Napolitano Announces New UC Global Food Initiative

UC president launches a new kind of Food CORPS focused on healthier ways to grow and distribute food

by Kris Lovekin

More than a century of agricultural research at UCR has helped feed the human population.

When a pest invades California and starts killing important crops, it is Riverside scientists who find the natural enemy, raise it and release it, in concert with the California Department of Food and Agriculture.

When far-flung countries are fighting drought and flood, crops developed in Riverside can withstand the weather.

A campus community garden keeps UCR students connected to the land, and provides locally grown fruits and vegetables for students and others. And every piece of citrus in a California supermarket has a connection back to the campus, because Riverside hosts the budwood and genetic material for citrus growers around the world.

“Keep in mind, the issue of food is not just about what we eat,” said UC President Janet Napolitano. “It’s about delivery systems. Climate issues. Population growth. Policy. All of these and more come into play when you begin to think about the colliding forces that shape the world’s food future.”

On July 1, Napolitano promised a laser focus from the 10-campus University of California on a new UC Global Food Initiative, an issue with global implications.

The campuses in Riverside, Berkeley and Davis serve as a hub for Agricultural and Natural Resources, the University of California applied science that has advised and informed California’s growers for a century. But each of the 10 campuses, as well as the national laboratories, have a piece of the food puzzle.

“This initiative will help us address food security issues on our own campus, in our community and across the world,” said Peggy Mauk, a cooperative extension specialist who is director of UCR’s Agricultural Operations, which covers 440 acres on campus and another 500 acres in the Coachella Valley. She has heard growers ask for new certificate programs and an agribusiness degree. She is working to provide UCR-grown crops to campus restaurants as well as schools in the Riverside Unified School District and local food banks.
“Our research has been going on for generations, but what this initiative does is ask us to knit it all up with the local community, local restaurants, even our local students. It’s totally doable in my opinion, given some time and some resources and some good partnerships,” Mauk said.

One of the tensions of the UC Global Food Initiative is that food means a lot of things to different people, from growing organic greens in the backyard to large industrial production of soy and corn and beef shipped to the world.

“People seem to be so afraid of GMO foods,” Mauk said, “but on an industrial-scale operation, the alternative to GMO crops is sometimes heavy pesticide use to kill corn earworm or cotton bollworm.”

A lecture series is one part of the UC Global Food Initiative, which will serve as a place to hear from a variety of different perspectives about how to increase the sustainability and health of the food supply. “The UC is a place to have that debate,” Mauk said.

The UC Global Food Initiative grows out of a commitment by Napolitano and the 10 UC campus chancellors to work collectively to intensify and expand the efforts of the world’s premier public research university to support healthy eating, sustainable agriculture and food security.

The initiative’s reach, Napolitano said, will be both external and internal – on campuses, among faculty and students, in research labs and in communities through UC outreach. It will build on efforts already underway. It will identify best practices and share them widely within the UC system, California, and, ultimately, the nation and the world.

As one of her first actions, Napolitano announced the funding of three $2,500 President’s Global Food Initiative Student Fellowships to be awarded on each campus to undergraduate or graduate students. The fellowships will fund student research projects or internships.

Public research universities are uniquely positioned to tackle audacious global challenges, UC President Janet Napolitano said in a keynote speech to the Association of Public and Land-grant Universities. She highlighted UC’s new Global Food Initiative and cited examples from Berkeley Lab (Darfur stove), UC Davis and UC Riverside (flood-tolerant rice), and UC Santa Cruz (farm and garden). Read more: www.universityofcalifornia.edu/news/uc-president-highlights-international-research-aplu-speech.

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**New UCR Health Family Medicine Center Opens in Palm Springs**

*Seven physicians began treating patients July 1; residency training program to start in July 2015*

By Kathy Barton

UCR Health unveiled the headquarters of its new family medicine center in Palm Springs, which will immediately expand access to primary medical care in the Coachella Valley and, beginning July 2015, will be the hub for a new residency training program in family medicine.

The 13,000-square-foot facility is the result of a multiyear partnership between the UCR School of Medicine, Desert Regional Medical Center and First Choice Physician Partners, with support from the Desert Healthcare District. More than 100 community members attended the grand opening on June 25.

“Our focus is on creating a patient-centered medical home that will improve health care access and strengthen primary care in the Coachella Valley,” said Dr. Gemma Kim, residency program director and a
faculty member in the School of Medicine. As part of the program, seven faculty physicians are already onsite providing primary care to the community. Beginning in the summer of 2015, they will be joined by the first cohort of physicians in the family medicine residency program.

“The opening of the UCR Health Family Medicine Center is an important first milestone in the commitment of the UCR School of Medicine to expand access to medical care in the Coachella Valley,” said G. Richard Olds, dean of the school and vice chancellor for health affairs at UC Riverside. When fully staffed with physicians and residents, the family medicine center will have the capacity to care for more than 30,000 patients, he said.

The program grew out of a need to address the significant physician shortage in the Coachella Valley. In some parts of the region, doctors are so scarce that there is only one for every 9,000 residents. “This new clinic is a game changer for Coachella Valley, laying the foundation for bringing new physicians to our area,” said Carolyn Caldwell, the CEO of Desert Regional Medical Center. The program will enroll eight residents each year, eventually reaching a total of 24 residents once it is fully operational.

The new headquarters building will meet educational and patient needs. It features more than 20 exam rooms, two procedure rooms, a triage room and a group counseling room. “Patients in the hospital will benefit,” said Caldwell. “As a teaching hospital, our physicians will have more than one set of eyes looking at their health issues and defining the best course of action based on the evidence.”

“This is a big deal. Like-minded people came together to create something incredible for this community,” said Michael Solomon, M.D., president of the Desert Healthcare District. Start-up of the program has been supported by the Desert Healthcare District, which in 2012 awarded a $5 million, five-year grant to the UCR School of Medicine to assist in establishing primary care services in the region, launch residency training and expand programs for Coachella Valley students interested in pursuing medicine as a career.

Patients of all ages will be treated at the UCR Health Family Medicine Center, from pediatrics to geriatrics. “With the opening of this new facility comes local access to some of the most up-to-date and brilliant new minds in health care,” Solomon said.

Also participating in the opening were several elected officials, including Riverside County Supervisor John Benoit and council members from Palm Springs and Cathedral City.

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**Nine Junior Faculty Receive National Recognition**

*In California, UC Riverside is ranked second in number of National Science Foundation CAREER awards received in 2013-2014*

By Sarah Reinhard

Nine researchers at UCR have been awarded National Science Foundation (NSF) CAREER grants. One of NSF’s most prestigious awards, the CAREER grant is targeted toward promising new faculty early in their careers, with the goal of providing stable support while they establish themselves as independent researchers and exceptional educators in their fields.

Only 600 such awards are given out each year among the more than 7,000 higher education institutions in the United States. With nine awards, UC Riverside is ranked second among universities in California for 2013-2014.

Each NSF grant includes an outreach/educational component that will seek to further educate local middle school, high school and community college students. The integrated outreach programs vary for each research-
er, and range from engineering microscopic building materials, to creating art through chemistry, to painting with light and nanoparticles.

The following researchers at UC Riverside have won the 2013-2014 CAREER awards:

**Huiwang Ai**

Huiwang Ai, an assistant professor of chemistry, is developing fluorescent probes to study cellular redox biology. Redox processes in biology are involved in such things as cell respiration and photosynthesis, as well as free radical reactions that can cause cell mutation. These processes are important physiological and pathological pathways and can be linked to a large number of diseases. Though important to understand, “these redox signaling molecules are difficult to study using existing techniques,” he said, so Ai and his co-workers discovered ways to selectively observe redox-active molecules in live cells. As part of this project, middle and high school students will be teamed with the Ai lab to study the problem. The first four students arrived this July. This five-year, $600,000 award will provide funding for three graduate students as well.

**Julie Bergner**

Julie Bergner, an associate professor of mathematics, will compare models for equivariant homotopy theories. “A homotopy theory refers to a collection of mathematical objects, or categorical structures, with equivalence between them,” she said. Using equivariant versions will allow her to incorporate more algebraic information into these widely used categorical structures. “This blending of ideas will bring together different areas of math and can then be applied in mathematical physics, manifold theory, and representation theory,” she added. The educational component of the grant is to organize a two-week summer workshop for mathematics majors who are transferring to UCR from community colleges, introducing them to topics from upper-division mathematics courses. The five-year, $450,000 grant will provide summer support for two graduate students.

**Philip Brisk**

Philip Brisk, an assistant professor of computer science and engineering, develops software tools to automate the design of “laboratories-on-a-chip” (LoCs). “These are integrated plumbing networks shrunk down to the micrometer scale and below ... that can automate things like DNA sequencing and drug discovery — processes that are costly and difficult right now,” he said. The design technologies that Brisk studies will lower costs and allow scientists to obtain these chips from a simple description. The grant will also support programs to teach students about the fundamentals of LoC technology, and will fund the event “Learning Computer Science through the Lens of Culture” — a workshop on computer science for both high school students and teachers in the Inland Empire. This five-year, $493,645 award will support one graduate student and three undergraduate students.

**Chia-en Chang**

Chia-en Chang, an assistant professor of chemistry and bioinformatics, will use computer modeling to investigate complex interactions among molecules, including proteins, enzymes and nanoparticles. “The association of two free molecules to form a complex is one of the most important processes in chemical and biological systems,” she said. To explore biomolecular binding, she will simulate interactions between atoms as well as their behavior in the larger system, using atomistic and multi-level coarse-grained simulations. The educational activities supported by this grant include seminars and summer courses to train students from local colleges, high schools and from UC Riverside in the field of computational chemistry. The five-year, $588,360 grant will support two graduate students and two undergraduate students.
Juhi Jang

Juhi Jang, an associate professor of mathematics, will investigate physically important phenomena, such as the collapse of stars or generation of vortices at the interface between two fluids, based on partial differential equations (PDE) approaches. “These are physical phenomena that can be challenging to study, and so the goal is to find a mathematical framework where these physical phenomena can be captured with an appropriate mathematical theory, using PDE methods,” she said. Educational and outreach activities associated with the grant include student research projects, one-to-one mentoring activities, course development, summer schools for undergraduate and graduate students, and interdisciplinary conferences. The five-year, $400,000 grant will support one to two graduate students and one undergraduate student per year.

Catharine Larsen

Catharine Larsen, an assistant professor of chemistry, develops new catalytic reactions to synthesize nitrogen-containing compounds under green conditions. “Forming the crowded central atom remains a serious challenge for chemists,” she said, and access to these unique molecules has the potential to combat human diseases. Larsen started “The Science of Art” series at the Riverside Art Museum to teach the science behind both creating and perceiving art, as well as inspiring low-income elementary school students to experiment with the chemistry involved in creating art. “By associating questions and logical challenges with play, these students are better equipped to succeed in earning advanced degrees in STEM fields,” she added. Larsen has a five-year, $600,000 award supporting two graduate students and four undergraduate students.

Lorenzo Mangolini

Lorenzo Mangolini, an assistant professor of mechanical/materials science and engineering, creates and processes novel materials – called bulk nanostructured materials – used to develop high efficiency/low cost devices with applications in sustainable energy production. “Bulk nanostructured materials can be made of grains smaller than 100 nanometers, with very interesting thermal transport properties,” he said. He will create the next generation of bulk nanostructured materials and decrease manufacturing costs for these devices that convert heat flux to electrical energy without any moving parts. Using support for this project, Mangolini will train U.S. Army veteran undergraduate students in hands-on research, and mentor both high school students and teachers in his lab. This five-year, $400,000 grant will support one graduate student and several undergraduates.

Khaleel A. Razak

Khaleel Razak, an assistant professor of psychology and neuroscience, will determine how auditory (or hearing) maps are formed in the auditory cortex of the brain, focusing on mechanisms that form neural connections. The brain contains many maps representing features of the sensory world, including visual, touch and auditory maps. These auditory computational maps underlie an animal’s ability to localize sound. “Precise sound localization using the auditory map can be a matter of life and death to some species,” he explained, as in nocturnal animals such as bats. Razak’s outreach combines undergraduate research, public seminars on bat behaviors and conservation, and technical seminars on echolocation and bat monitoring. The five-year, $866,902 award supports one post-doctoral scholar, two graduate students and three undergraduate students.

Ming Tang

Ming L. Tang, an assistant professor of chemistry, is working to link nanoparticles together in uniquely well-defined ways. “Nanoparticles made of gold and other noble metals can be made into parts of artificial molecules, much like atoms form the basis for molecules,” she said. These nanoparticles can absorb or scatter light in specific regions of the visible spectrum, and by building 3D assemblies of nanoparticles she can control interactions of light with matter. The educational component of the project will “deliver to the greater public the excitement of the fascinating properties of plasmonic nanoparticles,” she added, by the creation of a discovery-
based laboratory course, “Painting with Plasmons and Polymers,” for UCR students. This five-year, $649,964 grant will support two graduate students and two undergraduate students.

UCR Wellness Brings Special WalkingFit Program to Grounds, Building Services Teams

Four-week campaign designed to bring health program to employees who don’t have daily computer access through their jobs

By Ross French

The UCR WalkingFit Program is designed help staff and faculty on the road to health and fitness by encouraging them to walk at least 10,000 steps a day. Sponsored by UCR’s Wellness Program and UC Living Well, UCR WalkingFit has a core group of about 100 avid walkers who use a pedometer to record their steps, then input their progress into a WalkingFit website. In addition to the health benefits, participants receive a variety of rewards as they meet individual and team goals throughout the year.

The program has one limitation: many employees such as maintenance, custodial, grounds, food service and day care workers, don’t have regular computer access or the NetIDs required to log into the system through their jobs. So when a group of UCR Grounds and Building Services employees approached the Wellness Program about participating in WalkingFit, wellness program specialist Leanna Bowles was able to come up with a solution. The Wellness designed a program customized to the department, their varied work schedules, and their already formed work groups.

To foster competition, participants were asked to form teams of four people. Steps were tracked on paper and submitted to supervisors and weekly standings were posted for all participants to see how they stacked up each week.

In all, 59 people signed up for the challenge and 53 of them completed all four weeks. The response to the program was very positive.

“A 90 percent completion rate really goes to show how much the participants were committed to and excited about this program,” Bowles said. “The participants walked about 7,229 miles, which is about the distance from Riverside to Hong Kong.”

One of those participants was Ray Varela, a custodial supervisor for Building Services who works the 4 a.m. to 12:30 p.m. shift. He finished third overall in the competition with 742,994 steps over the four weeks. His team, the Nerd Herd – consisting of Custodial Supervisor Gena Lozoya and Senior Custodians Tammie Corbin and Arnold Mendoza – finished fourth overall with 1,414,548 steps.

Varela said he entered the contest knowing that he already walked seven to eight miles each day as he made the rounds of campus, but said he pushed himself to walk farther and more often.

“I have always been one who avoids elevators and takes stairs. I find walking to be the easiest way to get around on campus, especially when the students are here,” he said. “But I did walk more than I ordinarily do. For example, I parked off-campus and started walking to campus, rather than getting a ride. I was probably walking about 10 miles a day.”

Varela said that many of his colleagues were surprised to learn just how far they walked during an average day. “That was definitely an eye-opener.”
Ninety-two percent of the participants said they were satisfied or very satisfied with the program, with 85 percent saying they found themselves walking more during the day. The survey also revealed that 42 percent lost some weight and more than 30 percent felt they had better relationships with their coworkers.

The program is just the latest example of the UCR Wellness team putting together customized programming for a particular department or work group. Previous efforts have included the Physical Plant, the Police Department, Housing, Dining and Residential Services, and the Child Development Center.

“We continue to identify departments and work groups that will benefit from customized programming based on their need, interest, and our available resources,” Bowles said. “Our goal is for greater engagement, broader reach, and improved outcomes.”

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**Just Call her UCR’s Running Detective**

*UCPD Detective Trish Harding Finishes Second in Her Age Group at 2014 United States Police and Fire Championships*

By Ross French

UC Riverside Police Detective Trish Harding placed second in her age division in the half marathon at the 2014 United States Police and Fire Championships in San Diego on June 23.

The weeklong USPFC featured more than 4,000 athletes representing law enforcement, fire, prisons and border protection from across the United States competing in 50 Olympic-style events.

Harding ran the 13.1 mile course in 1:53:59, good for second in the 40+ division. Her time was the second best performance of her career, just behind her time of 1:51:20 at the San Diego Women’s Half Marathon in February 2013.

Harding said that she really enjoyed the race around the Miramar Reservoir because of the small field and the positive energy surrounding the competition.

“There were about 70 competitors – I had never run a small race like that,” she said. “But it was a really good experience. Everyone was encouraging each other.”

While Harding is fairly new to distance running, having picked up the sport about eight years ago, she is now an avid runner who enjoys competing in all sorts of events, including 8K, half marathons and marathons. Over Memorial Day Weekend, she competed in the Clif Bar Mountains 2 Beach Marathon in Ojai, finishing the 26.2 miles in 4:04:06.5.

UCPD Chief Mike Lane said the entire department was proud of Harding’s effort in San Diego.

“Detective Harding has mastered the proper balance between family, career and her personnel fitness,” Lane said. “She has a positive attitude which is contagious and serves her well in all these regards.”

Harding, who is in her 18th year with UCPD, is currently assigned as a detective in the Investigations Unit and is responsible for interviewing suspects, processing crime scenes and evidence, writing and executing search warrants, and filing cases with the district attorney’s office.
The Top: 5 Upcoming UCR Events to Check Out

Celebrate summer at these events on campus

By Lilledeshan Bose

1. Botanic Gardens Twilight Tours

If you have never been in the Botanic Gardens at nightfall, this tour is a treat. The cool evening stroll showcases just how beautiful and serene the gardens are. The two twilight tours – to be held on Friday, July 25, and Friday, Aug. 15, at 6:30 p.m. — are lead by docents, last about two hours and are followed by dessert/refreshments on the patio. The cost is $7 for Friends of UCRBG Members and $10 for nonmembers, payable at the door. Reservations are required; call 951-784-6962 or email ucrbg@ucr.edu. Be sure to specify which tour you plan to attend.

2. Summer Ice Cream Cool Down

On Thursday, July 17, from noon to 2 p.m., the LGBT Resource Center will host an ice cream social at Costume Hall 245. Staff, faculty and friends are all invited. For more information, contact Nancy Tubbs, (951) 827-2267 or nancy.tubbs@ucr.edu.


Learn about the history of the selfie and more. From July 19 to Oct. 11, UCR ARTSblock will exhibit 100 Japanese camperas spanning a century of innovation. The reception will be held on Saturday, July 19, 6 p.m. to 9 p.m. For more information, go to culvercenter.ucr.edu/Exhibition/100-Japanese-Cameras

4. Afternoon and Sunset Kayaking in Dana Point

Get out of Riverside for a day to watch the sunset at Dana Point. Set for Aug. 2, from 1 p.m. to 9 p.m., all you have to do is get in a kayak and guides from the UCR Extension center will teach you the rest. For staff and faculty, the fee is $66 to $72. The fee includes gear, wetsuits, transportation, parking, and trip leaders. The sign-up deadline is on July 29. For more information, call (951) 827-5801 or email arts@ucx.ucr.edu.

5. Reception for “Figurative Languages: Recent Acquisitions to the Permanent Collection at UCR Sweeney Art Gallery”

On Saturday, July 19, from 6 p.m. to 9 p.m., there will be a reception for “Figurative Languages: Recent Acquisitions to the Permanent Collection at UCR Sweeney Art Gallery.” The show presents the work of Robert J. Brawley, Kent Anderson Butler, Matt Chambers, The Clayton Brothers, Neil Farber, Elizabeth Olbert, and Megan Williams. Via painting, drawing, and collage, the North American artists explore creative approaches toward the figure. The exhibit is open through Nov. 1.

Summer Institute Focuses on Undergraduate STEM Education

UC Riverside hosts the National Academies West Coast Scientific Teaching Summer Institute; participants learn to “flip the classroom” and engage students in active learning

By Iqbal Pittalwala

Thirty-three instructors from various universities on the West Coast spent the last week of June at UCR to im-
prove undergraduate STEM (science, technology, engineering, mathematics) teaching and student learning.

The instructors participated in the “West Coast Scientific Teaching Summer Institute,” a five-day workshop sponsored by the Howard Hughes Medical Institute (HHMI) in collaboration with the National Academies. Specifically, they learned how to “flip the classroom” or incorporate active learning tools into otherwise didactic lectures.

“We believe we have 33 converts that will return to their home institutions excited about transforming their courses from passive to student-centered active learning environments—where students help create their own knowledge from a hands-on, inquiry-based perspective,” said Bradley Hyman, a professor of biology at UC Riverside, who co-led the institute along with Clarissa Dirks, an associate professor of biology at Evergreen State University, Wash. “Importantly, a significant number of participants were postdoctoral fellows just beginning their teaching careers, and such early adopters of Scientific Teaching will have the advantage of establishing their own courses from this new perspective from the beginning.”

The five-day workshop took place in the Neil A. Campbell Science Learning Laboratory. Participants:

- learned effective active learning techniques to employ in the STEM classroom
- created an active learning lesson to use in their own classrooms
- reviewed student-centered exercises developed by other faculty
- developed assessment tools to measure student understanding.

Participating instructors were taught to craft lectures through a “backwards” design process whereby learning outcomes — active expectations of the students — were first established. Assessments were then crafted that aligned specifically with learning outcomes. Then, lectures incorporating multiple active learning devices were constructed that carefully aligned with assessments and outcomes. To ensure inclusivity, the diversity of student backgrounds — academic, socioeconomic, and ethnic — were incorporated into lectures.

Erin Rankin, an assistant professor of entomology at UCR, has been teaching classes of more than 300 students since April 2013. “What I learned at this institute is that information needs to be made accessible to all students, regardless of their preparation or background,” she said. “I learned, too, that I can use activities such as paired-shares in large stadium-type classrooms so that students engage in peer-to-peer interactions. Participating in the five-day workshop has made me think critically about what my students are getting out of my courses—not just content, but also how are they learning, how are they assessing what they know and what they don’t.”

For Blaire van Valkenburgh, a professor of ecology and evolutionary biology and the associate dean for academic programs in the life sciences at UCLA, participating in the institute helped her think about the diversity in her classrooms in new ways. “It’s not just gender and ethnicity, but also people with different learning styles and personalities,” she said. “For example, traditionally I would ask a question in class and the ‘fan club’ in the front rows would answer. I didn’t think much about how disengaged the rest of the class was. New techniques we learned in the institute have shown us how to get the whole class involved, how to get students to share with each other and participate.”

Kelsey Gano, a graduate student in microbiology, is a teaching assistant at UC Riverside with a strong interest in improving her teaching as part of her professional development. “I have learned in this workshop how to be more approachable to my students and deliver information to them that is easier for them to understand,” she said. “I plan to share what I have learned at the institute with my peers, some of whom, I know, are struggling at being more effective teaching assistants. I made many new connections at the institute with instructors
from other universities. I expect we will be in contact for many years.”

The workshop placed considerable focus on institutional transformation—that is, propagating what was learned in the summer institute throughout the home institution of the participants. Methods as to how to “teach” other instructors about scientific teaching and engage administrators in the importance of supporting active learning efforts engaged by their faculties were included in the institute.

The quality and effectiveness of undergraduate STEM education has received much attention. The National Research Council’s BIO 2010: Transforming Undergraduate Education for Future Research Biologists reported that introductory science courses often supply little knowledge of contemporary science, and can actually discourage students from further science study. It is recommended in this report and others that university faculty explore new ways to teach. It also proposed that a summer institute on teaching be developed for faculty.

For the past 10 summers, HHMI and the National Academies have partnered to conduct summer institutes on undergraduate science education. Besides improving classroom teaching in the sciences by training instructors to develop and implement effective teaching methods, the summer institutes aim to attract more students to the sciences by training faculty and future faculty (graduate students and postdocs) to provide an outstanding undergraduate classroom and research laboratory experience.

Besides the West Coast, the following regions have summer institutes: the Gulf Coast, Midwest, Mountain West, Northeast and Southeast.

All the institutes bring together teams of science educators, with each participant helping develop instructional materials designed to teach scientific thinking and concepts at the introductory level. In the academic year following the institutes, participants test the materials in their own introductory courses. A nationwide experiment assesses the impact on faculty teaching and student learning.

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**Getting Personal: Ken Stewart**

**Job: Clinical Preventive Care Specialist, Campus Health Center**

Dr. Ken Stewart is the kind of doctor you’d want around in an emergency.

He’s friendly, knowledgeable, and genuinely cares about his work. “I want to help people,” Stewart says, “and what makes me smile is when I see that a patient is committed to their health.”

Commitment is important for Stewart, who has worked for the health of UCR students for almost six years as a preventive care specialist at the Campus Health Center. Stewart works primarily as a doctor (about 95 percent of his job is seeing patients on a daily basis), but he is also a project manager and program coordinator.

Stewart’s specialty is working with patients with chronic diseases such as diabetes or obesity. Every day, Stewart meets with
nearly a hundred patients, helps them track their personal goals and encourages them to make healthy lifestyle changes. In this way, Stewart is able to effect positive change on an individual level as a doctor.

But Stewart is also fired up by that other 5 percent of his job.

Stewart also manages the Preventive Care Clinic, a branch of the Campus Health Center that he created and oversees. In this role, Stewart hires groups of student workers, called preventive care advocates, who work closely with him to develop programs and conduct research to help the student outreach of the Campus Health Center.

While low student attendance at various Campus Health Center events is a challenge, Stewart works with his advocates to engage visitors via social media to better reach the student population and inform them of upcoming events and policies. “Some students don’t know about their insurance and don’t know if they are covered or not,” he said. “I want to help them.”

For Stewart, part of the joy of helping students is seeing the changes in their lives as they become more independent and take on more adult responsibilities.

Stewart is currently working on several marketing campaigns and projects to better inform students of the services at the Health Center, educate them on proper usage of medication and debunk health myths.

While his workload isn’t for the faint of heart, it’s Stewart’s commitment that pulls him through. — Konrad Nagy

Who Says?
by Bethanie Le

“Structured procrastination means you don’t waste your time. When you’re avoiding another task, you do something else instead. ... You’re embracing your love of procrastination, but remaining productive.”

John Perry, distinguished professor of philosophy, on how procrastinating can be used productively

BUSINESS INSIDER

“Showing that emotion can foster self-control and discovering a way to reduce impatience with a simple gratitude exercise opens up tremendous possibilities for reducing a wide range of societal ills from impulse buying and insufficient saving to obesity and smoking.”

Ye Li, assistant professor of management and marketing, on how feeling grateful improves decision making

FORBES

“Insects pollinate half of the food that we eat. Understanding insects is important to food safety.”

Eamonn Keogh, professor of computer science and engineering, on the importance of his team’s development of sensors that accurately classify insects
FARM AND RANCH MARKET NETWORK

“We all have our own moral and religious convictions and we exercise those convictions within the scope of our families.”

Amalia Cabezas, associate professor of ethnic studies, on her opinion on the U.S. Supreme Court decision allowing family-owned companies to deny contraceptive insurance coverage if it violates the companies’ religious beliefs

PRESS-ENTERPRISE

“The discovery will drive researchers who study ancient reef-builders to look back beyond 540 million years ago for other signs of skeletal reef ecology.”

Mary Droser, professor of geology, on the finding of fossils that indicates that reefs date to as far back as 548 million years ago

THE HUFFINGTON POST

“The liquid crystals we developed are essentially a liquid dispersion, a simple aqueous dispersion of magnetic nanorods.”

Yadong Yin, professor of chemistry, on UCR’s discovery of magnetically responsive liquid crystals, which has applications in writing tablets, billboards and anticounterfeit technology

ELECTRONIC PRODUCTS & TECHNOLOGY

“You have to deal with what life throws at you – sometimes it’s good and sometimes it’s not. ... It’s like an old acting exercise – you deal with what you’re given.”

Eric Barr, professor emeritus of theater, on his battle with strokes that left him temporarily without speech and the full use of his left side and impaired his memory

INSIDEHIGHERED.COM

Research and Scholarship

Five UCR researchers named Thomas Reuters “Highly Cited Researchers 2014”

Five researchers at UC Riverside have been named Thomas Reuters “Highly Cited Researchers 2014.” They are: Robert C. Haddon, a distinguished professor of chemistry as well as chemical and environmental engineering; Yadong Yin, a professor of chemistry; Wei Ren, an associate professor of electrical and computer engineering; Roya Bahreini, an assistant professor of atmospheric science; and Julia Bailey-Serres, a professor of genetics. Yin is highly cited in two categories: chemistry and materials science.

Highly Cited Researchers 2014 (highlycited.com) represents some of the world’s leading scientific minds. More than 3,000 researchers earned the distinction by writing the greatest number of reports officially desig-
nated by Essential Science Indicators℠ as Highly Cited Papers—ranking among the top 1 percent most cited for their subject field and year of publication, earning them the mark of exceptional impact.

Once researchers achieve the “Highly Cited Researcher” designation, they retain the status forever.

**Wyman's Research on Lignin Valorization Published in Science**

Charles Wyman, the Ford Motor Company Chair in Environmental Engineering at UC Riverside’s Center for Environmental Research and Technology and professor in the Chemical and Environmental Engineering Department of BCOE, is one of 16 authors of the paper, “Lignin Valorization: Improving Lignin Processing in the Biorefinery,” which was published in the May 16 issue of Science.

**’Nature Biotechnology’ Cover Photographed by UCR’s Toni Siebert**

The photo appearing on the cover of the July 2014 issue of Nature Biotechnology was taken by UCR’s Toni Siebert, a museum scientist in the Department of Botany and Plant Sciences, who works in the lab of Tracy Kahn, the curator of UCR’s Citrus Variety Collection. The cover photo is associated with a research paper in the July issue — “Sequencing of diverse mandarin, pummelo and orange genomes reveals complex history of admixture during citrus domestication” – in which the authors sequence and compare citrus genomes. The lab of Mikeal Roose, a professor of genetics at UCR, contributed one of the citrus genome sequences analyzed in the paper.

**Awards and Honors**

**UCR undergraduate students to work in Ludwig Bartels lab**

UCR undergraduate students Sahar Naghibi, Gretel von Son Palacio, Tom Empante and Daniel Liu have received STARnet fellowships to do work this summer in the laboratory of Ludwig Bartels, a professor of chemistry. The fellowships were awarded to the students by the Semiconductor Research Corp., the trade organization of the semiconductor industry.

STARnet is a collaborative network of Semiconductor Technology Advanced Research centers. Each STARnet center is a team of U.S. universities that conducts precompetitive exploratory research on semiconductor, system and design technology critical to the U.S. microelectronics and defense industries. Bartels is currently a STARnet participating faculty member.

**Stajich Wins 2014 Alexopoulos Prize**

Jason Stajich, an associate professor of plant pathology and microbiology, has been awarded the 2014 Alexopoulos Prize by the Mycological Society of America, a scientific society dedicated to advancing the science of mycology – the study of fungi of all kinds including mushrooms, molds, truffles, yeasts, lichens, plant pathogens, and medically important fungi.

The award is peer-nominated and each year recognizes an outstanding early-career mycologist. Stajich received the award last month in East Lansing, Michigan, at the annual meeting of the Mycological Society of America.
The award consists of a plaque and a monetary award of $1,000.

**BCOE students win EPA student design contest**

A team of BCOE students has won an EPA student design contest for a device that curbs harmful pollutant emitted from lawnmowers by 93 percent.

The students developed the device – an L shaped piece of stainless steel that attaches to the lawnmower where its muffler was – because small engine devices produce significant harmful emissions. The students’ device has also fits in with UC President Janet Napolitano’s recent announcement to make the University of California system carbon neutral by 2025. With that in mind, employees responsible for maintaining the lawns at UC Riverside have agreed to pilot the students’ device. That will likely start in the coming months.

The team, which calls itself NOx-Out, believes there is a market for the device for lawnmower manufacturers and current lawnmower owners, especially operators of landscape companies, who could retrofit their existing gasoline-powered lawnmower. The device has the added benefits of reducing noise from the lawnmower and the smell of gasoline.

The students – Timothy Chow, Brian Cruz, Jonathan Matson and Wartini Ng, all of whom just graduated – won a phase one grant of $15,000 as part of the EPA’s P3 (People, Prosperity and the Planet) competition. Next year a new group of students – Anna Almario, Priyanka Singh and Alyssa Yan – will take over the project and compete for a $90,000 phase two grant.

All the students have been advised by Kawai Tam, a lecturer at the Bourns College of Engineering, Phillip Christopher, an assistant professor of chemical and environmental engineering, and David Cocker, a professor of chemical and environmental engineering.

**Did You Know?**

**Faculty and Staff Assistance Program**

Did you know that there’s a program for personal concerns such as alcohol and drug-related matters, family and marital problems, financial difficulties and legal concerns? The Faculty and Staff Assistance Program (FSAP) is UCR’s way of encouraging employees who may be having problems to seek professional help. For more information, call (951) 781-0510 or (800) 266-0510. Assistance is available 24 hours a day, 365 days a week, and is strictly confidential.

**A Meeting on UCR’s Institute of Agriculture**

UCR’s CAFE (California Agriculture and Food Enterprise) is a nascent institute that will act as an umbrella for UCR interdisciplinary research and other activities associated with food and agriculture in the broadest sense. It is in its very earliest stages of development with preliminary involvement from CNAS, CHASS, SOM, BCOE, and SPP.

If you have an interest in contributing to creating to this effort, please attend the exploratory meeting in 2158 Bachelor Hall at 10 a.m. on Friday, July 25. If you are interested, but cannot attend, please let Norman Ellstrand know via email at ellstrand@ucr.edu.

**Debbie Artis Recognized as Professional Advocate of the Year by Riverside Area**
Debbie Artis, the director of the Title IX/Sexual Harassment Office at UCR and a long-time volunteer with the Riverside Area Rape Crisis Center (RARCC) has been recognized as that organization’s Professional Advocate of the Year at their annual Volunteer Recognition Dinner on Thursday, July 10, 2014.

“Debbie has been a long-term supporter of our agency, connecting and solidifying our relationship with UC Riverside. She has been a great conduit, providing the best possible services to the survivors of sexual assault,” said RARCC Director of Programs Debora Monroe-Heaps, who nominated her for the award.

Founded in 1973, the nonprofit RARCC has served as a resource for the survivors of sexual assault and their families. The need is tremendous, as an estimated one-in-five college-age women experience some sort of sexual assault during their time in school, and one-in-three women overall are sexually assaulted at some point in their lives. The center’s services are free of charge, thanks in part to the efforts of the volunteers.

“Volunteers are the backbone of our organization, and this dinner is our opportunity to thank the members of the community who have helped us,” Monroe-Heaps said.

Artis worked at the RARCC for seven years before joining UC Riverside’s Women’s Resource Center in 1997 as the education coordinator/campus advocate for victims of sexual assault. In 2003 she was appointed the interim Title IX director in the Title IX/Sexual Harassment Office and in 2004 she became the director of the Title IX/Sexual Harassment Office.

She has continued to volunteer with the RARCC throughout her UCR career, serving on their board of directors from 2005 to 2010. She is currently a member of the advisory committee, providing professional support, information, collaboration and advice to the organization.

“My involvement with RARCC allows me to be a part of the solution,” Artis said. “I provide professional advice and support to RARCC staff; they can call me about client, family or campus concerns. And if I need professional advice and support involving a member of the UCR family, I can call RARCC.”

Artis said she was humbled by the honor, adding that she volunteers to help counter the negative impact that sexual violence brings to the campus and surrounding community.

“I serve as a volunteer at RARCC to make a difference, to help build positive campus and community connections toward reducing the risk of sexual violence,” she said. “I do everything I can to ensure that UCR and RARCC stay connected.”

Associate Vice Chancellor for Diversity, Excellence and Equity Yolanda Moses said that Artis was deserving of the award.

“Debbie is a passionate champion for justice and for the rights of women and men who have been victims of sexual harassment and sexual assault,” Moses said. “She is the embodiment of all those things we want in a caring professional. I am so proud of her and all that she has accomplished.”
Plan Study

*Campus Begins Process of Reviewing Long Term Development*

By Kris Lovekin

UC Riverside yesterday issued a request for proposals [RFP] for a consultant to assist the campus in creating a new Physical Master Plan Study to guide responsible and sustainable campus development to the year 2025 and beyond.

The study will be used to assist campus leadership in meeting the key goals of the university’s strategic plan, UCR 2020.

UCR’s strategic plan currently calls for increasing enrollment from 22,000 to 25,000 students by 2020. In addition, the campus is considering adding as many as 5,000 additional new students by 2025 for a total student population of 30,000.

The campus also plans to grow its core faculty by 300 new ladder-rank scholars by 2020 from the current 650 and provide several new facilities to serve teaching, research, and other institutional needs.

The study also is needed to guide implementation of the UC-wide goal of becoming carbon-neutral in its operations by 2025. In addition, new state stormwater regulations will require UCR to actively manage new stormwater runoff onsite.

Under the RFP, interested parties are asked to submit qualifications and proposals to the University by Aug. 12. Here is a link to the RFP solicitation:

The study is anticipated to be completed by late 2015, after which a new UCR Long-Range Development Plan (LRDP) and related environmental approvals will be undertaken. While the study is underway, UCR will continue to advance priority projects, in accordance with the UCR LRDP of 2005, with amendments, as necessary, and subject to any required public review.

UCR is committed to soliciting input from the public as well as local and state government entities and private concerns during the process. For more information, please visit: http://cpp.ucr.edu/masterplan_study.