Honey," he says in a video clip, "I won \$25,000!" (There's a pause as he listens.) "No, I'm not kidding. There's a bunch of people here. Channel 2 ... I think I'm going to be on TV!"

A supremely confident teacher with a profoundly humble soul, Ricardo Larios says his decision to be an educator took its time to crystallize. Partly because of work he did at OSU with mentors like philosophy and ethnic studies professor Joseph Orosco, he has come to understand that his decision to seek an education and redefine himself had its roots in

his parents' difficult but hopeful migration from Mexico to start a better life, at first by picking fruit in the orchards around Toppenish, Wash., which is where Ricardo was born, before they eventually settled in the Salem area.

"I did not take school seriously when I was young," he says. "There were some lost years. I knew more about what I didn't want than what I wanted. When I started to go to college, I didn't know exactly what I was doing or where I was going, but like my parents when they left Mexico, I knew I wanted something better.

"By the time I came to Oregon State, it was like, 'I just gotta get there. Then I'll work it out.' It was like this was my migration." Slowly, as he studied and did some work with bilingual programs in public schools, he learned that he liked teaching and seemed to be good at it. He earned a master's in education in 2007 from Willamette University in Salem. While there he did his student teaching at Waldo and then, as he puts it, "I just didn't leave."

While the Milken award brought Larios more than the accustomed 15 minutes of fame — the cash will help Mayra spend more time at home with their 4-year-old son Ricardo, who goes by "ChiCho" — it brought him no break at all from the realities of life as a middle school teacher.

On this day, exactly three weeks after that surprise assembly, the first bell of the morning approaches and about 1,000 sixth-through-eighth-graders — living proof that young people can simultaneously be eagerly cheerful and grumpily bleary-eyed — cluster at the entrances to the school's academic hallways. Larios



and other teachers hold them back with good-natured banter and sometimes a friendly nudge. Many of the teachers, Larios included, clutch large cups of coffee as if it's their life force.

Lining the hallways, high on the walls just below the ceiling, are hundreds of wallet-sized photos of sixth-graders wearing sheepish grins and baggy, dark green graduation gowns. Principal Tricia Nelson, a 1986 Oregon State graduate in elementary education, explains that the gowns are what the students will wear in seven years when they graduate from

Larios often drops to a student's eye level to make sure his point is clear.

McKay, the area's high school. Pretty much everything Waldo does as a school, she says, including the AVID (Advancement Via Individual Determination) college preparatory program led by Larios, is aimed at getting this mostly minority student body from homes of limited financial resources to see themselves as future high school graduates and college material. Students are taught to employ



"As a teacher you hope your students will go on and do great things. It's a profession of hope, in a lot of ways."

Joseph Orosco, OSU philosophy and ethnic studies professor, mentor to Ricardo Larios

academic language when speaking in class, to take notes that would be the envy of many college students and to use complete sentences in their academic speech and writing.

In addition to leading the AVID program, Larios teaches social studies and helps with other efforts to get students to think about their futures and understand what they need to do to reach their goals. He has a program to encourage students to become teachers and he started a summer academy to help students transition from middle school to high school.

Nelson, in her sixth year at the school, notes that she tried to hire Larios away from Waldo more than once when she was principal of another Salem middle school, but she couldn't get him to leave the students at the school. Now she knows why.

"He is always positive," she says. "Even when he has to deliver bad news, he does it in a way that leaves possibilities. And when they do something well, he overpraises it. Children will do what you teach them to do. They will rise to higher expectations if you set them."

It didn't surprise her a bit that she detected no jealousy among his colleagues when the money and attention of the Milken award came his way.

"Every Wednesday he gives an award to one of the staff for something he's seen or heard about that they've done. It's just a sticky note on an old trophy, but he makes a big deal of it and it means a lot to people."

Back in the hallway, students and teachers alike are tired of waiting. The bell sounds and the mass of young adolescents surges forward, released to their lockers and classrooms. Teachers hold their coffees and clipboards up and out of the way as they move with the flow of students as if they're wading chest-deep in a river.

Larios makes his way toward his own room, continuously interrupted by "Mr. Larios! Mr. Larios!" as students seek his attention and he grants it with rapid-fire, focused questions and compliments.

Success is quickly celebrated as the constantly moving teacher keeps his students on task.





“New shirt?” he asks a boy. “I like it!” A girl, jostled by her schoolmates as the herd of middle schoolers moves down the hall, struggles to hold her open notebook up to him. AVID students learn the importance of staying organized, so binders are a big deal. Larios reaches over another student to flip through the proffered notebook, then nods his approval.

“Look at this new binder! Did you organize this? To do it like this you need to be a hard worker.” The girl beams. He wishes another student good luck in the day’s wrestling meet, reminds another that he has a quiz in the afternoon, asks another if she’s feeling better after being home with an illness. He has at least six more interactions with students during the 60-foot walk to his classroom.

Later, sitting on a bench near the office during a short break, he’s asked how he finds the energy to genuinely notice and respond to so many children. He starts to answer, then sees a boy on a hall pass walking with a strange gait, staying mostly on his heels.

“Why are you walking like that?” Larios asks. The boy seems a little embarrassed.

“Oh, I get it,” Larios quickly adds. “New shoes, huh?”

“Yes.”

“Those are really nice,” Larios says, and the boy nods and smiles, continuing his careful walk to the bathroom as Larios

explains: “You see, when some of the kids get new shoes, for a while they try to walk like that, without bending the front, so they don’t get any creases and they stay looking new.

“People need to be noticed. It’s a bad thing to be a kid and go a whole day without someone noticing you.”

Back in the classroom at the start of the day, it’s much more quiet and orderly as the students settle in, but the pace of Larios’ teaching never lets up. Another bell rings to mark the start of class, and there are school-wide announcements from the overhead speakers.

Next come updates and reminders from Larios.

“You’re going to take a test today,” he says, and pauses so they can respond with a predictable, exaggerated moan.

“Ohhhh,” he says, his face contorted in mock, agonized sympathy. “You’ll be OK. It’s just a quiz. It’s easy.”

He immediately starts them in group discussions of a story they’ve been studying about polar explorers who must work together to survive because one is snow-blind and the other’s hands are useless because of frostbite. In previous sessions the students have role-played as the stricken men.

“How did it feel to only be able to use your words to get stuff done?” Larios asks. “What did you do that worked?”

Larios and Principal Tricia Nelson ’86 make a plan to solve a minor problem that’s come up.

What could you have done better?”

Slowly at first — it is the first class of the morning, after all — they focus on his questions as he circulates from group to group, sitting on their desks, kneeling beside them, encouraging, cajoling, sometimes pausing for a room-wide prompt.

“What happens when you don’t have all of your abilities and you have to get a job done?” Silence. “C’mon, we don’t have a lot of time.”

“It’s stressful,” says one student.

“Yes! It is,” Larios responds as he keeps moving. “So what do you have to do? Give me more!” A boy leans back from his chair and quietly tells the teacher what he thinks the answer is.

“Yes!” Larios shouts, raising his hands as if signaling a touchdown. “Ding, ding, ding! Jose knows the answer.” Then, conspiratorially, to Jose: “Don’t tell them, though. Not yet.”

A few minutes later, assured that most of the groups are getting the point, he recaps, and as he does so he demonstrates his ability to seamlessly and simultaneously teach and manage potentially disruptive behavior:

“Hopefully what you’ve learned about cooperative tasks — stop making those

noises — is that you have to rely on others when you don't have all your skills available."

He tells each group to collaborate on an informational poster with at least eight tips on how best to work together.

"I want your posters to be informative and colorful," he says, then smiles. "And I want them to be cute!"

One boy repeatedly drifts away from his group, visiting friends at nearby desks. Larios motions him to sit down, then tells him, with a bit of a bite in his voice: "I have one free tip for you to use on how to work successfully in a group: Stay on task! OK? Can you just get to work?"

Most of Waldo's students are bilingual, and Larios issues some of his firmer corrections in quick bursts of Spanish.

"There are just some things that I can say to them in Spanish in ways that reach them better," he says later. "I can tell one of them to shut up in Spanish and just because of the way the language works, it isn't as harsh as it would be in English."

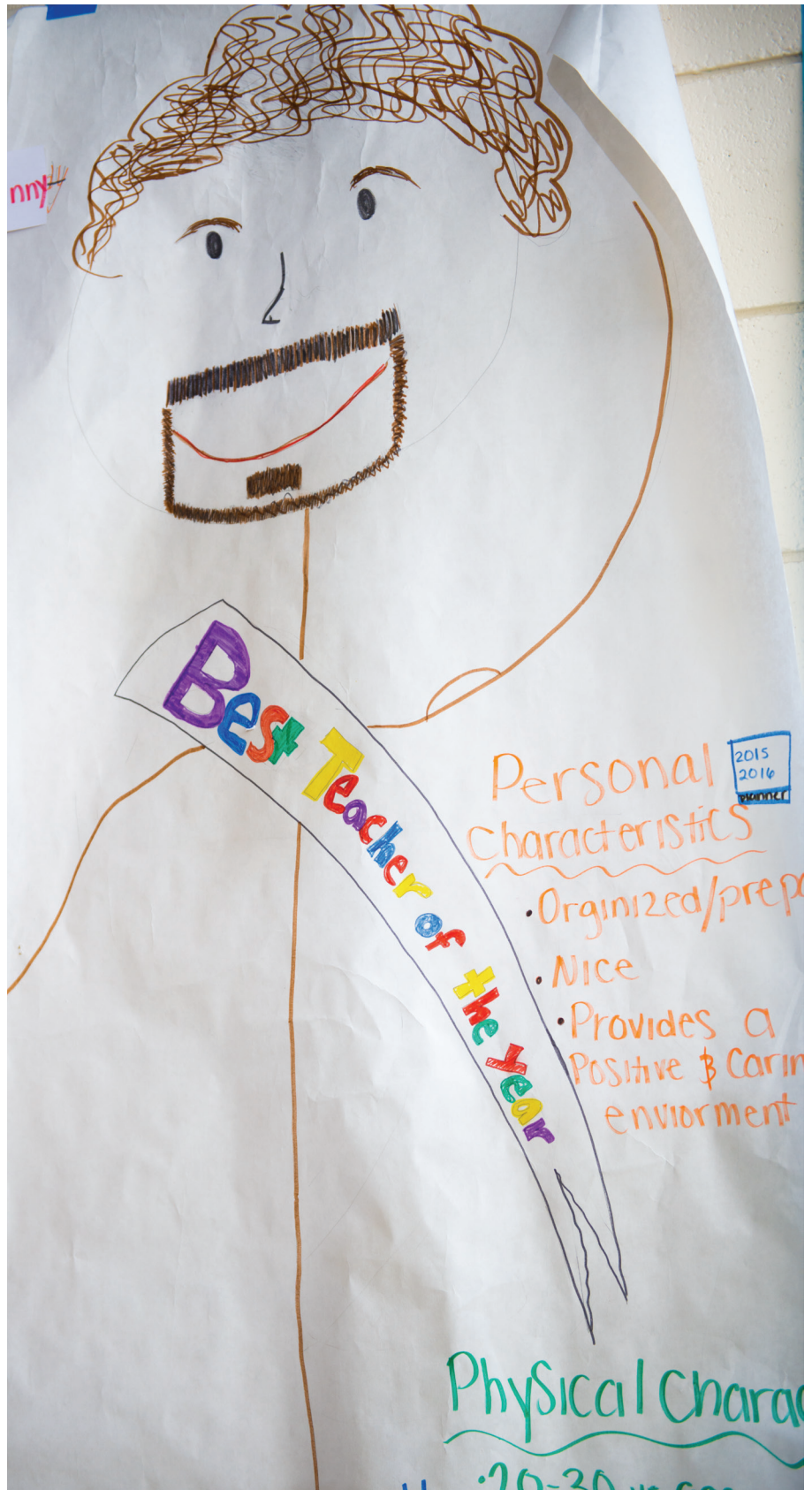
Orosco, one of the OSU professors Larios credits with helping him find his way, got to know Larios while leading OSU students on a trip to Mexico. It was Larios' first visit to his parents' original homeland, and both Orosco and Larios recall that the better he understood where his family story had begun, the more confident he became about where he might fit in back home in the U.S.

"He's always been very good about noticing things," Orosco says. "Ricardo has certainly accomplished a great deal. As a teacher you hope your students will go on and do great things.

"It's a profession of hope, in a lot of ways." 🍌

See a video of Larios receiving the Milken award in front of cheering students and colleagues at: bit.ly/ricardowins.

A drawing in his classroom provides insight into why his students and colleagues see Larios as a winner.



No time wasted

OSU teaches entrepreneurs how to take their ideas to the marketplace

By Steve Lundeberg '85



PIONEER SOURCING

CYAN COOPER '08



THE SHOW

XIUYU XUE '15

Cyan Cooper traveled to China to start his own company, a footwear and apparel purchasing agency called Pioneer Sourcing. Xiuyu Xue charted almost the opposite course, leaving China for Oregon, where he now owns a Corvallis restaurant, The Show.

Their common threads: A business degree, and entrepreneurship pedigree, from OSU. Cooper '08 and Xue '15 are just two illustrations of what the College of Business intends to become a growing trend: students turning their startup dreams into reality soon after earning their degrees, or before they graduate.

"Entrepreneurship and innovation can and should coexist with formal education," said Mitzi Montoya, Sara Hart Kimball Dean of the college. "We're working hard to build a culture of big ideas and leadership — where our students take what they learn in class and use their creativity and critical-thinking skills to drive change."

That culture will soon include a Launch Corps — cohorts of MBA students who come to OSU to work on their degree in Innovation Management while launching



Photo by Hannah O'Leary

startups. The aim: Job creation in Oregon and spurring entrepreneurial engagement among traditionally underrepresented groups in entrepreneurship — especially women and racial and ethnic minorities. Launch Corps students will have access to scholarships, investors and Oregon State alumni who will act as mentors and advisors.

Entrepreneurship has long been part of the OSU fabric — think A-dec, the dental equipment company founded by Ken Austin '53, or E-Trade, started by Bernie Newcomb '65. And it's taken on an even larger role over the last dozen years following the reopening of Weatherford Hall as an innovation-focused living/learning center. Weatherford houses 400 students bound by a common interest in turning ideas into marketable products and also doubles as the headquarters for the 2004-founded Austin Entrepreneurship Program.

Starting in fall 2016, the College of Business will add a reconfigured Poling Hall as

a second living/learning community. The programs in Poling and Weatherford will share the name Innovation Nation and serve as the home for the college's first-year pre-business students.

The goal for Innovation Nation is to smoothly integrate new students into the college and university while also stoking their ideas and aspirations to innovate and lead in business through access to creative spaces, social interactions with established business leaders and alumni, expanded business plan competitions and investment opportunities.

"We want to help students learn the process for evaluating business ideas," said Karl Mundorff '84, co-director of OSU's business incubator, the Advantage Accelerator, a university-level initiative co-sponsored by the College of Business and College of Engineering. "Maybe the idea they have right now turns out not to be one they want to try to take to market, but we want to help move them along that journey, to a place where they are

STEADYBUDGET

DOMINIC ALBANO

CHRIS VLESSIS

DAVID TEOFILOVIC

KATHLEEN BELTRAMINI '15

iterating and launching their ideas."

Among the competition opportunities is an annual Civil War Shark Tank with the University of Oregon. The Austin Entrepreneurship Program hosted the 2015 edition of the event in April, and one of the competitors was SteadyBudget. Counting two Beavers among its founders and a third on its core team, the Bend-based company provides a software budgetary solution for pay-per-click advertising analysts.

"Oregon State, and the College of Business' Austin Entrepreneurship Program in particular, is very entrepreneurial in spirit," said 21-year-old co-founder and chief technical officer Chris Vlessis, who plans to return to OSU this spring



Photo by David Paul Bayles

BOSKY OPTICS

MATTHEW MINER '15

ALEX CRUFT '14

to resume his computer science studies. "There's always something unconventional and fun baked into the learning process. This coupling of unconventional and experiential learning allowed me to feel comfortable thinking outside the box while simultaneously providing me with an education that is applicable directly to the world around me — both key components of entrepreneurship."

So strong is OSU's startup culture that for all of SteadyBudget's magic, it was the runner-up to another Beaver entry in the Civil War Shark Tank. Winning the top prize — \$1,000 and entry into last spring's Willamette Angel Conference — was Fused Machines, a company founded by mechanical engineering student Nathan Fuller, physics and math major Andy Baldwin and business graduate Michael Williams '16. The company, which like SteadyBudget began in the Austin Entrepreneurship Program, builds a 3-D printer called the Orsus that integrates a computer numerical control (CNC) machine — the first device on the market with simultaneous printing and CNC capabilities. Fused Machines has picked up \$25,000 in additional grant funding and has begun initial sales.



Photo by Hannah O'Leary

FUSED MACHINES

NATHAN FULLER

ANDY BALDWIN

While many companies founded by Oregon State students and young alumni are highly technical in nature — that list includes Accelerator graduate Bosky Optics, a maker of wood-framed sunglasses founded by Alex Cruft '14 and Matthew Miner '15 — others meet different market needs.

Cooper's China-based company, Pioneer Sourcing, offers a variety of services to shoe and apparel companies wanting to manufacture abroad, including freight management, quality control and contract negotiation.

"I had always wanted to start my own company and recognized this as a unique opportunity to do exactly that," said Cooper, who minored in Chinese at OSU.

Back on the other side of the Pacific, Xue's diner The Show caters to the tastes of OSU's 1,500 Chinese students, looking for authentic, quickly prepared food from their homeland.

"Classes helped me get enough knowledge to start the business," the finance graduate said, "and the College of Business gave me the skills to find answers to questions I don't know the answer to." 🍗

Steve Lundeborg is a communications specialist for the OSU College of Business.

OSU Ecampus can make dreams come true in computer science

By Heather Turner

Some people know exactly what their future holds, while others are happy to fly by the seat of their pants. And then there are those who pick up a magazine and start reading a “top 50 jobs in the U.S.” article and think, “Now that’s what I want to do.”

That’s precisely how Justin Ihara discovered his dream job.

After earning a degree in mathematics in 2009 from Oregon State, Ihara decided to go in a slightly different direction — computer science.

“Everything is heading in the digital direction, so I am right in the middle of what is new and interesting,” he said.

After gaining inspiration from the magazine article, Ihara enrolled in the online post-baccalaureate computer science program offered by OSU’s School of Electrical Engineering and Computer Science (EECS). The program is delivered entirely online by Oregon State Ecampus, a leader in distance education ranked in the top 10 nationally by *U.S. News & World Report* two years in a row.

“The program gave me the basic building blocks I needed to thrive in the industry,” said Ihara, now an engineer for Micro Systems Engineering, Inc. (MSEI).

As a student, Ihara attended the EECS biannual Computer Science Career Showcase in Portland, an event that brings together dozens of Ecampus students and alumni from across the world, to meet with potential employers from companies such as Garmin, Google, IBM, Intel, Puppet Labs and Kaiser Permanente.

A 2013 graduate of the program, Ihara met his employer — a company based out of Lake Oswego that develops software and manufactures printed circuit boards for implantable medical devices — at the career showcase. Following graduation, he began working at MSEI as an intern and quickly moved up to a full-time position.

“I get to do a lot of different things that have an effect on the physical world,” he said. “It’s nice to have variety and see your work come to fruition in the physical world.”

In December, Ihara was invited back to the showcase as an industry expert. The showcase features panel discussions, a networking luncheon and one-on-one interviews with employers.

Ihara is one example of success stemming from the program. More recently, Ecampus computer science alumna Renee McLain ’15 landed a job at Intel.

“My goal, my dream is to work at Intel,” she said. “What an exciting place to be. The changes you can make, the things you can discover and the dreams that come true at Intel are exciting.”



Justin Ihara discusses his job, programming computers that control various machines, such as cutting lasers. (Photo by Hannah O’Leary)

Since its inception in June 2012, the Ecampus computer science program has doubled the number of OSU’s computer science graduates per year, sending 300 alumni into the workforce.

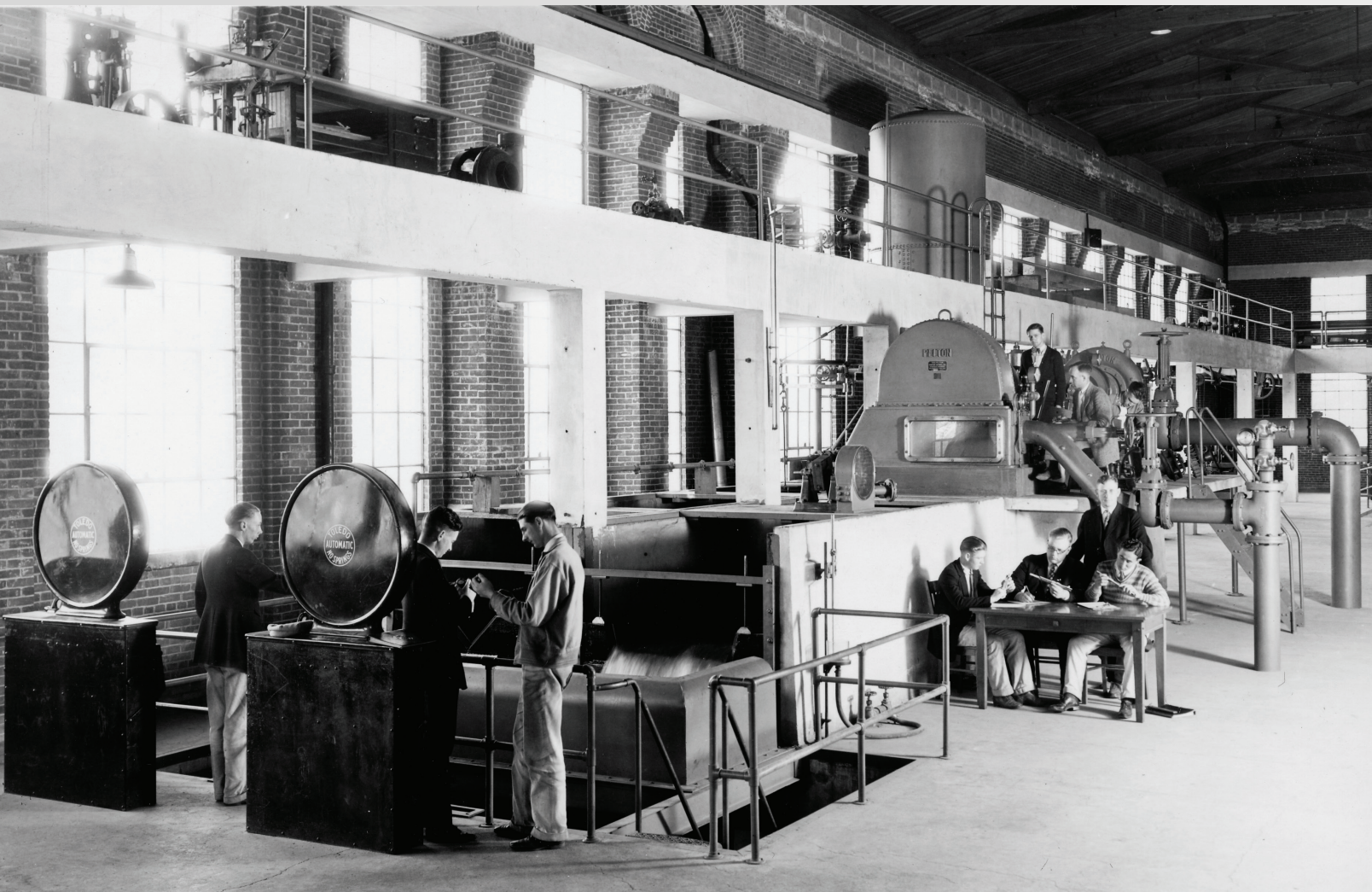
The program’s students are located in all 50 states and nearly 20 countries, and their educational backgrounds run the gamut, from health care and accounting to sociology and construction management. Employers say the array of undergraduate degrees gives OSU students the upper hand when they hit the job market.

“We have noticed the quality of students to be quite high, with noticeable professional maturity from previous work experience as well as interesting balance from previous degrees,” said Jason Bushnell, a human resources manager for Garmin. 🍌

Heather Turner is marketing communications manager for OSU Ecampus.

Three of every 10 Beavers is an **ENGINEER**

By Ann Kinkley



Slide rules at the ready, Oregon Agricultural College engineers work on materials problems in Graf Hall in 1925. Such work still goes on in the venerable old structure along Monroe Street, but the slide rules are nowhere to be found. (Photo courtesy OSU Special Collections – HC899)

Of the 29,576 Oregon State students tallied in this year's official enrollment summary, 8,265 — just about 3 of every 10 — are engineering majors.

By comparison, the next biggest group, liberal arts, has 3,905 majors.

Engineering's massive impact at OSU is even more evident in the current course catalog, in which "engineering" is used to describe studies in five colleges, 15 departments, 65 official majors, 38 minors, 44 options and more than 300 courses. Forest, biomedical, naval, environmental, chemical, nuclear, food and geotechnical engineering are just a few of the topics covered. Can the day when English majors are called "sentence construction engineers" be far away?

Before we take a look at the history of engineering on campus, it's probably a good idea to define our key term. Our earliest human ancestors demonstrated what would now be called engineering skills as they devised the wheel, pulley and lever, among other time-and-effort-saving devices. Ancient engineers applied principles of math and science to design pyramids in Egypt, Roman aqueducts, ancient Mayan cities, China's Great Wall, horseless buggies, airplanes and telephones. Military leaders relied on engineering-minded citizens to devise weapons and build defenses against them.

The *Oxford Dictionary* states that "engineer" derives from the Latin words *ingeniare* (to contrive, devise) and *ingenium* (cleverness or genius). Even today, we use the term to describe people across many disciplines who meet this standard, be they skillful designers of political campaigns or inventors of new, life-saving medical technologies.

OSU has a long, proud history of training engineers to be problem solvers. In creating land grant colleges, the Morrill Act of 1862 specified that all states receiving land grant funds "provide Colleges for the Benefit of Agriculture and the Mechanic Arts." The specific study of engineering on the Corvallis campus began in the early 1880s, when math professors incorporated engineering concepts as a part of their coursework. It appears that the first class on campus devoted entirely to engineering was offered in the 1884 catalog, featuring instruction in surveying as a "practical demonstration of trigonometry."

The Department of Mechanical Engineering, led by Professor Grant A. Covell, was established in 1889 and the first engineering building, Mechanical Hall, was constructed on the northern edge of campus. The small wooden structure was soon gutted by fire and was replaced with a granite and sandstone structure that still stands — substantially modified over the years — on the southwest corner of 14th and Monroe streets. It was named after John T. Apperson in 1920 when a third floor was added and then, in 2009, renamed Kearney Hall after an extensive remodeling project funded in part by Connie and Lee Kearney '63.

Today the College of Engineering lists 11 buildings on its rolls, with the 12th, named for Rosalie and Peter Johnson '55, expected to open in October.

During the first decades of the 20th century, the evolving disciplines of electrical, mining and civil engineering grew rapidly in importance and enrollment at the college. Newer trends moved engineering into the Atomic Age as a nuclear reactor was built on campus, facilitating research projects well into the 21st century, and into the age of computers and the Internet.

Twelve students enrolled in the new engineering department in 1889, when overall campus enrollment was 85. From the beginning, all men at land grant schools had been required to train in military units and often were drafted into service, and World War I saw the establishment of the Student Army Training Corps. Students took military education courses and studied combat-related engineering subjects such as handling and using explosives. Enrollment in the engineering department jumped from 319 to 1,405 students.

Problems encountered while trying to move troops and equipment in Europe during the war pointed to the need to improve transportation infrastructure back home, so in 1917 C.B. McCullough was appointed head of the structural engineering program at the college — mainly to teach new engineers how to build bridges. Within three years the state had hired him to design and build a string of bridges spanning rivers between communities up and down the Oregon coast and over more than 600 rivers throughout the state. He hired many of his former students to continue this work over the next 20 years.

During World War II, in March 1943, a new Army Specialized Training Program to create more military engineers was assigned to Oregon State, and, through 1945, young engineers from many other institutions trained for military engineering on the Corvallis campus. More than 2,400 were trained in some technical courses before shipping out; 1,300 received certification of completion.

The first woman to receive an engineering degree at Oregon State was Helen Stedman Brooks, who received a chemical engineering degree in 1923. By 1950, there had still been only 13 women engineering graduates. Today, 19 percent of students in the College of Engineering are women.

Among the most noteworthy of OSU engineering grads are the late Douglas Engelbart '48 '94(H) (electrical and electronics engineering), who invented the computer mouse, and International Space Station astronaut Donald Pettit '78 (chemical engineering).

In a world where there is no shortage of problems to be solved and technical challenges to be met, it seems certain that the number of OSU engineers in training and the number of OSU engineers at work in the world will continue to grow. 🍌

Ann Kinkley is the Oregon Stater's associate editor for alumni news, history and traditions.

FORECAST FOR AFRICA

Weather stations serve schools, farmers and fishermen

BY NICK HOUTMAN

In the summer of 2012, Zachary Dunn climbed onto the roof of a red-brick schoolhouse in Lela, a small village in southwestern Kenya. A crowd of children milled about on the ground, watching him attach a small weather station to the peak. It was the rainy season, overcast and cool enough for a long-sleeved shirt. Plots of maize, cassava and sweet potatoes near the school promised a good harvest.

Thinking it to be a teachable moment, the Oregon State University engineering student stopped what he was doing and looked at one of the kids below. “Do you know what this is?” he asked, holding the arm of one of the instruments. “Yeah,” said the boy. “That’s an anemometer.”

“I was blown away,” Dunn said later. “I thought, ‘Whoa, how did he know that?’ He was about 10 years old. OK, I realized you need to check your assumptions at the door.”

As a member of Oregon State’s Engineers Without Borders chapter, the native of Albany had come to Lela to improve the community’s access to clean drinking water. The OSU students had helped the residents drill a new well and build a rainwater collection system.

The weather station was key to the project’s success. Linked to the cellphone network, it would enable the engineers to keep tabs on conditions in Lela — solar radiation, rain, wind, relative humidity and temperature. Additional sensors in a water storage tank would tell them how much water was available for later use. If a pipe became clogged or a valve sprang a leak, they could detect the problem and arrange a fix.

“It occurred to me that this was a way to make sure that these development projects are sustainable,” says Dunn, who pursued the idea for his OSU master’s thesis in public

policy in 2015. “If you have these sensors that you can use to monitor a project, you can make sure it’s still working years after it was installed.”

For Dunn, the project in Lela planted a seed that has grown into his dream job. After receiving his bachelor’s in engineering in 2012, he returned to Kenya to pursue his master’s project with financial support from a Boren Fellowship. But before he moved into an apartment in Nairobi, he signed on as the East Africa field director of a new nonprofit organization, the Trans-African HydroMeteorological Observatory (TAHMO).

Two professors — Oregon State hydrologist John Selker and Nick van de Giesen at the Delft University of Technology in the Netherlands — started TAHMO in 2010 with a grand vision: Transform Africa from being the world’s most poorly monitored continent for weather to being the best. They plan to install 20,000 solar-powered weather stations across sub-Saharan Africa in a network that will give badly needed information to farmers, fishermen, businesses, educators and water management agencies.

Using new low-power technologies and accessible on Africa’s ubiquitous cellphone network, real-time weather data enable public safety officials to move people out of harm’s way before a flood. Data could enable crop insurance companies to make policies more accessible to farmers, thus setting the stage for increases in food production.

“It was kind of a pipe dream,” Selker says, “but think of this: The sensor in a wristwatch that measures barometric pressure is more accurate than the best barometric sensor available 50 years ago for any amount of money. And it runs on a watch battery for 10 years for \$2.”



terra

Oregon State University · Spring 2016

Around the world — in engineering, the environment, health care, business and government — Oregon State alumni lead partnerships to solve problems. See their stories at oregonstate.edu/terra.



To have a broad reach, TAHMO would need to serve rural farming communities like Lela, where Zachary Dunn had worked. To enable weather-monitoring efforts to go forward with the government's approval, Dunn and the Kenya Meteorological Department developed an agreement that became a model for TAHMO's work in other countries.

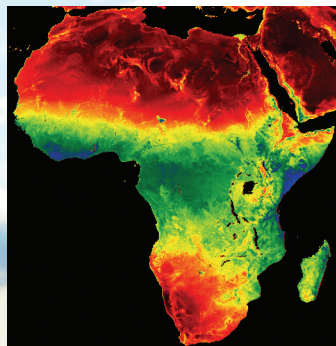
TAHMO researchers at Oregon State and Delft include experts from Africa (Senegal, Eritrea, Nigeria, Ghana and Kenya) as well as the United States and the Netherlands. In the past year, TAHMO hired Gilbert Mwangi, a graduate student at Jomo Kenyatta University in Kenya who won a sensor design competition in 2013. He has installed more than two-dozen stations in Kenya, Uganda and Tanzania, mostly at schools where students can also access the data for educational purposes. Facilities have been located in the Democratic Republic of the Congo, Nigeria, Ghana and other countries.

Last fall, TAHMO received \$1 million from the Global Resilience Partnership (sponsored by the Rockefeller Foundation, USAID and Sida, a Swedish development agency), to develop an early warning system to detect thunderstorms around Lake Victoria in collaboration with Earth Networks, an environmental monitoring company.

"When we're done, monitoring the African climate will be an order of magnitude better than any other place in the world," says Selker. "That's our goal. There's no other place in the world that has consistent instrumentation like this. There's no other place that has uniform and dense spacing.

"Africa is going to be the most important continent for food production," he adds. "That's where the big potential is. One-third of the continent is primed to grow whatever crop you'd like to. This is a resource unequaled in the world. This will make Africa a leader in the coming century."

See more at oregonstate.edu/Terra, and stay up-to-date on TAHMO's progress at tahmo.org.



Left, Africa's rain belt shows up as a green swatch in this Meteosat-derived map of evapotranspiration. (Photo courtesy: EARS Earth Environment Monitoring Ltd, Delft, Netherlands). Right, Oregon State graduate Zachary Dunn, the East Africa field director for TAHMO, adjusts a weather station. (Photo courtesy Zachary Dunn)

At — the — Apex

THE RETURN OF WOLVES TO OREGON SPARKS OLD CONFLICTS AND PROMPTS NEW SCIENCE ABOUT TOP PREDATORS

BY LEE SHERMAN GELLATLY | PHOTO BY JIM YUSKAVITCH

Beth Orning walks along the rim of a steep ravine, the brittle, rime-crusting grasses crunching under her boots. A chill mist shrouds the surrounding hills, where autumn-yellow larches pierce the deep-green stands of ponderosa pine like golden spears.

From a holster on the Oregon State graduate student's belt glints a blood-red canister of Counter Assault Bear Deterrent. The pepper spray is standard field gear, just in case she blunders into an aggressive black bear. She stands still for a moment, her gloved hand holding up an aluminum pole fitted with horizontal crossbars. Resembling a '50s-era TV antenna, the instrument is in fact a very-high-frequency (VHF) radio receiver. She's picking up a signal. A cougar, silent and unseen in the thick understory, is emitting a beacon from its tracking collar, placed by researchers two years before.

Today's mission, finding and collaring kittens in a litter born in this hidden ravine four or five weeks ago, will add significant new data to a study of cougar-wolf coexistence in the Mount Emily Wildlife Management Unit. One of Oregon's densest cougar populations prowls the unit's forested slopes. Now the cats have competition. Three wolf packs — the Mount Emily, Meacham and Umatilla River packs — have taken up residence here in the past few years. Because these powerful meat-eaters command the very top of nature's food web, biologists call them "apex predators."

Orning and her team want to know how the interspecies members of the area's "carnivore guild" compete with each other from atop their shared pinnacle for territory and for food, especially "ungulates" — hooved animals such as mule deer and elk — some of whose numbers have been dropping steeply in this corner of the state.



Beth Orning adds a radio collar to a 5-week-old cougar kitten.

"Estimating accurate predation rates and determining prey selection for wolves and cougars is critical to understanding the role that both of these top predators play in ungulate population dynamics," says Katie Dugger, assistant unit leader for the Oregon Cooperative Fish and Wildlife Research Unit and lead scientist on the wolf-cougar study. "We want to know how expanding wolf populations affect cougar populations, and how predation risk for elk and mule deer populations may be affected by the return of a second top predator to northeast Oregon."

Broadly, such research will help inform wildlife policy and management decisions as wolf numbers grow in Oregon. Since lone wolf OR7 made headlines with his journey across Oregon into California five years ago, wolves have gotten a fast foothold — so fast, in fact, that the target numbers for delisting under the Oregon Wolf Plan were reached several years sooner than expected.

For the next three years, Orning will continue to capture, collar and monitor cougars and wolves. She'll comb through carcasses at hundreds of kill sites. "We predict that the arrival of wolves is altering cougars' prey selection and use of habitat," she recently told a gathering of about 50 scientists and community college students at the Pacific Northwest Research Station Forestry and Range Sciences Lab in La Grande. "Our ultimate goal is to figure out how these behavior changes affect elk and deer."



Grass-Fed Restoration

Ranchers and wildlife share a home on the range

BY PEG HERRING | PHOTO BY SUSAN DOVERSPIKE

Brett Starbuck trails cattle from the west summer range to the mountain ranch for fall rake-bunched hay. “It’s several miles for the cattle to walk, but the food is good when they get there,” says Harney County rancher Susan Doverspike ’77 ’82.

If you visit Eastern Oregon only to drive through it, you might not notice much beyond a vast sagebrush sea. But gradual shifts from bunchgrass to annual grass, and from sagebrush to juniper, have had a huge, negative impact on the people and wildlife who live here. This iconic western landscape that once covered 150 million acres has shrunk by half and faces threats from wildfire, invasive weeds, oil and gas development and subdivision.

For decades, ranching in the arid West was attacked by anti-grazing activists, who cited examples of trampled streams and overgrazed land. In 1986, writer Edward Abbey described the western range as “cowburnt.” Many things have changed since then, including livestock grazing and the way people on both sides of the fence have learned to work together. The name-calling has been replaced by conversations about wildlife habitat, ecological health and quality of life. Increasingly, environmentalists are looking to ranchers to help save the sagebrush sea.

“It’s a big region, and some of the most extensive research and most innovative collaborations are coming from right here, in Eastern Oregon,” says David Bohnert, an OSU animal scientist and director of the Eastern Oregon Agricultural Research Center, a collaborative laboratory shared by Oregon State University and the U.S. Department of Agriculture’s Agricultural Research Service.

The current focus of some of that research and collaboration is, of course, the greater sage-grouse, a bird that is considered a key indicator of the health of the sagebrush

ecosystem. But restoring the grassland goes far beyond protecting one species. “Conservation benefits a lot of other wildlife, like mule deer and pronghorn, brush rabbits and songbirds,” Bohnert adds. “Our job is to understand the complexity of this ecosystem, and help people restore its function and structure.”

Bohnert and his team, including Tony Svejcar, the center’s research director, maintain the 16,000-acre Northern Great Basin Experimental Range and fenced study plots that have excluded grazing since the 1930s. They have studied the impact of fire (grazed plots turn out to be more resilient), the needs of native grasses and the habitat requirements of sage-grouse. They have worked with local ranchers to restore grasslands and stem the invasion of juniper, cheatgrass and medusahead.

“My grandfather came to this land from Ireland in 1907,” says John O’Keeffe ’80, president of the Oregon Cattlemen’s Association. “Through that time, we’ve watched juniper advance.” Over the last few years, he’s removed western juniper from 4,500 acres of his ranch, encouraging the return of native plant communities.

“It’s improved our ranching operation, better watershed function, better forage,” O’Keeffe says. “The work coming out of the Burns lab is helping us understand how to manage the land for ecosystem function. We’re leaving this land in a lot better shape than we found it.”



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Beaver baseball won its first national championship one decade ago.
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6 ways OSU ENGAGES in INNOVATIVE LEARNING

Changes in demographics and technology offer University Outreach and Engagement opportunities to creatively and effectively engage diverse communities.



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#1

Arts Engagement Inspires Innovative Partnerships

Students learn how art can work hand-in-hand with Oregon communities

Extension Reconsidered (ExtRe), an Outreach and Engagement initiative introduced at OSU in 2014, addresses community needs via the arts, humanities, design and humanitarian engineering. By working with new and traditional partners, ExtRe explores the ways in which the OSU Extension Service can evolve to best support the people of Oregon.

In fall 2015, the Art 406 course was offered for the first time. The course—a partnership between OSU Extension and the College of Liberal Arts—teaches both arts engagement methods and studio art techniques in a single class. The course is designed as a collaborative arts experience that engages and supports OSU arts students, Tillamook High School students and the Tillamook County Pioneer Museum.

The innovative course involved mentoring partnerships between the OSU and Tillamook students and culminated in a joint art exhibit curated by all the students at the Pioneer Museum. Coastal identities experienced as residents

Continues on back page ▶



OSU Ecampus ranks top 10 in the nation



For the second straight year, Oregon State University is ranked in the top 10 nationally for online education by U.S. News & World Report. Oregon State Ecampus, the university's online education unit, is ranked seventh out of nearly 300 higher education institutions in the category of Best Online Bachelor's Programs. Among land grant universities on the list, OSU is third.

Responding to a Changing World

Juntos makes higher education a family goal for hundreds of Latino families

Oregon high school graduation rates are among the lowest in the country. And on average, Latino students graduate at even lower rates. Language and cultural barriers and poverty—more than a third of Latinos 17 and younger live in poverty according to IPUMS–USA*—often disrupt a focus on education.

Responding to state and local priorities to boost graduation rates, OSU Open Campus launched Juntos in 2012. The program was originally developed at North Carolina State University.

Latino youth are particularly vulnerable to dropping out of school between 9th and 10th grade. Juntos reduces this risk by providing culturally relevant programming for 8–12th grade students and their parents. Working with Open Campus coordinators, local facilitators and volunteers, families build the knowledge, skills and resources to encourage high school completion and increase access to college.

By partnering with Oregon school districts and higher education providers, and with funding from the Ford Family Foundation and private donors, Open Campus is developing an evaluation system to track success and expanding to support more rural communities.

What began with a few families in Jefferson County has grown into a successful engagement program serving more than 1,000 individuals in eight counties and 14 school districts across Oregon. To date, Juntos has impressive results: 100% high school graduation rates and 100% post-secondary access.

* *Integrated Public Use Microdata Series–USA is a project dedicated to collecting and distributing US census data*

In September 2015, the **White House recognized OSU** for its efforts to provide underserved Hispanic students with educational opportunities. The Juntos program received one of the four **Bright Spot in Hispanic Education awards presented to OSU.**



Biology in 3-D

Online labs meet same learning outcomes as OSU's on-campus labs

After six months of research and development and a yearlong 3–D animation project, OSU last spring launched a series of three biology courses online that effectively puts a microscope in the hands of every distance student.

The academic breakthrough is the result of a partnership between Oregon State Ecampus—the university's online education unit—and the departments of Integrative Biology and Botany and Plant Pathology in the College of Science.

“We had to create an alternative that gives students the foundational experience of being in a lab where they can maneuver a microscope's settings and adjust the images just as they would in a face-to-face environment,” said Shannon Riggs, the Ecampus director of course development and training.

To create the virtual lab experience, Ecampus multimedia developers mounted a camera on top of an actual microscope and took pictures of what was on the slides. The photos are woven into 3–D animation, which allows students to adjust the lighting, zoom and manipulate the images as they would if they were in a Corvallis laboratory.

The classes, developed by Dr. Andrew Bouwma and Dr. Genevieve Weber, have reached enrollment capacity quickly each term.



Hybrid Learning Flips the Classroom

#4

Techniques increase effectiveness
& help learners save time and money

With a smile on his face, **Gilbert Uribe** (pictured below), education program assistant at Oregon State University's North Willamette Research and Extension Center, observed his classroom. More than a dozen Latino nursery workers were confidently navigating their way through an online practice test for a pesticide applicator's license.

Uribe transformed a Private Pesticide Applicator Exam Prep Course using hybrid learning techniques with the help of collaborators Dr. Luisa Santamaria, assistant

More than two dozen Extension faculty are trained in the design and delivery of hybrid outreach educational programs.

professor and Extension plant pathology specialist, and the Oregon Department of Agriculture. Uribe designed the class after taking advantage of an eight-week workshop offered by OSU Extension & Experiment Station Communications in cooperation with the OSU Center for Teaching & Learning's Hybrid Teaching Initiative.



Uribe knew that a hybrid learning course—especially one taught in Spanish—held potential for capturing the attention of this hard-to-reach audience.

Students can view online lectures at their convenience on their computers or mobile devices—and review them as many times as they want. Valuable class time is reserved for hands-on activities, discussion and field work.



#5

Pharmacists Rely on OSU Course to Prepare for Prescribing Contraceptives

Responsibility requires pharmacists to have
new knowledge and skill set

The Oregon legislature's passage of HB 2879 in June 2015, enables Oregon pharmacists to prescribe birth control starting in 2016. Prescribing is a new responsibility for pharmacists that requires a new skill set.

Professional and Continuing Education (PACE) worked closely with Oregon State University's College of Pharmacy to develop and deliver an online, self-paced course in record time. "Comprehensive Contraceptive Education and Training for the Prescribing Pharmacist" provides the foundational knowledge and professional guidance necessary for pharmacists to take on the role of a prescriber in the therapeutic area of contraception and women's reproductive health.

The accelerated four-week development timeline helped ensure as many Oregon pharmacists as possible were prepared for the change by January 1, 2016. **Costco, Rite Aid and Safeway-Albertsons are among the corporations relying on the PACE course for timely training of their pharmacists.**

The innovative online training and the partnership and collaboration between OSU, the Oregon legislature and pharmacy organizations set an effective example for other states, including California, which plans to follow this model.

PACE provides non-credit and certification courses for industry and individuals related to continuing education using e-learning and online instructional technology. For a full catalog of courses visit >> pace.oregonstate.edu/catalog.

Keeping Waterways Clean One Boat at a Time

Educating boaters about proper sewage disposal takes creativity & humor

How do you talk with boaters about a subject that is emphatically avoided in polite conversation? That is the question **Jenny East** (pictured below), Sea Grant Extension's new boating outreach coordinator, is attempting to answer. In an effort to keep waterways clean, she is charged with informing recreational boaters about facility locations for

Photo by Vanessa Ciccone



properly disposing of their sewage along the Oregon coast and Columbia River, and in the Portland-metro area.

Her job is finding innovative ways to engage with Oregon's recreational boaters. The key will be trying different methods such as face-to-face interactions at boating events, walking the docks, and spending time meeting with marina managers and the businesses that provide supplies for boaters.

Conversations will be about connections to the aquatic environment and being proactive about the health of that environment.

East will work with the Oregon State Marine Board to post signs showing where recreational boaters can empty their portable toilets and holding tanks. "Talking about the proper disposal of human waste will take some humor," East said. She's got a good start. Oregon Sea Grant has produced two light-hearted public service announcement videos about floating restrooms and dockside stations for emptying porta-potties.

East is based out of the OSU Extension Service office in Washington County.

◀ Innovative Partnerships *Continued from front*

of Tillamook and the Oregon Coast emerged as themes in many of the high school students' art pieces.

In tune with OSU's Marine Studies Initiative, the **OSU students built on a tradition of arts involvement in coastal discussions.** They took part in the State of the Coast conference, which brings together communities of people that live, work or study the Oregon coast. Through their participation as artists, resulting work and subsequent inspiration, the OSU students contribute to the evolving understanding of Oregon's coastal environment. OSU plans to offer Art 406 again in spring 2016.

Enter to Win a FREE iPad Air Wi-Fi!

Visit outreach.oregonstate.edu/drawing to enter the iPad drawing and for drawing details.



"It is said that 'no old road leads to new destinations.' An independent spirit has long been part of the Oregon—and OSU—heritage. We believe innovations focused on engagement immediacy and interactivity lead to new ideas that improve our work and the impact we have on communities and those we serve."

— Dr. Scott Reed, Vice Provost, University Outreach and Engagement



Outreach and
Engagement

The Division of University Outreach and Engagement connects Oregon State University to the rest of the world by making its educational programs accessible wherever and whenever people need to learn. The Division provides leadership across campus for the outreach and engagement mission and includes OSU Extension Service, OSU Open Campus, Professional and Continuing Education, Open Oregon State, Summer Session and Ecampus.

Oregon State University
101 Ballard Extension Hall
Corvallis, OR 97331-3606
(541) 737-2713

oregonstate.edu/extension-outreach

Seven selected to receive high honors at OSU gatherings

At two galas — one held in March in Huntington Beach, Calif., and the other scheduled for April 22 at the CH2M HILL Alumni Center on campus — OSU Athletics, the OSU Foundation and the OSU Alumni Association are bestowing their highest honors upon seven distinguished recipients. The honorees include:



CONNIE KEARNEY is this year's recipient of the OSU Foundation's highest honor, the Lifetime Trustee Award. Among other volunteer roles at

OSU, she served on the foundation's Board of Trustees from 2005 to 2011 and is the board treasurer for the Oregon 4-H Foundation.

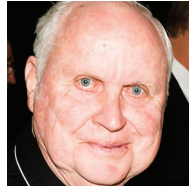
Part of the class of 1965, she started her studies at Oregon State on her way to a career in law. She and her husband, Lee, are among the university's most generous philanthropic leaders, with gifts supporting faculty, OSU-Cascades, athletics, 4-H and renovation of the home of civil and construction engineering, which was renamed Kearney Hall. From 1976 until 1980, she was the first woman to serve as commissioner of Clark County, Wash.



SUE AND GERALD VICKERS are this year's recipients of the Martin Chaves Lifetime Achievement Award from OSU Athletics.

The award honors the legacy of Chaves, who was captain of the 1942 Rose Bowl team and became an influential booster in various fundraising activities.

Gerald Vickers is owner and chairman of Emerald Forest Products, a Eugene-based plywood and veneer maker, and Sue is the company's top human resources executive. In addition to creating an endowment that provides unrestricted support to the athletic department, they have supported many key initiatives.



HAROLD "HAL" PRITCHETT '61 is this year's recipient of alumni association's Dan Poling Service Award, an honor named for an influen-

tial dean of men who served the university for more than five decades.

Pritchett, who founded OSU's Construction Engineering Management program, served on the engineering faculty for 45 years before retiring in 2002. Mentor to generations of Beaver engineers, he has received numerous engineering awards in Oregon and beyond.

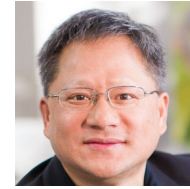


ALLYN FORD, a Roseburg lumber executive and philanthropist, is this year's recipient of the Joan Austin Honorary Alumni Award, the

alumni association's highest honor for those who are not Oregon State alumni. The honor is named for the late Newberg philanthropist, who was the first to receive it in 2005.

President and CEO of family-owned Roseburg Forest Products, Ford has been a staunch supporter of the College of Forestry since at least the early 1980s, donating time and other resources to help keep the college an international leader in the development of sustainable forestry and wood products manufacturing practices

Ford also serves on the board of The Ford Family Foundation, one of Oregon's most generous providers of support for rural communities and need-based scholarships for students who show great promise but have limited means. He and his family have had a broad impact on many OSU initiatives.



JEN-HSUN HUANG '84 '09(H), is this year's recipient of the E.B. Lemon Distinguished Alumni Award, named for an alumnus, teacher, dean and

volunteer leader who gave more than 70 years of service to the university. The Lemon award honors those who exemplify the service, generosity and success epitomized by its namesake.

Huang is co-founder, president and CEO of NVIDIA, a global technology company that designs and manufactures graphics processing units for a wide variety of platforms. Among its recent projects is Titan, the world's fastest supercomputer, built for Oak Ridge National Laboratories and deriving most of its processing power from NVIDIA GPUs.

When Huang was a boy, he and his older brother were mistakenly placed in a Kentucky reform school when they arrived in the U.S. from Taiwan. In 2015 Harvard Business Review named him the fourth-best performing CEO in the world in his field. He and his wife, Lori Mills Huang '85, have made numerous philanthropic contributions to Oregon State and many other institutions.



PAM KNOWLES '77 is this year's recipient of the Jean & C.H. "Scram" Graham Leadership Award. Named for a former alumni director and

his wife — who worked and volunteered on behalf of the association and OSU for almost their entire lives — the award honors individuals who give exemplary service to the alumni association.

An attorney, Knowles is a former member of the OSUAA board of directors and treasurer of the association. She serves on the Portland School Board and has been chief operating officer of the Portland Business Alliance, a partner in the Davis Wright Tremaine law firm and executive director for industry relations for the OSU College of Business. 🍌

Kearney, Pritchett and the Vickers were honored March 4 at a gala during the Destination OSU weekend in Huntington Beach, Calif.

Ford, Huang and Knowles will be recognized at the alumni association's Spring Awards Celebration April 22 at the CH2M HILL Alumni Center on campus. Tickets are available at osualum.com/events.



Their success is our goal

“Sometimes you will never know the value of a moment until it becomes a memory.”
 — Dr. Seuss

It's one of my favorite days, you know, that day in late September when brand new freshmen gather on the MU Quad and then — after hearing a welcoming greeting from me and others — practice their graduation march to Reser Stadium. New OSU Beavers are among my favorite people, and I captured the moment this past fall with a selfie.

Looking at it now, it takes me back to another first day of school.

James, the oldest of my seven grandchildren, will start college this fall, and it's bittersweet to hear him talk about his college search. I remember when his mother and I dropped him off on his first day of kindergarten. That scared little boy held our hands tightly as we approached his classroom. In a moment of bravery he reluctantly let go, and with a barely visible tear on his cheek, took the first step in his educational journey. I know many of you have similar memories.

Things have changed a great deal since I guided my own children from elementary school through the college process. At Oregon State and elsewhere, campus visits focus less on dining halls and athletic facilities and more on programs and facilities that help students progress toward graduation and post-college success.

President Ed Ray pledged at his State of the University address in Portland in February that OSU can and will do better at this. His call to action is firm and clear in the “Ed Said” column on page 10.

It's an “all hands on deck” situation, and we at the alumni association are enthusiastically on board. Thanks to our early engagement program, the association is helping students develop leadership and professional skills. Through events like Dinner with 12 Beavers and

our OSU Business Roundtable in Portland, we bring alumni and students together for mentoring and networking.

We closely collaborate with the university's Career Development Center. Earlier this year we held a virtual learning opportunity for international students and alumni who want to find employment in the U.S. Look for more on this expanding partnership and new mentoring opportunities in the coming months.

And, through your generosity, we support students through scholarship programs. In the last five years the association has provided more than \$1 million to deserving students.

Graduates and friends of OSU can all play a role in improving student success. Mentoring students, volunteering on campus or donating to scholarship funds absolutely makes a difference in stu-

dents' lives and increases their chance to succeed. Feel free to use the envelope provided elsewhere in this issue to make a gift to the alumni association.

Nelson Mandela once called education “the most powerful weapon which you can use to change the world.”

As you consider the scared little child who entered kindergarten all those years ago, think also of the great opportunities, adventures and challenges our Oregon State students face now, and of how we can all help them succeed. Together we can make a difference. 🍁

Kathy Bickel

Kathy Bickel,
 executive director and vice president
 of alumni relations



Photo by Hannah O'Leary

UPCOMING EVENTS

APRIL 22

SPRING AWARDS

CORVALLIS | CH2M HILL Alumni Center

Join us as we celebrate the accomplishments of three outstanding members of Beaver Nation.

osualum.com/springawards

MAY 3

STATE OF THE UNIVERSITY

BEND | Riverhouse on the Deschutes

Join Oregon State University President Edward J. Ray for a compelling update.

osualum.com/soubend

21

OSU COMMUNITY DAY OF SERVICE

NATIONWIDE

Beavers give back.

Demonstrate the giving spirit of Beaver Nation by signing up for a volunteer service site in your community.

osualum.com/service

JUNE 2-3

GOLDEN JUBILEE

CORVALLIS | CH2M HILL Alumni Center

The classes of 1966, 1961, 1956, 1951, 1946, 1941 and 1936 are coming back for camaraderie, a campus tour and Classes Without Quizzes.

osualum.com/reunions

JULY 12

GOLF WITH BEAVER NATION

PORTLAND | Langdon Farms Golf Club

Hit the links with Oregon State alumni and friends.

osualum.com/pdxgolf2016

AUG 20

GOLF WITH BEAVER NATION

BOISE | Purple Sage Golf Course

Hit the links with Oregon State alumni and friends.

osualum.com/boisegolf



OSU Alumni
Association

Alumni association, CPHHS join to create new position to use OSUAA resources to better engage college's alumni



The OSU Alumni Association and the College of Public Health and Human Sciences are experimenting with a new position, the association's first-ever college alumni relations director.

Veronica Royce, who had been development and alumni relations director for the College of Education at the University of Nevada, Reno, will work to increase engagement among the college's alumni and friends.

Her position is jointly funded by the association and CPHHS,

and she is part of the staff of both organizations.

Royce started in January and was soon on the road with CPHHS Dean Tammy Bray and others, meeting with Seattle-area alumni and friends.

The college, with roots in the home economics and physical education programs, has remade itself over the past decade. Focused on research and training in many fields of human wellness, in 2014 it became Oregon's first nationally accredited college of public health.

"It's a tremendous help that the college already has a loyal alumni base," Royce said. "I look forward to building on that. There are always challenges with developing a program from scratch, but there are a lot of resources at the alumni association that are now at the college's disposal to enhance student success and expand the alumni network."

Royce's experience also includes development work at Gettysburg College in Pennsylvania. She has a business degree from Hope International University in Fullerton, Calif., and received a master's in international affairs from George Washington University in Washington, D.C. To read more about her, see an interview on the CPHHS website at bit.ly/veronicaroyce.

"Veronica is off to a great start in this new position," said Kathy Bickel, executive director of the association and OSU's vice president for alumni relations. She noted that there's a growing national trend in alumni relations toward activities based on graduates' affiliations with academic disciplines or group activities, rather than just their class year.

"Dean Bray and I worked with our staffs to find best practices across the nation as we designed this position to meet the needs of the college and its alumni," Bickel said. "It's clear that Veronica is the right person to pilot this approach at OSU. We're already thinking about ways to create similar positions with other colleges." 🍌

Help make a difference on OSU Day of Service, May 21

It's time for Beaver Nation to mark its collective calendar and plan to participate in the 2016 OSU Community Day of Service on May 21. The traditional event has hundreds of alumni and friends gathering across the Northwest and elsewhere to spend a Saturday morning working on a community service project, renewing friendships and making new ones.

Visiting and helping veterans, cleaning out overgrown playgrounds, preparing community gardens for families hoping to grow their own food and adding a much-needed coat of paint to various public amenities are just some of the projects available at the various sites.

Many locations offer work suitable for all ages. Most projects are organized and led by alumni association volunteers, more of which are always needed. To learn more about working at a site or hosting a project in your community, visit osualum.com/service or get in touch with Kate Sanders at kate.sanders@oregonstate.edu or call 541-737-6220. 🍌



Photo by Hannah O'Leary

OSUAA meeting set for Bend

The annual meeting of the OSU Alumni Association will be held on Friday, May 13, 2016 in Bend. For more information contact Laura Pribyl '04 at 541-737-7904 or laura.pribyl@oregonstate.edu.

Student ambassador leader finds involvement pays off



OSU senior Vivian Chau, majoring in bio-health sciences with a pre-pharmacy option, is president of the Student Alumni Ambassadors.

Supported by the OSU Alumni Association and recently merged with the Student Foundation of the OSU Foundation, the SAA describes itself as “a group of enthusiastic students dedicated to enhancing the connection among students past, present and future. SAA members coordinate a variety of events and initiatives that integrate students and alumni across Beaver Nation ... through a variety of programs, including Dinner for 12 Beavers, Homecoming Week, Senior Send-off and many others.” We asked Chau a few questions about her involvement in the group and her experience at Oregon State:

What's been your experience with the SAA?

“For these past three years I have been on the board of the Student Foundation and then the SAA, and it has taught me that alumni are an integral part of students’ experiences at OSU. It has also taught me that there is more to college than school itself. Getting involved in things across campus has helped me meet new people and open up more. Three years ago, if someone

told me I would be on the executive board of the SAA, I’d have laughed, but after this experience I have learned the value of leadership skills and teamwork.”

Do you have a favorite spot on campus?

“During the fall, OSU is gorgeous and the natural beauty of Oregon shines. But my favorite place is the MU Quad in the spring. When it’s hot enough outside students come out to the lawn in front of the steps and play Frisbee or study in the shade under the trees.”

What has been your favorite class?

“The general chemistry series. I am studying pre-pharmacy, and chemistry is a large factor in becoming a pharmacist. It has shown me how much I love hands-on work and creating reactions.”

How are you paying for college?

“Fortunately, my parents have been able to fund my education these past few years and have continued to support me. I could not thank them enough for what they have done for me. I am also fortunate enough to have maintained a job during the school breaks. Thanks to the leadership and teamwork skills I have obtained from being involved in the Student Foundation and in Chi Omega, I was able to start working at a pharmacy near home in Portland. That means I get to go back during breaks to work at my dream job.”

To learn more about the SAA and how to get involved, visit osualum.com/saa.

VOLUNTEER WITH BEAVER NATION

Beavers support each other, because that’s what we do. Last year, our volunteers logged more than **2,500** hours nationwide.



Opportunities include hosting events, mentoring students and **much more**. Find an opportunity that works for you, visit osualum.com/volunteers.

OSU Alumni
Association

Noted food writer Reichl impressed during visit

Award-winning food writer and chef Ruth Reichl got a taste of Oregon State this February, starting with a visit to OSU's Food Innovation Center in Portland followed by a day on campus.

"I was truly blown away by what I have seen," she said, citing the broad "soil to shelf" scope of the university's work with food production, innovation and marketing. She was especially impressed with Oregon State students.

"They really want to change the world. Something happened to them at this university that lit a fire under them."

Nearly 800 people attended Reichl's presentation at the LaSells Stewart Center, which was part of the Provost's Lecture Series. Co-sponsored by the Office of the Provost and the OSU Foundation, the series brings renowned speakers to campus to engage in thought-provoking discussions on topics of cultural and global significance. Learn more at: communications.oregonstate.edu/events/provostslecture.



Many alumni, including (left) Sally Ross Plumley '61 and Neil Plumley '61, welcomed Reichl to Corvallis. (Photos by Hannah O'Leary)



Ruth Reichl met with several groups of students, including a gathering of aspiring food writers.



Several leaders from Oregon's food, wine and restaurant community met with Reichl in Portland, including (from left) Katherine Ford Durant '61, of Durant Vineyards, cookbook author Janie Hibler and Cecilia Ritter-James and Jessica Ritter of the family-owned Wild Pear Restaurant & Catering in Salem.

Scholarship paves the way for young families



Lou Mace had completed two years of college in Washington when he and his wife, Jeanne, started their family. Returning to college wasn't easy for the young couple, but Lou completed his civil engineering degree at Oregon State in 1959 and launched a distinguished career in highway and heavy construction.

Now the Maces, who live in Rancho Mirage, Calif., have made plans through their estate to create a scholarship for engineering students with dependents — making the path for young families a little smoother.

Lou Mace made lasting contributions to the Pacific Northwest as an executive with

S. J. Groves and Sons, one of the leading builders of the interstate system in the United States. Projects he led included construction of the I-205 bridge across the Columbia River — the first segmental bridge in the West — and construction of the North Powerhouse at Bonneville Dam. He later was responsible for operations in South America, Canada and Saudi Arabia.

His own company, M.A.C.E., Inc., specialized in hydro projects. He also was active with Heither/Mace, which primarily worked with the Federal Aviation Administration and the U.S. Air Force.

Such an impact is more than the engineering student hunkered down in what

was then Apperson Hall (now Kearney Hall) could have imagined. "That's where I spent 95 percent of my time; it's where I learned my passion and my trade," Mace said. "As a married student, I didn't really have a lot of time to enjoy the campus, but I've enjoyed getting to visit later."

Mace served many years on the board of the Construction Education Foundation, which provides extensive support to OSU's civil and construction engineering programs and helps to connect students with the industry. He and Jeanne also invested in today's students by contributing to the Beth Ray Center for Academic Support.

Their planned estate gift creating the Lou and Jeanne Mace Engineering Scholarship Endowment Fund recognizes the unique challenges faced by married students, particularly those with children.

"When I was in college it was very difficult for married students to receive financial help," Lou Mace said. "We would like to help others along so that they don't have to leave school because of financial hardships."

President Ed Ray welcomed the gift and had special praise for its focus.

"Wonderful scholarships like this one from Lou and Jeanne are key to increasing student retention and graduation, and this is our highest priority at Oregon State," he said. "We cannot let financial challenges stop our talented students from fulfilling their potential." 🍁



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OSU OREGON STATE UNIVERSITY
FOUNDATION



To honor his father, Gary Payton II played his final home game not in his own number 1, but in his dad's retired number 20. (Photo by Tyler Moss)

Winter sports offer many great days to **BE A BEAV**

By Kip Carlson

Editor's note (written as the magazine went to press): In a season full of historically sweet moments for Beaver fans, the women's basketball team won the Pac-12 Tournament (see photo, page 3) and made it to the Final Four of the NCAA Tournament for the first time ever, while the men played in the national tourney for the first time since 1990 before bowing out in the first round. Other Beaver teams made their own great runs. This is the tale of one particularly fine week along the way.

Seeing one of the royal families of OSU athletics have its Gill Coliseum experience come full circle was just one highlight of six days to remember for Beaver fans who wear their hearts on their orange and black sleeves.

In less than a week, the Beavers scored triumphs in venues up and down the West Coast, in basketball, wrestling, gymnastics, baseball and softball.

The memory-making moments includ-

ed seeing OSU legend Gary Payton watch from courtside as his son, Gary Payton II, played his final game on the court where the elder Payton had bowed out 26 years before.

It all started on the 24th in Gill, when Stephen Thompson Jr. hit a three-pointer at the buzzer to beat Washington 82-81. The Beavers had trailed by six with less than two minutes to go in a game considered must-win for their NCAA Tournament chances.

Three days later, OSU won its fifth straight Pacific-12 wrestling title and heavyweight Amarveer Dhesi was named the tournament's Outstanding Wrestler.

That same day, the 27th, OSU's softball team won twice to improve to 14-2 on the season; the next week they would break into the national rankings at No. 22.

The good news on Feb. 28 began with the seventh-ranked Beaver women's basketball team — coached by OSU grad Scott Rueck — gaining a share of its second

straight regular season Pac-12 title by winning 54-44 at California. A few days later, Jamie Weisner was voted Co-Player of the Year by media covering the conference. (The team would go on to win the Pac-12 Tournament for the first time, and then — just before the *Stater's* press deadline — reach the NCAA Final Four.)

Also on that busy day, the fifth-ranked Beaver baseballers dropped Kansas 3-1 in Arizona for their seventh win in their first eight games.

A day later, the No. 20 OSU gymnasts came from behind to beat Stanford in a matchup of nationally ranked teams at Gill, 196.325-196.250.

And then there was that memorable afternoon of Sunday, Feb. 28.

Twenty-six years and four days earlier, OSU and NBA legend Gary Payton had worn No. 20 at Gill Coliseum as the Beavers beat UCLA 83-74 in a key game on their way to the Pac-10 co-championship. OSU retired Payton's number during



Women's basketball drew huge crowds to Gill this year. At right, heavyweight Amarveer Dhesi led Beaver wrestlers to the Pac-12 title. (Photos by Hannah O'Leary, Scobel Wiggins)

the 1996-97 season, meaning no Beaver player would ever wear it again.

Then, just before tipoff on the 28th, a sellout crowd of 9,604 saw the younger Payton peel off his warmup to reveal not his customary No. 1, but his dad's No. 20.

As he had done each game this winter, the son then ran across the court to his father and the pair — featured in a Sports Illustrated article that week — embraced.

With the sun streaming through the windows at each end of Gill providing a warm glow, the Beavers beat Washington State 69-49. As his father had, the younger Payton finished his home career by pushing his team to within reach of the NCAA Tournament — OSU's first since his father's senior season.

And the game had its other moments.

Jamie Stangel '87, who played for the Beavers in the early 1980s, also saw his



son, Justin Stangel, play wearing his old number — 40. Daniel Gomis, an oft-injured fifth-year senior who had missed the past six games with his latest foot ailment, hobbled onto the court late in the game and scored one last time.

When it was over, both Paytons stayed on the court signing autographs and posing for pictures. Many of the lingering fans

likely had seen the elder Gary's finale, but many of those seeking autographs were young enough they may have known him best for being Gary II's father.

Despite the differences in their age and in the way they competed, both had played their final seasons at OSU in style, as they and their teammates wrote some Beaver sports history. 🍌

10 years later, 2006 baseball champs recalled

The mere fact that Oregon State, from a rainy region and not known as a baseball powerhouse, won a national championship 10 years ago made it one of the great sports stories ever in Oregon. Add the way the Beavers went about it — and that their team leader and catcher called the shot in a rap lyric — and OSU's 2006 season is one of the greatest college baseball stories ever.

This season marks the 10-year anniversary of the Beavers winning the first of back-to-back national titles by capturing six elimination games, including one in the championship series against North Carolina, with OSU behind by five runs in the fourth inning. A day later, after a 3-2 win over the Tar Heels wrapped it up, "O-State Ballaz," by catcher Mitch Canham '11, played over the Rosenblatt Stadium public address system as a tearful Canham embraced his teammates. Its closing line referred to the previous season's winners: "And Texas? You 'bout to get your ring took."

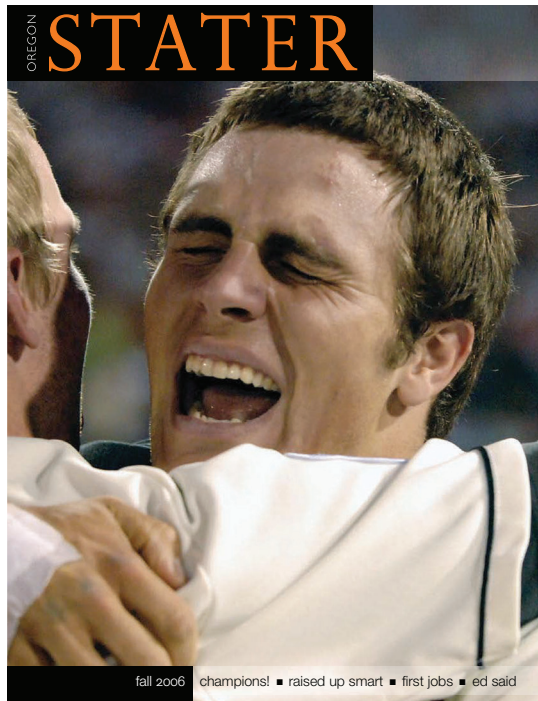
It's a sweet memory for Head Coach Pat Casey.

"I can't adequately put into words what that team means to me and the impact they've had on Oregon State baseball," he said. "Those guys are forever etched in my mind and the history of Oregon State baseball. They're a pretty special group."

OSU would add a back-to-back national championship the next year, another College World Series appearance in 2013 and two more Pac-12 titles as Goss Stadium at Coleman Field became one of the best college baseball environments in the nation.

OSU Baseball scheduled a celebration of the 2006 national champions for April 1-3, during a home series with Washington. The Beavers decided to wear cream-colored jerseys with old-style BEAVERS lettering and OSU script caps, with 2006 highlights on the video screen and a chance for fans to get their picture taken with the national championship trophy. 🍌

— Kip Carlson



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OSU Alumni Association

Reser's Terrace to promote fan fun, Oregon goods

A late addition to OSU Athletics' \$42 million renovation of the Valley Football Center at the north end of Reser Stadium brought the February announcement of The Terrace, an innovative, 13,000-square-foot vending area where fans will get exclusive access to food and drink with an Oregon connection.

"We knew the Valley Football Center improvements would be a game-changer for our football program, but we also wanted to improve our fan experience and we wanted to tell part of the broader Oregon State story," said Zack Lassiter, deputy athletic director for external operations.

The boom in locally crafted wine, beer and food — and the deep involvement of OSU researchers and graduates in those industries — made The Terrace a natural, one-of-a-kind fit, he

said. Vendors in the area will offer the best of what craft food and beverages — from Oregon or from elsewhere but with an OSU connection — have to offer. The College of Agricultural Sciences will help select the products.

Fans will access The Terrace in two ways: They can buy one of about 600 premium seats in the new, adjacent, up-scale end zone seating area or they might receive one of 900 special "Orange Tickets" for free, one-game, in-and-out access to The Terrace. Fans will need seats elsewhere in Reser to receive an Orange Ticket. Lassiter said the Terrace experience will be shared with Beaver fans of all types, regardless of donation level, as the season progresses. 🍌

For more, visit osubeavers.com/fls/30800/sites/terrace

Beaver 'Ideation Team' telling the story from the inside

After Zack Lassiter was hired to raise the visibility of Oregon State athletics, he heard various pitches from creative agencies interested in representing the Beavers.

"And while agencies are great for a lot of things," said Lassiter, OSU's deputy athletic director for external operations, "every time I would speak to them I had to explain where we were going, what we felt like our brand story was going to be, what important things were there."

There had to be another way to do it — a more direct way to authentically tell the story of Beaver sports. Enter the new OSU Athletics Ideation Team.

"Who better to do it than ourselves?" Lassiter said. The group, envisioned to eventually include six or seven full-time staff members, will create print, video, audio and social media content to be distributed through OSU's sports information and marketing offices. Essentially, it will be an in-house creative agency.



Leading the group is **Russell Houghtaling**, hired this winter after spending the past three years as director of digital media for Oklahoma athletics; he has also managed Internet services for Washington athletics and been assistant

director of media relations at Northern Illinois.

Houghtaling noted that the standard model for athletics — perhaps having graphic design working in the marketing office, social media working in sports information, video on its own, and so on — makes it hard to present a cohesive message.

With the ideation model, one closely-knit team is responsible for doing it all, with a uniquely Oregon State flourish. The groups' debut came with the rollout of The Terrace, including the ad on the opposite page and the accompanying Internet presentation.

"We can get together and tell the same story," Houghtaling said. OSU students, particularly those in the New Media Communications program, will get a chance to contribute. One who is already on board is basketball player Samantha Siegner, who has been part of the video team this year.

Lassiter sees Oregon State — both in athletics and the university as a whole — as having great stories to tell but being too humble about telling them.

"If we can do our job and tell those stories and have the success on and off the field that we're going to have, I think we're going to be able to connect the dots for people," Lassiter said. 🍌

— Kip Carlson

He wants athletes to be more ready for what comes next



Kimya Massey wants to better prepare OSU's student-athletes for the post-graduation world by creating more opportunities than ever for them to develop leadership skills and get focused on how they'll make a living and be of service in their communities after they get a degree.

OSU's senior associate athletic director for student-athlete development has a broad and growing plan to make that happen. It includes everything from more emphasis on the Beavers' established Everyday Champions and Beavers Without Borders to a new program helping athletes build the skills and accumulate the experience needed for admission to medical school. He's also creating a student-athlete response team to write and speak publicly on issues in athletics, such as the time crunch that keeps them from participating in many developmental activities open to other students.

As with all students, graduation is important for athletes, Massey said. He came to OSU in 2015 from a University of Central Florida program whose Graduation Success Rate of 93 percent for athletes was top in the nation for Division I colleges.

"But here's where we're different at OSU," he said. "We're saying, 'We know you're going to graduate, but that just means you're beginning the next part of your journey, which is real life, professional life. We want you to think about what's next.'"

A new investment club among the athletes features computer simulations based on live data, showing them how financial markets work.

"They get very competitive," Massey said.

"A lot of them get here and their identity is, 'I'm an athlete.' We're teaching them to think about the rest of their identity, not just who they are as athletes, but who they're going to be as men and women." 🍌



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NEW LIFE MEMBERS

The OSU Alumni Association welcomes alumni and friends who have become life members since the list was last published in the winter *Stater*. Learn more at osualum.com/life.

Patrick Allen '85	Ann Flatz '79	Robert Kemp	Mary Paczesniak '72
Jeffrey Ambrose '80	Bill Flatz '95	Eric Kenney '12	Ann Parrish '02
Robert Andersen '86	Jesse Fordyce	Jason Kent '03	Jesse Parrish
Josh Andrews '14	Catherine Francis '71	Grant Kerber '57	William Perry '89
Tyler Andrews '00	Deann Frazee '76	Nancy Kerkvliet '73	Denise Petersen '80
Susan Atencio '86	Levi Gill '02	Robert Knight '72	Charlotte Peterson '84
Dimitre Axelson '14	Patrick Gillen '90	Deborah Kingsley '74	Jay Peterson
Daved Baldrige	Susannah Goff '53	Michael Kingsley '75	Michael Phipps '69
Carolyn Bartruff '67	C. J. Golondzinier, Jr. '66	Roger Kovacic '76	Michael Pofahl '83
Victor Bartruff '71	Brooke Goodman '99	Walter Kowalewski '71	Darrel Purkerson '63
Kristen Baustien '74	Geoffrey Goodman '99	William Krutzer '67	Dean Riley '91
Kristopher Beahan '00	Jared Goodman '08	Mei-Chuang Kuo	Jane Roberts '72
Steven Beals '90	Rosalie Goodman	Carl Larson '73	Bob Rothschild '65
Danika Beard '14	Ryan Gordon '02	Richard Larson '74	Sheryl Sablan '85
Dan Beauchamp	W. D. Gorman '62	Margaret Leinen '76	Kristine Salter '74
Karen Beauchamp '97	Annie Grasl '11	Kandice Lemhouse '05	Larry Salter '74
Nadine Becknell '98	Lynda Green '11	Clara Lincoln '73	Marla Sandman
Robert Bentley '79	Charles Greenlaw '76	David Lindsay '76	Thomas Sandman '81
J.P. Bertram '11	Martha Greenlaw	Maria Lomas '00	Linda Schapper
L. G. Black '67	Nicole Griffin '01	John Lovelady	Robert Schapper '68
Sheryl Black '69	Donald Guerber '50	Douglas Luccio '94	Bonita Schmidt
Janice Boatwright '85	Gladys Guerber	Stanley Lynch '73	James Schmidt '66
Pamela Bodenroeder '69	Chadwick Gugg '01	Alfredo Madrigal '07	Eric Sergienko '86
Betty Bonta '57	Kelly Guido '82	Ernesto Madrigal '13	Pamela Silbernagel '82
Rebecca Brandtjen '14	Carole Haitsuka	Kristina Madrigal '09	Randall Silbernagel '82
Christopher Brickner	Eric Hale '13	John Mallinson '79	Diane Simon '66
Kelly Brickner '84	Deborah Harbolt '88	Nancy Mallinson	Gary Simon '65
Terry Brown '68	Tom Harbolt '88	Joey Markgraf '10	Gerald Slind '69 '74
Sandra Brumbaugh '68	Louie Hargett '62	JoAnn Mast '74	Clayton Smith '10
Benjamin Byers '14	Jason Harris '98	Debbie McCubbin '97	Cynthia Smith '93
Bill Byers '73	Sarah Harris '97	Jeffrey McCubbin	Dennis Snoozy '93
Janis Byers '89	Brian Harvey '10	Stan McGehee '77	A. Leiomalama Solomon '81
Barbara Carlson '63	Roman Hernandez '92	John McGregor '83	Brian Stadtmiller '96
Gerald Carlson '63	Stephen Hildenbrandt '77	Susan McGregor	Joy Stahl
Scott Cassidy '82	Stephanie Hine '01	Jean McKinney	Ron Stahl '91
Becky Ceniga	William Hine '14	Malcolm McKinney	Stephen Stehman '82
Julian Ceniga '67	Mark Holcom '79	Patrick McNamara '10	Aporn Stein '06
Sydney Chaney '86	Emily Holliday '01	Mark Mellbye '73	Shelley Stewart '80
Philip Choong '65	Steve Holliday	Marc Monaghan '95	Cheryl Storey '78
Kelly Clement '98	Kelly Howard '81	Norman Morrison '74	Richard Terrell '71
Ronald Clement, Jr. '07	Kathy Howell '96	Matthew Muravez '05	Hal Tippens '82
Mark Collins '90	Kimberly Hunt '82	Adam Nasset '08	William Tipton '84
John Conklin '86	Lyle Hutchens '76	Philip Nelson '84	Allie Tossberg '91
Abby Craig '03	Sharon Hutchens	Robert G. Nelson '74	David Ulbricht '85
Donald Crossfield '73	Steven Hutchison '75	Veronica Nelson '14	Lori Hantze-Ulbricht '84
Anna-Theresa de Roover '15	Elizabeth Isensee '94	Alice Norris '66	Dennis Varin '76
Carol Delockroy '65	Marlene Izatt	Jeffery Nuss '87	Paul Veenker '95
Jason Dudley '98	Ronald Izatt '68	Kathryn Nuss '89	David Wagner '56
Robert Ewing, Jr. '72	Stephanie Jorgensen '68	Joseph Obersinner '13	Jerry Wallingford '72
Jacqueline Fabbi '88	Elizabeth Kalowski '73	Patrick O'Brien '73	Roger Wells '77
Thomas Ferreira '77	Ji-Hae Kang '14	Devin O'Donnell '14	Grant Yoshihara '77
Stephen Fitch '64	Janet Kearney '79	Hannah O'Leary '13	

CHANGES

J. Edward Alexander '70, Minneapolis, Minn., reports that after leaving OSU, "I received an M.S. from Carnegie-Mellon in 1974 and (finally) finished my Ph.D. in ME from the University of Minnesota in November 2015. I have managed an applied mechanics group at BAE Systems for the past 31 years."

Corie Jones '75 retired in August 2015 after a 36 year career teaching in Salem and Everett, Wash. She also served as a curriculum specialist with the Educational Service District 113 in Olympia, Wash., where she currently resides. She is the State Advocacy Chair for Washington Library Media Association and is a consultant for integrating technology in the classroom.

Paula Hammond '78, senior vice president at WSP | Parsons Brinckerhoff, was elected to AAA Washington's Board of Trustees. She concluded her career at Washington State Department of Transportation as Secretary of Transportation after 34 years of public service. She was in an *Oregon Stater* cover story in 2009. See it at bit.ly/hammond2009.



John Beckstead '05, Mesa, Ariz., has been named a principal with the financial services firm Edward Jones. He was one of 51 individuals chosen from more than 43,000 associates to be named a principal.

Taylor Sarman '16, served as a White House intern with the President's Commission on Fellowship, January through April of 2016. While at OSU he served as student representative on the first OSU Board of Trustees and as president of the ASOSU.

RECOGNITIONS

Rockne Freitas '68, former NFL football player and chancellor of the University of Hawai'i West O'ahu, was one of five men inducted into the Polynesian Football Hall of Fame in Laie, Hawaii, in January. The nonprofit educational organization creates a scholarship at the alma mater of each inductee, to be awarded to student-athletes of Polynesian ancestry.

Tony Allen '80 '83, State Geotechnical Engineer at the Washington State Department of Transportation, has received the L. David Suits Award from the American Society for Testing and Materials (ASTM) International. Allen specializes in geotechnical engineering, particularly focusing on foundation and wall design, landslides, geosynthetics and geotechnical seismic design. He joined WSDOT in 1983 as a foundations engineer and assumed his current role in 1993.

Robin S. Greenleaf '81 received the 2015 Chair Emeritus Award & the ACEC Coalition Distinguished Service Award from the American Council of Engineering Companies. She is president of Architectural Engineering, Inc., in Boston, Mass.



Greg Delwiche '83, Bonneville Power Administration deputy administrator, was selected by President Barack Obama to receive a Presidential Rank Award. Only 1 percent of senior executive service employees can earn the award in Delwiche's category. He was recognized for his more than 15 years as an executive where he played an integral role in issues of regional and international significance, including the Columbia River Treaty review, the \$1 billion Columbia Basin Fish Accords, implementing BPA's 20-year power sales contracts with its 142 utility customers and the Department of Energy's nearly \$800 million uranium tails agreement with BPA partner Energy Northwest.

Penny Kittle '83 received the 2015 Exemplary Leader Award from the National Council of Teachers of English. A teacher in Conway, N.H., she has authored books and speaks nationally and internationally about the need for change in the way that reading and writing are taught. She founded the Book Love Foundation, which, as the organization states, donates "libraries comprised of hundreds of books carefully chosen to meet teenagers where they are and lead them to the deep rewards of reading. We put those books into the hands of teachers who demonstrate a commitment to rich reading lives for all students in the U.S. and Canada." The Foundation has raised \$100,000 and awarded 25 libraries in its first three years.

PUBLISHED

DeVon Wayne Linn '55, of Ashland, has written a memoir of his Peace Corps service in Malawi, Africa. *Letters from the Linns of Lilongwe: A Peace Corps Volunteer Family Odyssey, Malawi 1973-1975*, recounts his family's travels, day-to-day experiences with schools and his service as Malawi's Chief Fisheries Officer.

Gerry Young '64 '71, of Commerce Township, Mich., has written his first novel, *Deep Secrets: A Cold War Thriller*. Set in 1975 during the Cold War, this novel is based on an actual project the U.S. Navy was introducing known as Outlaw Shark, and a submarine officer who finds himself drawn reluctantly into the naval intelligence community.

Chris Goodell '94 has published a book titled *Breaking the HEC-RAS Code* for use in the hydraulic engineering field. He is director of applied research at WEST Consultants, Inc., in Portland.

Gary M. Goodman '70 published his first book in September, titled *Our Business is Picking Up — Evolution of the garbage collection industry in Oregon*.

Sara Backer '79 won the 2015 Turtle Island Poetry Award for a hybrid chapbook of her poems and essays, *Bicycle Lotus*, which explores how we fight and embrace the wild world.

Vicki G. Righettini '85 has written a historical novel, *The Blue Hour*. The story takes place in the Blue Mountain region of Eastern Oregon and centers on a young spinster from the Midwest who must face the rigors of the Oregon Trail and homesteading in the Oregon wilderness.

John Bowman '10, of Portland, has written *Stoicism, Enkrasia and Happiness*, which explains how to attain happiness through Stoic philosophy. One of his examples features the story of **Jason Regier** '98, American Paralympic wheelchair rugby player and eight-time gold medalist from Denver, Colo.

OTHER NOTES

Betty Edwards Alldredge '48 and **Mickey Pedersen** lived in The Pines when they were at OSC. Betty graduated and moved to Texas while Mickey left school to get married. They met again when, unbeknownst to each other, they both moved into the Garden Valley Senior Living Community in Roseburg. While conversing at lunch one day, they realized they were long-lost roommates who had not spoken to each other in nearly 70 years. They have rekindled their friendship and enjoy reminiscing about their college days.

Laura Naumes '81, Medford, is an OSU Trustee and chief operating officer of Naumes Crush & Fermentation, which provides full-service winemaking, lab analysis, cold storage and support services to growers and wineries. Her family has been growing pears, apples, cherries and specialty fruit in the Pacific Northwest and California for 113 years.

Kathy Kaiser '89 wrote about an accomplishment: "OSU grads can do anything - even when the task takes them to all seven continents. I never planned on running a marathon, ever, but plans change and I just finished my seventh continent in December, 2015. This is for everyone who believes in taking small steps."

Dr. Mickaila Johnston '98 and **Derek Abbey** '99 have been searching for and finding Americans Missing in Action from World War II for more than two decades. In recent years, the work of the BentProp Project has been featured on "60 Minutes" and other news outlets. Abbey writes: "Mickaila and I met at OSU as students and have spent careers in the military. We are preparing for our next mission to Palau, which will take place in March and April."

Stacey Mitchell Vaughn '06 and her husband, **Andrew Vaughn** '06, have founded Tandew, an on-demand tutoring company servicing students at Oregon State and other campuses around the state.

PASSINGS | ALUMNI

Lena Santoro '38, Portland.
Clarice Gates Norman '40, Portland. *Alpha Chi Omega*
Dean K. Steidinger '40, Lake Oswego.
Charles H. Chandler '41, Baker City.
Marjorie Lacklen Wright '41, Spokane, Wash. *Delta Delta Delta*
Edward J. Dmytryk '42, Medford, Mass.
Clinton K. Peck '42, Portland.
Roy "Bud" Philippi '42, Arlington. Named a Diamond Pioneer by the College of Agricultural Sciences, he served as president of his fraternity with the nickname of "Smooz." *Sigma Chi*
E. Sam Dement '43, Myrtle Point. He was a past president of the Western Livestock Association and the Oregon Cattlemen's Association and was a state senator representing Coos and Curry Counties from 1968-1972. He was in the OSU Agricultural Hall of Fame and an OSU Diamond Pioneer. Donations in his name may be made to the Department of Animal and Rangeland Sciences at *osufoundation.org*. *Sigma Alpha Epsilon*
James G. Weber '43, Mercer Island, Wash.
Frank S. Scott Jr. '44, Lanikai, Hawaii.
Geraldine deLancey Young '44, Boulder, Colo.
Margaret Krebs Brockway '45, Sisters. *Kappa Alpha Theta*
Dorman B. Willard '45, Eureka, Calif.
John P. Dickson '46, Portland. *Sigma Nu*
Maxine Grover Eimers '46, Grangeville, Idaho.
Carol Angerman Nicholls '46, Salem. *Chi Omega*
Barbara Nizic O'Brien '46, Portland. *Chi Omega*
John F. Crockett '47, Hillsboro.
Wilma Wark Dungan '47, Vancouver, Wash.
Robert H. Eaton '47, Phoenix, Ariz. *Sigma Nu*
Gloria Stuart Kennedy '47, Portland.
Milton S. LaFranchi '47, Bend. *Alpha Tau Omega*
Robert F. Russell '47, Baker City. *Kappa Sigma*
Gordon E. Walker '47, Watauga, Texas.
Robert H. Anderson '48, Gresham. *Sigma Chi*
Richard L. Barnes '48, Sublimity. He was named an OSU Diamond Pioneer in 2000.
Donald L. Bower '48, San Mateo, Calif. *Phi Delta Theta*
Louie Favero '48, Folsom, Calif.

Malcolm V. Greig '48, Lake Oswego. Memorial donations can be made in his name to Our Beaver Nation, *osufoundation.org*. *Lambda Chi Alpha*
Paula Kurtz Hunt '48, Salem.
Athol C. Libby '48, Ocean Park, Wash.
Raymond W. Marr '48, Williamstown, Vt.
Donald L. Pretzinger '48, Salem.
Sharon Cudahy Spease '48, Mesa, Ariz. *Chi Omega*
Harriet Erickson Stangland '48, Tonasket, Wash. *Kappa Alpha Theta*
Richard D. Swartzlender '48, Redmond.
Donald P. Allen '49, Eugene.
Donald E. Anderson '49, Tacoma, Wash.
Robert L. Caster '49, Forest Grove. *Kappa Delta Rho*
Robert J. Chrisman '49, Westlake Village, Calif. *Sigma Alpha Epsilon*
Robert R. Dargatz '49, Hailey, Idaho. *Sigma Alpha Epsilon*
Nat R. Etzel '49 '59, Spokane, Wash. *Phi Sigma Kappa*
John C. O'Brien '49, Portland. *Theta Chi*
Samuel W. Raymond '49, Phoenix, Ariz. *Alpha Gamma Rho*
Richard L. Willey '49, Port Townsend, Wash.
Bernard R. Wolff '49, Portland. *Pi Kappa Alpha*
W. Thomas Worth '49, Gig Harbor, Wash.
Lui A. Avanzino '50, Sunnyvale, Calif.
C. "Brownie" Brown '50, San Andreas, Calif. Contributions in his name may be made to *osufoundation.org*.
Frederick Jay Dryer '50, Fort Worth, Texas. *Phi Kappa Psi*
Gilbert W. Dyer '50, Taylors, S.C.
Joan Schuler Flomer '50, Woodburn. *Kappa Kappa Gamma*
Verne L. Johnson '50, Philomath.
Guy E. LaSalle '50, Portland.
Charles E. Lauderdale '50, Gold Canyon, Ariz.
Billie Snyder Majnarich '50, Wilsonville. *Delta Zeta*
Patrick D. Minturn '50, Vancouver, Wash. *Alpha Sigma Phi*
Patricia Pearson Morgan '50, Newberg. Donations in her memory may be made to OSU Foundation at *osufoundation.org*. *Alpha Chi Omega*
William L. Morse '50, Portland. *Theta Xi*
Ernest L. Neal '50, Eugene. He played basketball for Slats Gill for two years (1945-1947).

Margie Kawasaki Ogawa '50, Mill Valley, Calif.
Adrian D. Olson '50, Silverton.
Raymond O. Ruckert '50, Albany. *Theta Chi*
**Richard J. Spady** '50, Bellevue, Wash. In 1954 he opened the first of several Dick's Drive-ins in Seattle. The beloved burger stores, which accept cash only, have been a long-time fixture in Seattle. His chain offers the highest pay in the industry — well above minimum wage — as well as providing 100 percent paid health insurance coverage (including part-time employees). He also gave more than \$1 million in scholarships to employees and supported many charities. *Theta Xi*
LeRoy L. Stubberfeld '50, Wilsonville. *Phi Sigma Kappa*
Merton D. Taylor '50, La Grande.
Louis E. Walker '50, Brownsville.
Wayne E. Woodward '50, Amisville, Va.
Leland U. Fortner '51 '56, Kennewick, Wash. *Beta Theta Pi*
A. K. Hottle '51, Eugene.
George E. Knowles '51, Vancouver, Wash.
Carl W. Petersen '51, Camano Island, Wash.
Rolland L. Boughman '52, Portland.
Harland C. Buhler '52, Honey Brook, Pa.
Dorothy Pease Dozier '52, Seattle, Wash. *Alpha Xi Delta*
Edmund A. Harrington '52, Richland, Wash.
Robert L. Jensvold '52, Camas, Wash. *Alpha Tau Omega*
Lloyd R. Johnson '52, Sacramento, Calif. *Alpha Sigma Phi*
Victor W. Rogers '52, Ashland.
Yale W. Rohlf '52, El Dorado Hills, Calif. *Phi Delta Theta*
Henry Gil Campbell '53, Eugene.
Austin J. Christensen '53, Springville, Utah.
Eugene C. Coan '53, Kirkland, Wash.
Leonard G. Conkling '53, Portland. *Sigma Nu*
Berkeley L. Davis '53, Adams. *Phi Gamma Delta*
George C. Frisbie '53, Houston, Texas. *Sigma Nu*
Donna Abbott Fullhart '53, Gardiner. *Chi Omega*
Robert L. Fullhart '53, Gardiner. *Theta Xi*
Lawrence W. Hartley '53, Martinez, Calif.
Mary Morlan Heinrich '53, Corvallis.
Orval P. McCullough '53, Prineville.

PASSINGS | ALUMNI

Melvin D. Miller '53 '61 '70, Perkins, Okla.
Ward C. Sherman '53, Springfield. *Phi Sigma Kappa*
Mary Rawlings Bensel '54, Salem.
Robert E. Harris '54, Redwood City, Calif. *Sigma Nu*
Benjamin F. Magill '54 '60, Independence. *Phi Sigma Kappa*
Allan C. Harwood '54, Portland.
John M. Pierovich '54, Macon, Ga.
Lawrence P. Rogoway '54, La Quinta, Calif.
Donald K. Denman '55, Medford. *Phi Delta Theta*
Charles J. Forslund '55, San Ramon, Calif. *Tau Kappa Epsilon*
Billie Hargrave Majors '55, Lake Oswego. *Kappa Alpha Theta*
Janice Riches McIlroy '55, Dupont, Wash. *Sigma Kappa*
Earl L. Senger '55, Monroe, Wash.
Holly Roberson Bailey '56, Kalama, Wash. *Gamma Phi Beta*
Robert G. Billson '56, Redding, Calif. *Phi Kappa Tau*
Donna Dixon Gift '56, Kneeland, Calif.
Oliver Bryant Jackmond '56, Keizer. *Alpha Sigma Phi*
Robert I. Kerr '56, Santa Fe, N.M. *Phi Delta*

Theta
Barbara Hutchinson McGowan '56, Salem. *Gamma Phi Beta*
Lyman C. Oelrichs '56, Red Bluff, Calif. *Theta Xi*
James F. Rice '56 '73, Central Point. *Theta Chi*
Robert L. Shepard '56, Thermal, Calif.
Barbara J. Christensen '57, Clackamas.
J. Michael Finnis '57, Victoria, B.C., Canada
Cynthia VanHook Gilbert '57, Placentia, Calif.
Forrest M. Gist '57, Newberg. *Phi Kappa Tau*
Donald C. Hanson '57, Walla Walla, Wash.
Donald J. Hearing '57, The Dalles.
Donald R. Hill '57, Saint George, Utah.
Jerry Thomas Johnston '57, Cottonwood, Ariz.
James S. Long '57 '58, Roseburg. *Alpha Gamma Rho*
Robert W. Riggert '57, Tillamook. A founding member of the Beaver Club, he was on its board for 33 years, served on the OSU Alumni Association board for eight years and was on the Athletic Advisory Committee for seven years. He received the Martin Chaves Lifetime Achievement

Award in April 2006. *Phi Delta Theta*
Richard N. Smith '57, Sacramento, Calif.
Donald G. Bergam '58, Salinas, Calif. *Alpha Kappa Lambda*
Robert C. Esse '58, Northfield, Minn.
E. Ted Glasgow '58, San Mateo, Calif. *Delta Tau Delta*
Milton H. Gnos '58, Lincoln City.
Larry P. Hail '58, Arlington, Texas. *Alpha Tau Omega*
Ann Sektnan Johnson '58, Lake Forest, Ill. Contributions in her name may be made to the Music Department at *osufoundation.org*. *Kappa Kappa Gamma*
Mary Glenn Mason '58, Los Altos, Calif. *Pi Beta Phi*
Douglas K. Moore '58, Modesto, Calif.
James F. Simpson '58, Portland.
Julian R. Taplin '58, Wilmington, Del.
Judith Muirhead Ballew '59, Post Falls, Idaho. *Sigma Kappa*
Ryland K. Ewart '59, Boise, Idaho.
Richard L. Larkin '59 '64, Sweet Home.
Robert A. Leaf '59, Menlo Park, Calif.
Dorothy Reynolds Peckham '59, Horseheads, N.Y. *Alpha Xi Delta*
Ronald A. Stephens '59 '73, Richland, Wash. *Phi Sigma Kappa*

One consistent Beaver fan

Excerpted from a story by Josh Worden in The Daily Barometer.



When Hawaiian Marvin Yonamine was attending Oregon State from 1982 through 1986, he promised his friends that if the OSU football team — which had finished every season since 1970 with a losing record — ever became good again, Yonamine would wear OSU clothing every day for the rest of his life. Yonamine renewed his promise before the 2001 Fiesta Bowl, in which OSU dominated

Notre Dame, and Yonamine made good on his pledge.

"I actually don't remember a day when he wasn't wearing an OSU shirt," said his daughter Amber, an OSU student. "Sometimes he even wears an OSU cap, shorts and flip-flops as well."

Yonamine's other daughter Rachel also attends OSU and his son's application was recently approved. Yonamine has accumulated more than 130 OSU shirts, including the polo shirts he wears to work, plus OSU-related shorts and other articles.

"Every day I open up my drawer and I say, 'What do I want to wear today?'" Yonamine said. "I pick out something. I go, 'Cool, it's an Oregon State shirt.' I'm never disappointed with my attire."

Yonamine, a middle school teacher, grew up in Wai'anae, a small town in O'ahu, and visited OSU as a child when his father was getting his master's degree in Corvallis. Yonamine's first taste of OSU sports was a men's basketball victory in Gill Coliseum, when coach Ralph Miller and the Beavers took an 82-75 win over Weber State on Dec. 20, 1971. His first impression of Corvallis stuck with him.

"I was hooked," he said. "My dad lived in an apartment in Corvallis closer to downtown by the train tracks. There was an apple tree outside the window. Being from Hawaii, I had never seen an apple tree in my life. I was in awe ... I fell in love with Corvallis in 1971."

He would eventually meet his wife-to-be, fellow Beaver Laurie Sasaoka Yonamine '87, while waiting for a shuttle to OSU from the Eugene airport. And even through the lean years, before he had to make good on his pledge, he remained a loyal Beaver. Rachel Yonamine recalls that as a child, "When I heard my dad scream, I thought he got hurt, so I would frantically run to help him only to find out he was screaming because he was watching some type of OSU game and the Beavers scored." (Photo courtesy Kapolei Middle School)

PASSINGS | ALUMNI

Edward F. Van Zandt '59, Federal Way, Wash. *Pi Kappa Phi*
Bonnie Craddock Ward '59, Richland, Wash. *Alpha Phi*
Kenneth E. Fisk Jr. '60, Kingman, Ariz.
Dennis P. Greenwood '60, Lafayette, Calif. *Sigma Chi*
Norman Jerry Yergen '60, Highlands Ranch, Colo.
Dr. Eldon W. Younger '60, Corvallis. *Sigma Alpha Epsilon*
Dr. William E. Aubry '61 '63, San Diego, Calif. *Delta Tau Delta*
Judith Coleman Bonte-Friedheim '61, Dachsberg, Germany. *Kappa Alpha Theta*
Dora Bartlett Davis '61 '65, Corvallis.
Morris D. Jensen '61, Portland.
William Moser '61, Denio, Nev.
James R. Quinn '61, Beaumont, Calif.
Carolyn Blair Wyatt '61 '66, Safford, Ariz.
Gary A. Bliven '62, Salem.
Cecelia McDonnell Carroll '62, Hillsboro.
Carolyn Brissenden Harris '62, Bellevue, Wash.
Tiit Heinsoo '62, Rancho Mirage, Calif. *Sigma Chi*
Gloria Gonyer Mann '62, Parma, Idaho.
Gilbert L. Roberts '62 '63, Albany. *Sigma Pi*
Thomas F. Wieskamp '62, Livermore, Calif.
Teri Byland Dean '63, Forest Grove. *Alpha Gamma Delta*
Danford A. Moore '63, Port Orchard, Wash. *Chi Phi*
Willis D. Mummey '63, Kenmore, Wash.
Fred E. Quale '63, Corvallis.
Robert J. Young '63, Morgantown, W.Va.
Richard W. Baldwin '64, Granbury, Texas.
W. Linn Hunt '64, Todd, N.C.
Horst G. Taschow '64, Regina, Saskatchewan, Canada.
John A. Belkengren '65, Key West, Fla.
William Allan Hall '65, Madera, Calif. *Sigma Chi*
Nancy Zeh Holder '65, Sisters.
Peter A. Lossner '65, Lake Oswego. *Pi Kappa Phi*
Carol Ewing Miller '65, Oregon City. *Gamma Phi Beta*
Herschel W. Pendell '65 '70, Salem.
Rosalie Collins Raudsep '65, Waldport. *Delta Zeta*
Ray O. Burwick '66, Alexandria, Ky.
Denis R. Camp '66, Colorado Springs, Colo. *Theta Chi*
Morley S. Moran '66 '68, Albany.
Charles W. Pratt '66, Olympia, Wash.
Robert D. Burton '67, Albany.
Richard C. Small '67, Bellingham, Wash.
Charles E. Carlson '67 '71, Vale.

Richard L. Bagger '68, Albion, Neb.
William I. Beliveau '68, Kent, Ohio.
Patsy Brennen Chester '68, Albany.
Lonnie N. Jolma Jr. '68, Beaverton. *Alpha Sigma Phi*
LeRoy C. Lewis '68, Idaho Falls, Idaho.
Ernest F. Paterson '68, Wallowa.
Stanley W. Power '68, Corona, Calif.
Lawrence F. Wildman '68, Salem. *Zeta Psi*
Ray Tom Yasui '68, Hood River.
Mark E. Benard '69, Sacramento, Calif.
William E. Reece '69, Sierra City, Calif.
Jayna Jones Riner '69, Pleasant Hill, Mo. *Kappa Delta*
Jane Childs Stromquist '69, Beaverton.
Judith A. Baker '70, Salem.
Darryl G. Edwards '70, The Dalles. *Kappa Sigma*
Lewis L. Kingham '70, Forest Grove.
Jill Williams Hummels '71, Vancouver, Wash. *Alpha Delta Pi*
Cynthia Vollman Leeds '71, Cottage Grove, Wis.
Harlan F. Reynolds Jr. '71 '73, Salem.
James A. Coyle '72, Sublimity.
Douglas Kamo '72, Vale. *Chi Phi*
Joseph L. Ernst '73, Orangevale, Calif.
Margarita Noguera Noguera '73, Laguna Woods, Calif.
Ralph E. Schlappi '73, Green Valley, Ariz.
S. Lucille Boyd Schneider '73, Dallas.
John Deurwaarder '74, Vancouver, Wash.
Howard D. McLaughlin '74, Goodyear, Ariz.
Deborah Clark Russell '74, Eagle Point. *Kappa Alpha Theta*
Gordon Fritz '75, Corvallis.
Dean M. Heath '75, McMinnville.
Floyd R. Hunsaker '75, Damascus.
Carol Stebner Squire '75, Beaverton.
JoNell Sayers Shepard '76, Payette, Idaho.
Mark C. Weiler '76, Saint Petersburg, Fla.
Those who would like to make a donation in his honor may consider a gift to the OSU Air Force ROTC Weiler Scholarship Fund, osufoundation.org.
Jon A. Williams '76, Lakeside.
Charles A. Bigej '77, Oregon City. *Delta Tau Delta*
Lawrence J. Burgess '77, Pacifica, Calif.
John H. Weis '77, Salt Lake City, Utah.
Edgar L. Andreas '78, Lebanon, N.H.
In 1992, he was the lead American meteorologist on the joint American and Russian Ice Station Weddell, which was the first research ice station to be established on drifting sea ice in the Antarctic. He was known as an international expert on sea spray in high wind conditions.

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He's nervous and passionate about education

For real estate executive and education innovator Matt Spathas, the son of an OSU-trained entrepreneur and an alumnus of the same high school that produced Linus Pauling, the trail to Corvallis was blazed early on.

"My dad told me, 'You can go to any college you want, but the only one I'll help you pay for is Oregon State,'" said Spathas, who earned a business degree at Oregon State in 1980, four years after graduating from Washington High in Portland. "I'm really grateful for the education I received."

Spathas, who received the 2015 College of Business Distinguished Service Award, is one of three managing principals at San Diego-based SENTRE Partners. The seeds for his interest in fresh approaches to education were sown a decade ago during an overseas trip organized by Realcomm Conference Group, LLC, a worldwide research and event company that focuses on technology, innovation and real estate operations.

"We traveled to Asia to see the best of the best of real estate and also included schools on that tour," Spathas said. "I came back from China shaking, scared for the next generation of our kids. There are a billion people competing for our jobs — they want what we have and they want it bad. There, I saw students motivated by fear or desire; here, I wasn't seeing that. I was seeing kids on the couch playing PlayStation; they just didn't have the drive or maybe they weren't engaged."

"What drove me was, this generation can't really be motivated by fear or through the desire for a better life — we have to engage this generation by finding their passion," Spathas said. "That's the secret sauce in the transformation of public education to get kids ready to compete in this truly global economy. I'm really passionate about public education. I'm nervous about it, but passionate."

A frequent speaker on the topic "Engaging, Empowering and Preparing Students for the 21st Century," Spathas was on the founding board for e3 Civic High, a charter school housed inside the new San Diego Public Library.

"It's the start of rethinking what high school can be," he said. "We're starting to rethink this vertical stack called buildings so things aren't siloed, like having a university in with a K-12 school, or a public library or social services or portable teacher housing."

"In my generation you went to school to get answers, but now the answers are in hand," Spathas said. "Now it's more about what the question is and getting critical thinking skills. We're trying to reinvent the landscape of what high school education can look like."

Higher education needs reinvention as well, said Spathas, who cites as an example San Francisco-based Minerva. Affiliated with the Keck Graduate Institute of Applied Life Sciences, Minerva offers a 21st-century bargain price of \$10,000 a year for undergraduate tuition by cutting overhead costs such as tenured professors — and even campuses.

Meanwhile, at Spathas' alma mater, the OSU College of Business and its new dean, Mitzi Montoya, are creating new programs and fine-tuning established ones to help students turn entrepreneurial ideas into jobs and successful businesses, often before they graduate (see story, page 26).

"I don't think things are changing fast enough but there are pockets of change," Spathas said of higher education in general. "Napster broke the record industry. Without that, we would not have 99-cent songs on iTunes. In education that disruption hasn't happened yet." 🍌

— Steve Lundeberg



The Spathas family includes four Beavers. From left to right are Andrew Spathas, Matthew Spathas '10, Kristen Nelson Spathas '80, Kendall Spathas '14, Mark Spathas and Matt Spathas '80. (Photo courtesy Spathas family)

PASSINGS | ALUMNI

Kent D. Miller '79, Elkton, Fla.
Daniel A. Zwicker '79, Salem. *Tau Kappa Epsilon*
Cynthia Franken Frankenbach '80, Fairbanks, Alaska.
Margarita Garcia '81, Salem.
Michael S. McLaren '81, Sacramento, Calif.
Jon E. Walker Jr. '81, Corvallis.
Samuel John Buist Jr. '82, Makawao, Hawaii.
Kevin P. Olender '82, Wyandotte, Mich.
Carla Haff Wilson '82, Klamath Falls.
James R. Hansen '83, Sherwood.
David W. Loch '83, Salem.
Richard W. Noland '83, Salem.
Karen D. Seibert '84, Portland.
Stephen D. Sarantakis Jr. '85, Long Beach, Calif.
Mark E. Lewis '86, Eugene.
Herbert G. Moran III '86, Varese, Italy.
Shelee Moore O'Dell '86, Milwaukie.
Terri L. Horton '87, Detroit, Mich.
Thomas S. Scheele '87, Eugene.
Michele Houston Taie '90, Camas, Wash.
Adrian H. Teo '90, Spokane, Wash.
Ann L. Fauss '91, Roseburg.
Scott E. McComb '92 '97, Chandler, Ariz.
James A. Cunningham '93, Moscow, Idaho.

Marcus T. Strickler '93, Castle Rock, Colo.
Sandra M. Taylor '93, Hillsboro.
Margaret Retterath Thompson '93, Merrill.
John L. Feskens '94, Salem.
John "J.C." Callahan '95, Corvallis.
Sean A. East '96, Corvallis.
Lyle A. Rockler '97, Venice, Fla.
Andrew M. Kalamaris '01, Tualatin.
Rosemary K. Burbee '02, Seal Rock.
Eric J. Meyer '02, Medford.
Carl E. Olsen '03, Salt Lake City, Utah.
Kyle B. Lothar '04, Lombard, Ill.
Shiloh F. Sundstrom '09, Corvallis. He was a PhD student in geography.
Cristina N. Himka '13, Arlington, Wash.

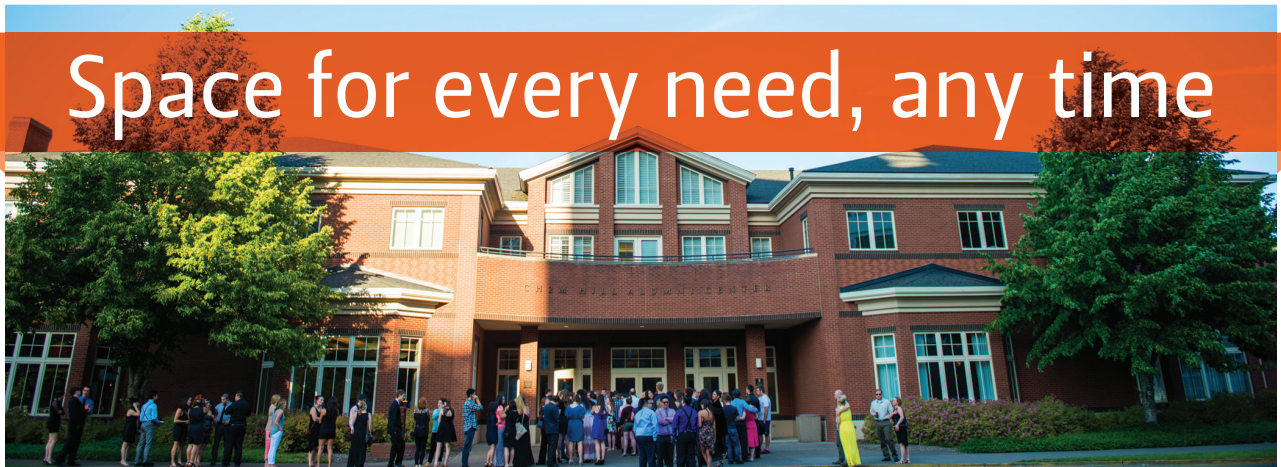
PASSINGS | FACULTY AND FRIENDS

John W. Ackley, Rock Island, Ill.
Marian H. Addison, Bellevue, Wash.
Bob Alexander, Dufur.
Dr. Arnold P. Andres, Vancouver, Wash.
Ruth Lewman Arthur, Indianapolis, Ind.
Gary Babcock, Salem.
Susan J. Backstrom, Bend.
James R. Baggett '56, Corvallis. A professor of horticulture and seed breeder,

PASSINGS | FACULTY AND FRIENDS

his prolific research resulted in many now-common varieties of snow peas, delicata squash, bush beans, sweet corn and many varieties of tomatoes planted in gardens nationwide. He introduced and improved literally dozens of different vegetables in the course of his career. In 1996 the Baggett-Frazier Vegetable Breeder Professorship was created in his honor.
Mary L. Bailey, Fair Oaks, Calif.
Fred J. Baillie, Gresham.
Donald M. Barnes, Readlyn, Iowa.
John R. Bell, Corvallis.
C.V. "Ben" Bennett, Eugene. He was a professor in theater arts, directed plays, and served as director of the theater and chairman of the Department of Speech Communication. He was among the co-founders of the Valley Round and Reader's Theaters in Corvallis.
Bill J. Benriter, Murray, Ky. He served as director of University Housing Residential Dining Services from 1975-1982.
Donald H. Bergis, Palm Springs, Calif. *Phi Gamma Delta*
William D. Bishop, Corvallis.
Craig Bissett, Tigard.

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PASSINGS | FACULTY AND FRIENDS

Alice M. Block, Corvallis. She served as scholarship chair, program co-chair, secretary, president and historian at the OSU Folk Club Thrift Shop.

Thomas B. Boardman, Portland. *Kappa Sigma*

Betty Parry Bowen, Portland. *Kappa Alpha Theta*

Donald M. Bowman, Portland. From 1974 to 1987 he was an OSU professor of Continuing Education and administered a business training program called Endeavors for Excellence in 11 western states and Europe.

Jim Boyd, Junction City.

Doris Brandon, Tempe, Ariz.

Thomas C. Branstetter, Pendleton.

Marilyn Brinton, Prineville.

Francis W. Brugman, Pasadena, Calif. *Phi Delta Theta*

Sharyn L. Brunkal, Salem.

C. "Gene" Buckley, Newberg.

Robert C. Calfee, Stanford, Calif.

Therese Campbell, Eugene.

Carolyn Randol Cancilla, Huntington Beach, Calif. *Alpha Xi Delta*

A. E. Carlson, Albany.

Swannie A. Carlson, Corvallis. She was a longtime volunteer at the OSU Folk Club Thrift Shop.

Donna Castleberry, Oroville, Calif.

Vivien Chrostowski, Corvallis.

Robert H. Church, Gresham.

Alvin Clark, The Dalles.

Ethel H. Clingings, Albany. She worked for 20 years in the food service department.

Winifred S. Coleman, Corvallis. She worked in food service at OSU for 20 years.

Connie Johnson Colley, Eugene.

Emma Conlee, Portland.

Susan Hall Connall, Coos Bay. *Sigma Kappa*

Earl E. Corum, Vancouver, Wash.

Frank R. Cross, Corvallis. He taught at OSU from 1969 to 1988 and served as director of the Division of Educational Foundations and Special Services. He was named Outstanding Faculty Member of the School of Education in 1973 and received the Elizabeth P. Ritchie Award in 1977.

William H. Cruikshank, Kent, Wash. *Kappa Sigma*

William H. Davidson, San Diego, Calif.

Connie Thompson Davis, Sweet Home. She worked as an office specialist at OSU.

Lois M. Davis, Corvallis.

Robert L. DeLong, Boise, Idaho.

Joseph F. Delwisch, Tangent.

Maryanne Dengler, Corvallis.

Pauline Dobrkovsky, Lebanon.

Edna Duncan, Lakeside, Mont.

Clara M. Dyrness, Albany.

Gloria Corless Eckley, Woodburn. She was an executive secretary at Wasco County Extension.

Walter Edwards, Kennewick, Wash.

Nadeen Elliot, Prosser, Wash.

Larry G. Enochs, Leawood, Kan. He was professor and chair of the Department of Science and Mathematics Education from 1999 to 2003, then continued as a professor of science education until he retired in 2011.

Richard J. Flanagan, Gresham.

Clara D. Fleischman, Sandy.

Jerald E. Fox, Corvallis.

Bruce Fraser, Canby.

Kathryn Frischknecht, Corvallis

Jackie Fritz, Alamo, Calif.

Eugene D. Frost, The Dalles.

Richard Geary, Portland.

Nancy L. Gebo, Beaverton.

Beth L. Gifford, Keizer.

Marilyn Hein Given, Portland.

Julia E. Gray, Corvallis. She worked as a night nurse in the OSU infirmary for more than 20 years and was 105 years old at the time of her death.

Theresa B. Grismer, Corvallis.

Aneta G. Hadley, Santa Rosa, Calif.

Judith Hague Hadley '83 '85, Salem. She was a psychologist in the student health center.

Allen M. Hasel, La Grande.

Evelyn Hatton, North Fort Myers, Fla.

Ehud Havazelet, Corvallis. Two-time winner of the Oregon Book Award, he was an assistant professor from 1989 to 1999 and helped found the MFA program in creative writing.

Mark A. Hector, New Market, Tenn.

Jacob W. Hendrickson, Rancho Mirage, Calif. *Phi Gamma Delta*

Thomas R. Heresco, Corvallis.

Jerry R. Hirschberger, Portland. *Sigma Alpha Epsilon*

Velma M. Hoiseth, Salem.

Alma A. Howe, Camas, Wash.

Beverly E. Huitt, Dundee.

Glenn E. Huitt, Dundee.

Genevieve Murray Hupe, Mill Creek, Wash. *Alpha Gamma Delta*

Richard F. Irvin, Corvallis. He enjoyed teaching many physical education classes, but his main love was teaching the athletic training program.

Barbara M. Jablonn, Pleasanton, Calif.

E. J. Jackson, Beaverton.

Joann P. Jones, Albany. She worked in the admissions office, the School of Pharmacy and finally the College of Veterinary Medicine as an accounting technician, before retiring in 1998.

Pat Karamanos, Portland.

V. Ed Kasperek, Corvallis. In 1948 he joined the OSU Physical Plant and was employed 35 years as an equipment operator, helping with transport of materials, construction, installation maintenance and demolition on and off campus. He was nicknamed "Buck" for his heavy lifting and carrying. Contributions in his name may be made to osufoundation.org.

Ronald W. Keil, Corvallis.

Lucille M. Kelly, Beaverton.

Vernon L. Kelly, Beaverton.

Donna Paulson Knodell, Portland. *Alpha Delta Pi*

John S. Komp, Eden Prairie, Minn.

Sharon K. Krueger '90, Corvallis. She was research clinical coordinator for the Linus Pauling Institute and Environmental Health Sciences Center as well as the research coordinator for the OSU Superfund Research Center administrative core.

Maxine Labbe, Gresham.

Ernest A. Lane, Happy Valley.

Jack D. Lattin, Corvallis. During his 40-year career at OSU he was curator of the Entomology Museum, directed the Science Honors Program and established the University Honors Program (1966). He later directed the Systematic Entomology Laboratory and was acting chair of the Department of Entomology, associate dean of the College of Science (1982-87) and named Rice Professor of Systematic Entomology (1996). Contributions in his name to the Valley Library can be made at osufoundation.org.

Mary Loughton, Napa, Calif.

Marjorie E. Lee, Monroe.

Norman L. Lee, Happy Valley.

Marian Barry Leidig, Carmel, Calif. *Delta Delta Delta*

Diana Dibble Leitch, Hockessin, Del.

Barbara J. Lewis, Green Valley, Ariz.

Arthur B. Lind, Lake Oswego. *Phi Gamma Delta*

Edwin G. Luebbert '76, Corvallis. He worked 30 years as a systems analyst for the Oregon State System of Higher Education.

Alan Luethe, Portland.

Portia F. Mardock, McMinnville.

PASSINGS | FACULTY AND FRIENDS

Elizabeth B. Marsh, Riverside, Calif.

Gildo J. Martini, Clackamas.

Marie L. Mascotte, Albany.

Ursula Hulbert McCauley, Olympia, Wash.
Kappa Kappa Gamma

Thomas C. McClintock, Corvallis. He joined the history department in 1959, served many years as department chair and was associate dean of the College of Liberal Arts (1985-89). He also served for more than 20 years on the Oregon Geographic Names Board and was a member of the Oregon Board of Education, the Corvallis-OSU Symphony Board and the OSU Faculty Senate. Contributions can be made to the Thomas and Patty McClintock Symphony Scholarship Fund at osufoundation.org.
Delta Tau Delta

Anita McEldowney, Eugene.

Craig M. McEldowney, Corvallis.

Gerald E. McEldowney '80, Corvallis. He was a defensive back in the 1972-74 seasons for Coach Dee Andros and a graduate assistant coach from 1975-76.

Winnifred McFarland, Corvallis.

Kathryn "Frosty" Merrifield '73 '90, Corvallis. She was a senior faculty research assistant in the Department of Biology and Plant Pathology. Donations honoring her may be made to the osufoundation.org.

Edward Merriman, Pendleton.

Karen Cloninger Miller, Wood Village.

Tammy Tamashiro Miller, Vancouver, Wash.

Velvo Lucas Miller, Cheney, Wash. *Alpha Chi Omega*

Katherine V. Mooers, Sherwood.

Robert Moore, Tillamook.

Marion Wuner Myers, Virginia Beach, Va.
Kappa Kappa Gamma

Kaare Ness, Shoreline, Wash.

Charles C. Nicholson, Beaverton.

Thomas Niedermeyer, Portland.

Marilyn Hoare Nielsen, Portland. *Kappa Alpha Theta*

Edward K. Nordness, San Carlos, Calif.

Keith F. Oles, Colorado Springs, Colo. He was a professor of geology and received many awards for his expertise and excellence in teaching and advising.

Thelma F. Phelps, Lincoln City.

Verlyne P. Phillips, Corvallis.

Gayle Post, Wilsonville.

E. J. Powers, Gresham.

Dorothy E. Radliff, Hood River.

Gary L. Reed, Hermiston. He directed the Hermiston Agricultural Research and

Extension Center from 1985 to 2005.

Virginia Reed, Newport Beach, Calif.

Jack L. Rettig, Corvallis. He taught in the Department of Business and Technology from 1961 to 1986 and served as director of the MBA program. Contributions to the Jack Rettig Scholarship Endowment Fund can be made at osufoundation.org.

Kimberly A. Rogers, Corvallis.

Beverly E. Scherffius, Eugene.

Eion G. Scott, Hillsboro.

J. "Hudson" Shake, Fruitland, Idaho.

Violet Klobas Shepard '56, Salem. She was an Extension Agent in Wheeler County.

Alpha Gamma Delta

John B. Siddall, Asheville, N.C.

David R. Siemens, Shoreline, Wash.

Harriette R. Small, Corvallis.

Brian T. Smith, Tualatin.

Helen E. Spinney, Philomath. She worked in the food service department at OSU.

Ron Stevens, Keizer.

Ardyce Swift, Terrebonne.

Tom Swisher, Monroe.

Peter W. Thompson, Clovis, Calif.

Howard Trachsel, Keizer.

Robert D. Traverso, Canby.

Henry F. Trione, Santa Rosa, Calif.

Richard H. Trumble, Prosser, Wash. *Pi Kappa Phi*

Katherine M. Vice, San Juan Capistrano, Calif.

Gloria M. Wallace, Corvallis.

Jerry Weeks, Portland.

Joan Y. Widmer, Albany.

Jerry Wilke, College Place, Wash.

Richard T. Wilkinson, Heppner. *Sigma Phi Epsilon*

Wilbur R. Willard, Portland.

Stanley D. Williams '58, Winchester.

Bill Winkler Jr., Corvallis. He began his career as the men's swimming and diving coach and would go on to spend the next 50 years working out of various rooms in Langton Hall. He developed the Faculty Staff Fitness Program in the mid-1980s and, although he retired several times, he was often seen walking on campus by those who happened to be up and about at 6 a.m. Memorial contributions may be made to the Bill and Judy Winkler Fund for Positive Lifestyles and Healthy Aging at osufoundation.org.

Eugene P. Winters '50, Beaverton. He was a faculty member in the College of Agriculture for nearly 30 years.

Zacharias C. Wood, Baton Rouge, La.

Dorothy Woodward, Folsom, Calif.

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ANSWERS (Questions on page 12)

1. True. As members of the order Rodentia, squirrels are related to many diverse families and species of rodents, including the American beaver, Oregon's state mascot (and the inspiration for our fearless Benny, who is a species unto himself), as well as the typical mouse you'd find in your house.
2. A, C and D. Squirrels, marmots and chipmunks are from the same family. Pikas are related to rabbits and shrews are close relatives of moles.
3. 4 and 2. The four native tree squirrel species are the western gray, Douglas, American red and northern flying. The non-natives are the Eastern gray squirrel and Eastern fox squirrel. The aggressive Eastern gray squirrel was introduced to Oregon in 1918 and can replace native species in a neighborhood within five to 10 years. The Eastern fox squirrel has become the most common backyard squirrel in the Portland Metro area.
4. B. The northern flying squirrel (which uses its skin folds to glide between trees) is generally only active at night and is rarely seen. West of the Cascades, these nocturnal squirrels have dark brown fur; eastern varieties are lighter brown in color.
5. The California ground squirrel, which is found throughout the Western states.
6. The squirrels with stripes on their faces are called chipmunks. They make a chipping sound and stuff their cheeks with food to take back to their burrow.
7. Incisor teeth (often tinted 'Beaver orange' – see #1 above), which are sharpened by constant gnawing.
8. Yellow-bellied marmot. The males weigh about 10 pounds and can grow to 30 inches.
9. A nest constructed by a tree squirrel is called a drey. Also, in very cold environments the squirrels have been observed using underground nests, and they're opportunistic enough to share our homes and buildings when they find access to building interiors and attics. Tree squirrels can descend a tree head-first. They do so by rotating their ankles 180 degrees so the hind paws are backward-pointing and can grip the tree bark.
10. B, A. Ground squirrels and marmots primarily feed on the leaves of grasses and forbs (herbaceous plants like wildflowers) while tree squirrels, chipmunks and flying squirrels primarily feed on nuts, fruits, plant buds and fungi.



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Pre-med students Lena Ferguson (right) and Christy Huss (left) were awarded the Fred and Mary Brauti scholarship and enjoyed meeting them on campus in February.

YESTERDAY'S BEACH HOUSE, TOMORROW'S PHYSICIANS

When Dr. Fred Brauti '49, a retired radiologist, and his wife, Mary, decided to simplify their lives, they knew it was time to sell their cherished but seldom-used Gleneden Beach condo.

The couple contacted the OSU Foundation to learn about their options for turning the vacation home into a charitable gift. They decided to give the property outright—eliminating capital gains taxes, freeing them of the responsibility and expense of maintaining two homes, and providing a significant tax deduction.

Proceeds from the sale will expand the Fred and Mary Brauti Pre-Medical Scholarship Fund, which they established in 2011. “We weren’t going there very much,” Dr. Brauti said. “This was an easy way to build up the scholarship and help Oregon State students on their way to successful careers in medicine.”

Would you like to learn more about making a gift of real estate that will create your legacy at OSU?
Contact us for a confidential conversation.

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