Supporters Lobby for the UCR School of Medicine in Sacramento

By Kris Lovekin

California Senator Richard Roth and Assemblyman Jose Medina took their request for $15 million in additional funding for the UCR School of Medicine to the Senate’s Higher Education Committee this week by introducing Assembly Bill 27. It passed the Assembly Higher Education Committee with bipartisan support, the first of several important steps before the funding can become a reality. Their argument has been backed up with statistics about this area’s physician shortage.

Over the past 40 years, the population in Riverside County has increased from 500,000 residents to over two million, driving the demand for health care. The demand for medical care simply does not meet the supply in our area.

California needs to graduate more doctors to be able to treat the millions of residents expected to gain health care next year under the federal Affordable Care Act.

Interim Chancellor Jane Close Conoley has taken the UCR message to Sacramento recently, and had an opportunity to talk with Gov. Jerry Brown about the medical school, as well as other UCR issues.

Establishment of the UCR School of Medicine was approved by the UC Board of Regents in July 2008 and Richard Olds, the founding dean, was appointed in February 2010. Two UCR buildings are completed and ready to accept new medical students and new faculty – the new School of Medicine Research Building and the renovated School of Medicine Education Building.

The medical school also operates a Ph.D. program in biomedical sciences, a long-standing graduate degree program at UCR. Additionally, the medical school will develop a range of residency training programs, the post-M.D. education required for doctors to become board certified in their specialties. The first students in School of Medicine will begin in August of this year.

A video about the need for the school of medicine, plus a petition in support, is available at this link: http://asmdec.org/members/a61/other-resources/ucr-school-of-medicine-funding#sign
Longtime Arts Supporter Leaves $233,765 to Sweeney Art Gallery

Bequest from patron Tilda Fagin will help ensure UCR gallery’s future

By Jeanette Marantos

In life, Matilda “Tilda” Fagin was an elegant and ardent supporter of the arts, particularly at UCR’s Sweeney Art Gallery, and her bequest of $233,765 will help ensure that the gallery can celebrate its 50th anniversary in style this year, and in the years that follow.

Fagin died on Jan. 16, 2012, three days shy of her 90th birthday. She and her late husband, Harold, were early, strong supporters of UCR, but her particular focus was on the art gallery.

“I remember being so impressed that Tilda would make the extra effort to come to ARTSblock’s Sweeney Art Gallery opening receptions,” said gallery Director Tyler Stallings. “Her bequest will provide a financial cushion in a time when underwriting for the arts is highly competitive due to the country’s recession. The funds will allow the gallery to continue with its already established adventurous programming, like the ‘Free Enterprise: The Art of Citizen Space Exploration,’ which is on exhibit now.”

Adventurous programming is exactly what Fagin wanted to see continue, said longtime friend John “Terry” Mylne. He and his wife, Bonnie Jean “BJ” Mylne, knew the Fagins for nearly 40 years.

“She had art in her constitution and really felt strongly about the things that were being done at UCR in the area of the arts, particularly at the Sweeney Art Gallery,” Mylne said. “She admired the people who were there, and wanted to see that it was nurtured and prospered.”

Fagin and her husband never had children of their own, but still had a strong affiliation with young people, particularly teenagers, Mylne said.

“She nurtured our three children; they were her children, too,” he said. “She admired the artistry in youngsters. She enjoyed talking to them about their art, and what it meant to them. It made it personal for her.”

The Fagins were longtime philanthropists, active in establishing Riverside Community Hospital, where Tilda served as a Pink Lady for 25 years, said Tony Truong, director of gift planning in UCR’s Office of Development. Fagin was also a member of UCR’s Watkins Society, but the Sweeney Art Gallery was her passion, he said. “She just had a special interest in art, and making sure there’s always a place for it at the university.”

Annual Urban Pest Management Conference Set for March 26

Supervisors, managers and technicians in the structural pest control industry to attend one-day conference at UCR

How can termites, bed bugs and Argentine ants be effectively controlled? What are some of the new invasive cockroach pests in California? And what are some ways to address the rodent problem in suburban structures and landscapes?

A one-day conference for both the public interested in these questions and professionals in the pest control industry will take place at UCR on March 26, from 7:15 a.m. until 5 p.m. at the University Extension Center (UNEX), 1200 University Ave., Riverside, Calif.

Registration for the 22nd Annual UCR Urban Pest Management Conference costs $110 per person (in-
The keynote speech will be given at 8:30 a.m. by Nan-Yao Su, a professor of entomology at the University of Florida. The title of his talk is “Almost Eighty Years After ‘Termites and Termite Control’ by Kofoid (1934).”

Sponsored by the UCR Department of Entomology, the conference is especially popular with supervisors, managers and technicians in the structural pest control industry. Approximately 150-200 attendees are expected to attend this year’s conference.

“This conference will provide the industry and public with the most up-to-date information on the biology and control of insect pests in and around urban structures,” said Dong-Hwan Choe, an assistant professor of entomology at UCR and the lead organizer of the conference. “We have attendees from throughout Southern California and the adjacent states. By attending the conference, they can get their continuing education units for maintaining their professional licenses.”

More information about the conference, including the agenda and registration information, can be found by calling Kathleen Campbell, the conference coordinator, at (951) 827-5729.

Teaming Up to Bring a Bicycle Shop to the Students

UCR Women’s Resource Center, Pedals Bike Shop Work Together to Bring Service, Shop to Campus Ux3

By Ross French

Romanie Arterberry saw that students at UCR had a bike problem. More specifically, they had a problem when their bike broke down or suffered a flat tire, because the nearest bike shop – Pedals Bicycle Shop in downtown Riverside – was almost five miles away.

Arterberry, the student affairs officer at the Women’s Resource Center and staff advisor for the Campus Safety Escort Service, had heard tales of students having to take their broken bike on the bus or scramble to find a ride with a friend to get it repaired, and that it was causing them a lot of frustration.

But in the summer of 2012, as Arterberry visited Pedals to purchase some bikes for the safety escort service, she found a solution in the person of Pedals’ owner Jason Markley. After discussing the challenges that the students were facing in getting to his shop, he agreed to partner with the Women’s Resource Center and to bring his bike shop to the students.

“In fall quarter of 2012 we invited Pedals to come out and do a workshop and see if people would actually bring their bikes out to be repaired,” Arterberry said. “It was so popular that we kept extending it and we ended up extending it for seven weeks.”

“We started off doing it out of a truck and a trailer and a little EZ-Up tent and it worked really well,” Markley said of his weekly appearances near Olmstead Hall and later the Bell Tower. “Everyone has been so receptive. It was overwhelming.”

The “pop-up shop” offered basic services and repairs, equipment such as tires, tubes, seats, lights and even bikes themselves, and even other modes of transportation, including skateboards and scooters, at a student-friendly price.

Pedals Bike Shop’s on-campus presence began with a trailer and EZ-Up canopy. They have since moved to a storage container in Parking Lot 19. PHOTO BY ROSS FRENCH
“The rates we’re charging are just enough to be out here and to pay the guys who work out here,” Markley said. “We want to keep everybody rolling.”

Markley, a life-long Southern California resident and a former professional mountain biker whose career was ended by a broken neck suffered in an accident during a downhill race, opened his bike shop at 3765 Jurupa Ave. in 2011. He describes himself as “super passionate” about bicycles and bicycle safety.

“I have just been totally enveloped in bikes ever since I was a kid, and I have been all over the world because of them,” he said. “We want people to know that your bike is not only a great form of transportation, it’s exercise, and it’s good for your state of mind.”

“It’s really important to us that your bike gets fixed properly,” he added.

The shop had a constant flow of students throughout the weekly visits to campus, by the end of fall quarter, both Arterberry and Markley knew they had a winning idea on their hands. So they sought to provide the shop with a more permanent on-campus location.

Arterberry brainstormed with Irma Henderson, alternative transportation manager at Transportation and Parking Services, and Lindy Fenex, director of the Student Recreation Center. Henderson was able to loan a converted storage container that had previously been used by “The Bike Lounge,” a campus bicycle club/cooperative that had gone inactive. The container was moved from Parking Lot 25 to Lot 19, near the Highlander Union Building (HUB), where students could have easier access to it.

The shop was open Wednesdays from 10-to-4 throughout winter quarter and Arterberry said there are plans to expand the days and times during spring quarter to include Tuesdays from 10-to-4.

“This service has really taken off and we are glad to be able to help them out,” she said.

Henderson said that the shop helps get and keep more students, staff and faculty on their bikes, which helps the campus meet state clean-air mandates to reduce the number of single occupant vehicle trips and lessen campus and community congestion.

“I am very appreciative of him being on campus,” Henderson said. “As we try to get people out of their cars and onto their bicycles, we want them to do it safely.”

Another resource for campus cyclists are five new Dero “Fixit Stations” that were purchased by Transportation and Parking Services and installed near campus residence halls. The bright yellow units have all the tools and resources that one would need to do basic bike repair, and are available to students 24-hours-a-day. The units are located near the A&I residence hall, Lothian residence hall, Transportation and Parking Services, as well as outside Pedals’ Lot 19 location and were funded through the Alternative Transportation Program.

Henderson said she could envision the Student Recreation Center having a larger role in the campus’ bicycle culture in the future, particularly after the building expansion is completed in 2014.

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Limiting Access to Alcohol Reduces Violence

*UCR sociologists co-author book that advocates new approach to solving community violence*

By Bettye Miller
Alcohol plays a powerful role in U.S. social and cultural life — and has since colonial times — despite decades of research documenting it as more dangerous and physically destructive than heroin and cocaine, and a significant factor in violent crime.

In a book published this month, “Alcohol and Violence: The Nature of the Relationship and the Promise of Prevention” (Lexington Books), UCR sociologist Robert Nash Parker says that amending existing laws or adopting additional regulations to limit the availability of alcohol — a practice known as environmental prevention — would reduce community violence. So why would policymakers and politicians balk at such efforts?

“We have an individualistic bias in our society and culture in America. So the environmental prevention argument is new to many people’s ears, and they react with the individualistic bias that is so American,” he says.

Parker and co-author Kevin J. McCaffree, a Ph.D. student at UCR, cite numerous examples in the U.S. where changing the physical environment in which alcohol is acquired and consumed — such as limiting the number of liquor stores in a neighborhood, banning the sale of 40-ounce containers of beer, or banning the sale of alcohol entirely — reduced violent crime.

For example:

In isolated Barrow, Alaska, population 7,000, the adoption of laws that alternately banned or permitted the sale and possession of alcohol during a 33-month period produced a 90 percent drop in assaults in those months when alcohol was banned. When the bans were revoked, assaults returned to their previous — or higher — levels. The bans were advocated by an Eskimo community devastated by alcohol-related disease and violence.

The Union City, Calif., city council in 1994 adopted a major zoning policy change which resulted in the closing of many alcohol outlets in five mixed-use, residential retail neighborhoods. Significant drops in youth violence occurred.

Fenway Park, the Red Sox’s baseball stadium in Boston, was notorious for beer-fueled fan fights. Team officials tried a number of individually oriented prevention strategies, such as limiting the number of beers each fan could buy. Nothing worked until the team stopped beer sales half-way through the game.

“Is prohibition the solution to violence?” the sociologists ask. “Not for the vast majority of communities. However, these results show that for isolated communities with a concern for public health and safety, prohibition may be a viable option.”

Reducing the density of alcohol outlets — particularly in impoverished communities, where they tend to proliferate — is a proven method of reducing community violence, Parker and McCaffree assert, as do other co-authors of “Alcohol and Violence.”

In other research cited in the book, Parker and co-authors Maria Luisa Alaniz, director of social science teacher education at San Jose State University, and Randi S. Cartmill, a researcher at the Center for Quality and Productivity Improvement at the University of Wisconsin—Madison, suggest that intense alcohol advertising targeting specific ethnic groups — Latinos in particular — often is so sexual in nature that it has a significant impact on sexual crimes committed against girls and young women.

“The explicit sexual nature of some of the alcohol advertisements displayed in alcohol outlets provide an explicit link between alcohol and sexual availability,” Parker explains. “In the first analysis of its kind we have found empirical evidence that the specific content of alcohol advertising in alcohol outlets is related to a type of violence in the surrounding neighborhoods that is consistent with the nature of the advertisements’ sexualized
content. The density of alcohol ads in which Latina models are displayed in demeaning, sexist and commodifying poses and situations was related to sexually violent victimization of Latina and non-Latina girls.”

Most scholars agree that the consumption of alcohol in America is a common precursor to a variety of aggressive acts, including assault, homicide, rape and suicide.

“The cost to American society of alcohol impact is twice that of all other drugs combined,” Parker notes, even when taking into account other social issues such as poverty and its attendant stressors. “We can reduce the harm from alcohol-related violence, without severely restricting the ability to consume alcohol for enjoyment and pleasure. The result will be a safer and better society for everyone, including the industry, the seller, the drinker and the non-drinker alike.”

Most efforts to prevent violence in the United States have been largely unsuccessful, Parker says, citing decades of programs to reduce gang, drug and gun activity. Public policy has made a difference in car safety, however, he notes.

“We have significantly reduced the deaths related to auto crashes over the last 40 years. How have we done that? By making cars safer with features such as air bags, seat belts and better body construction. What we did was change the environment of the car, so that the same tendencies to drive too fast and phone/text/drink/eat/put on makeup/read while driving has resulted, despite these unsafe habits, in a dramatic decrease in highway deaths,” Parker says.

“In this book we see the case of alcohol regulation, most of which is already on the books in every community in the nation, most of which is already enforced to some extent, and which can be tweaked and amended and supplemented by noncontroversial additions that involve enforcement efforts or additional regulations that can, as we show, reduce violence. Communities can do these things on their own, they are not expensive, and they actually reduce violence.”

In addition to Parker, McCaffree, Alaniz and Cartmill, co-authors are Valery J. Callanan, associate professor of sociology at the University of Akron; Deborah M. Plechner, adjunct assistant professor of women, gender and sexuality studies at the University of Minnesota, Duluth; and Robert Saltz, senior scientist at the Prevention Research Center at the Pacific Institute for Research and Evaluation in Berkeley, Calif.

**UCR is for the Birds**

*Devoted birders in UCR’s Campus Avifauna Project spotted 135 bird species in 2012*

*By Jeanette Marantos*

If you spot a lanky bearded man with binoculars in one hand and a book tucked in his belt, be reassured—this is no ordinary creeper. Philosophy graduate student Kevin Gin is a birder on a mission, peeping not in windows but in branches and bushes to find as many bird species as possible on UCR’s campus.

From the Acorn Woodpecker to the Yellow-Rumped Warbler—better known as “Butter Butt” to local birders—you can almost cover the alphabet with the record 135 bird varieties Gin and his fellow birders counted on campus in 2012.

“I really like the challenge of it,” said Gin, who memorizes bird calls by listening to a CD during his daily commute from Pasadena. “Some people look for birds because they’re beautiful—and some are really beauti-
ful—but most birders are pretty competitive and they love the challenge. You have to be passionate...obsessive maybe.”

Gin, for instance, visits the UCR Botanic Gardens at least twice a week to look for bird species, and that’s just his quest at UCR. Last weekend he woke at 2:30 a.m. so he could spend nine hours vainly trying to spot a rare Nutting’s Flycatcher near Parker Dam in Arizona. Talking with him in the gardens is a little disconcerting, since his conversation often tends to stop in mid-sentence, as he tries to identify a bird call.

“I’m easily distracted,” he said, apologizing. “I do this all the time. I’ll be talking to someone on campus and see a bird fly by and suddenly, I’ve forgotten what I’m saying. Once I saw 11 white-faced ibis flying over the campus. They didn’t land. I was very lucky to see them migrating.”

He’s made other exciting finds too—a Green-Tailed Towhee, rarely seen in this county during the winter, and a desert dweller called a Verdin, originally spotted by graduate students Michelle and Jennifer Tobin, which has wintered near the botanical gardens for the past three years. “It’s a big mystery why it’s here,” he said. “Sometimes birds fly the wrong way when they’re migrating, get lost and stay where they land, but this one keeps coming back.”

Gin is a member of the Campus Avifauna Project, a group started in 2007 by two members of UCR’s Botany and Plant Sciences Department—Professor Norman Ellstrand and retired technician Janet Clegg. The group’s initial focus was on updating the campus bird list, which hadn’t been recorded since 2000. But now the intent is clear—to find as many species as possible on campus, and increase the count every year.

So far, they’re right on track, from counting 113 in 2009, 119 in 2010, 123 in 2011 and a big jump to 135 in 2012. It’s not that new birds are moving on campus, Gin said, but that more people are out there counting. Gin has become the project’s official compiler—“That’s my title, ‘Compiler’”—so everyone in the group sends their sightings to him at his campus email, kevin.gin@email.ucr.edu. He said people who are interested in joining the group or adding to the count should contact him.

And how can he be sure the sightings will be accurate? “If I say I’ve seen some crazy stuff, other birders will come to look for the same bird. And if they can’t find the bird, they will discount anything I have to say,” Gin said. “You have to be reliable. Most birders are on the conservative side because it’s very embarrassing if you’re wrong. Nobody wants to be wrong because it hurts their credibility.”

Conservative is an understatement. When he’s asked how many birds he’s spotted on campus so far this year, he first says 50 or 60, then a moment later adjusts that to 65, then a few minutes later says no, he better just say 55. After the interview, he sends back a list of the 15 species we saw in our 40-minute stroll through the gardens and includes a proviso—“I didn’t include the Allen’s Hummingbird, since when I think I heard it, I was a bit distracted and don’t know for sure.”
A bit distracted, perhaps, but not so distracted that he couldn’t remember all 15 of the other species without writing them down. His goal for 2013 is to spot 400 different species in North America—he’s already noted 230—and at least 120 on campus. He goes on ebird.org to report his finds. “It’s so addictive,” he says, “and it’s a good way to procrastinate on a dissertation.”

Mike Pazzani, UCR’s vice chancellor for research and economic development, is an avid birder and photographer, and he has already captured many images of birds in his relatively short time at UCR.

Not that he doesn’t sympathize with birds as a hobby. But he had some words of wisdom for Kevin Gin: “Personally, I’d advise Kevin to work on his dissertation more.”

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**Improving Electronics by Solving Nearly Century-old Problem**

Using graphene, professor finds out what causes low-frequency electronic noise

By Sean Nealon

A Bourns College of Engineering professor and a team of researchers published a paper today that show how they solved an almost century-old problem that could further help downscale the size of electronic devices.

The work, led by Alexander A. Balandin, a professor of electrical engineering at UCR, focused on the low-frequency electronic $1/f$ noise, also known as pink noise and flicker noise. It is a signal or process with a power spectral density inversely proportional to the frequency. It was first discovered in vacuum tubes in 1925 and since then it has been found everywhere from fluctuations of the intensity in music recordings to human heart rates and electrical currents in materials and devices.

The importance of this noise for electronics motivated numerous studies of its physical origin and methods for its control. For example, the signal’s phase noise in a radar or communication gadget such as smart phone is determined, to a large degree, by the $1/f$ noise level in the transistors used inside the radar or smart phone.

However, after almost a century of investigations, the origin of $1/f$ noise in most of material systems remained a mystery. A question of particular importance for electronics was whether $1/f$ noise was generated on the surface of electrical conductors or inside their volumes.

A team of researchers from the UCR, Rensselaer Polytechnic Institute (RPI) and Ioffe Physical-Technical Institute of The Russian Academy of Sciences were able to shed light on $1/f$ noise origin using a set of multi-layered graphene samples with the thickness continuously varied from around 15 atomic planes to a single layer of graphene. Graphene is a single-atom thick carbon crystal with unique properties, including superior electrical and heat conductivity, mechanical strength and unique optical absorption.

In addition to Balandin, who is also the founding chair of the materials science and engineering program at UCR, the team of researchers included: The team included: Guanxiong Liu, a research associate in Balandin’s Nano-Device Laboratory (NDL); Michael S. Shur, Patricia W. and C. Sheldon Roberts Professor of Solid State Electronics at RPI; and Sergey Rumyantsev, research professor at RPI and Ioffe Institute.

The results of the research have been published in the journal Applied Physics Letters. The paper, “Origin of $1/f$ Noise in Graphene Multilayers: Surface vs. Volume” is available at: http://apl.aip.org/resource/1/applab/v102/i9/p093111_s1

“The key to this interesting result was that unlike in metal or semiconductor films, the thickness of graphene multilayers can be continuously and uniformly varied all the way down to a single atomic layer of gra-
phene – the ultimate “surface” of the film,” Balandin said. “Thus, we were able to accomplish with multilayer graphene films something that researchers could not do with metal films in the last century. We probed the origin of 1/f noise directly.”

He added that previous studies could not test metal films to the thicknesses below about eight nanometers. The thickness of graphene is 0.35 nanometers and can be increased gradually, one atomic plane at a time.

“Apart from the fundamental science, the reported results are important for continuing the downscaling of conventional electronic devices,” Balandin said. “Current technology is already at the level when many devices become essentially the surfaces. In this sense, the finding goes beyond graphene field.”

He also noted that the study was essential for the proposed applications of graphene in analog circuits, communications and sensors. This is because all these applications require acceptably low levels of 1/f noise, which contributes to the phase noise of communication systems and limits sensor sensitivity and selectivity.

The research at UCR was supported, in part, by the Semiconductor Research Corporation and Defense Advanced Research Project Agency through Center for Function Accelerated nanoMaterial Engineering and by the National Science Foundation. The work at RPI was supported by the US NSF under the auspices of I/UCRC “CONNECTION ONE” at RPI and by the NSF EAGER program.

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GETTING PERSONAL

Cesar Pla

*Campus Fire Inspector*

By Bethanie Le

Natural and low-key. That’s how Cesar Pla describes his lifestyle beyond his job as UCR’s campus fire inspector. But on the job, Pla’s experiences are far from natural and low-key. One example was an encounter with a bobcat that hopped over the fence of the Child Development Center.

“It was very scary because bobcats are really big and it could’ve hurt a child,” Pla said. “We looked for him and found him [in the north side of campus] ... and then the police tranquilized him. That was exciting since it’s really unusual to see a bobcat in the city.”

Besides handling wild bobcats, Pla’s main role is to watch over the safety of the campus through tasks like fire inspections, fire alarm testing, and fire extinguisher training.

Pla has worked at UCR for five years with his fellow fire inspector, Xavier Martinez. But he’s had more than 15 years of experience in fire services, albeit in more corporate environments. “I came from Raytheon in El Segundo,” he said. Looking for a career challenge, he moved to UCR in 2008. It was a good move because of the campus diversity. And as a people person, the biggest perk of working at UCR is getting to interact with students. “I like working and mentoring and talking to young people. ... I get a good feeling out of it because I know what it is like to be in [their] shoes,” Pla said.
Pla gets many opportunities to talk to UCR students because of another responsibility as fire inspector: He ensures that big events like Heat and Spring Splash are safe and comply with California fire codes. Although Pla is a regular at many UCR happenings (evident from his office walls, which are covered from top to bottom with posters, trinkets and souvenirs of past UCR events), Pla said his favorite is the bonfire at Homecoming.

“[The bonfire deals with] my natural element,” Pla exclaimed. “Our role in the bonfire is for the overall safety because we actually light a fire on pallets and burn the rival team’s mascot.”

Ultimately, Pla is here to protect the best interest of the community and college for fire prevention. He said, “[The Environmental Health and Safety Department] will help in any way that we can.”

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**Diversity Book Club to Discuss Book on Intermarriage by Carlos Cortés**

Carlos E. Cortés, a professor emeritus of history, will speak about his latest book, “Rose Hill: An Intermarriage Before Its Time” at the UCR Diversity Book Club. Organized by the Chancellor’s Diversity Education Program: Making Excellence Inclusive Alumni Group, the book club will feature Cortés’s memoir, where he talks about growing up as the child of a Jewish mother and Mexican-American Catholic father.

The event will be held at noon on April 23, at the Tartan and Tweed Room, Student Services Building.

“Dad was a Mexican Catholic. Mom was a Kansas City born Jew with Eastern European immigrant parents. They fell in love in Berkeley, California, and got married in Kansas City, Missouri. It happened in 1933, when such marriages were rare,” says Cortés in his book.

The memoir is a loving and examined portrait of a family at odds with itself, with Cortes raised hearing Yiddish in one ear and Spanish in the other, studying for his Bar Mitzvah after Mass. With an eye for the subtleties of conflict and tenderness, Cortes recounts his development amid the complex affections of a family whose members remained firmly by each other’s side until the very end.

Read the book and join the discussion; attendees are free to bring their own lunch. To reserve a spot, go to ucrlearning.ucr.edu and search for “diversity book club.”

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**Campus Safety Task Force To Make Recommendations**

Interim Chancellor Jane Close Conoley has formed a task force to discuss how to enhance campus safety, with representation from ASUCR, the Graduate Student Association, the Academic Senate, Staff Assembly, the UCPD, the Riverside Police Department, TAPS, and other interested groups.

Chairled by Charles Rowley, interim vice chancellor for financial and business operations, the task force will look at transportation, security cameras, campus police and campus communication in the wake of several armed robberies of students walking to and from campus.

Even though police were able to arrest the suspects, Conoley said the campus should look at whether there is anything the campus can do to prevent crime before it happens.

“By their very nature university campuses are accessible places,” said Conoley, in a recent message to campus. “We strive to keep an open and welcoming attitude while employing state of the art technology to protect
our community. Your help and suggestions for greater security are always welcome.”

The first meeting is set for the first week of April, and a final report will be available by early June.

“The Task Force will host at least one “Open House” where all members of the campus community will be invited to share general thoughts on campus safety as well as specific feedback on UCR’s various safety and security programs and initiatives,” Rowley said.

UCR to Welcome New Librarian Steven Mandeville-Gamble

*Former Washington University librarian will share his vision for the UCR Libraries at March 22 reception*

By Ross French

New University Librarian Steven Mandeville-Gamble will be formally introduced to the campus community at a reception on Friday, March 22, from 3:30 to 5 p.m. in the lobby of the Orbach Science Library.

Mandeville-Gamble became the ninth university librarian in UCR history on March 1, replacing the retiring Ruth Jackson. He came to UCR from Washington University in Washington D.C., where he served as associate university librarian. He said his first few weeks on campus have been “an amazing whirlwind of activities as I have begun meeting people, getting to know the library staff, and finding my way around the campus.” He is also looking forward to sharing his vision for the UCR Libraries.

“I was thrilled and honored to be selected as the new university librarian at UCR,” Mandeville-Gamble said. “I am eagerly looking forward to the reception, as it will give me the opportunity to become even more integrated into the campus community and begin sharing the evolving vision for the UCR Libraries and its role in supporting the research and teaching agenda of the university.”

The event is sponsored by the Librarians Association of UCR and the Library Staff Association. Executive Vice Chancellor and Provost Dallas Rabenstein will introduce Mandeville-Gamble, who will then make brief remarks. Refreshments will be served.

DID YOU KNOW?

How to Present to Investors

The Office of Research and Economic Development will host a panel on how to present to investors more effectively. It will discuss what investors are looking for, and common mistakes made during presentations. The panelists will include Molly Schmid and Michael Napoli from Tech Coast Angels, and Jay Goth from Redtail Capital. The panel will be held on March 25, 4 p.m., at Room 367 at the HUB. Interested parties may attend by sending an RSVP to Gloria Gallego at gloriag@ucr.edu.

Lot 25 Closed
Due to the ongoing expansion of the Student Recreation Center, Parking Lot 25 will be closed for all automobile parking until approximately Monday, April 1. This closure is necessary to conduct critical utilities infrastructure work on the electrical and chilled water lines beneath Lot 25.

Alternate parking is available in Parking Lots 24, 26 as well as the Aberdeen and Inverness “horseshoe”; please adhere to all posted parking policies at those locations. The Student Recreation Center will remain open for business during this period.

Well-attended Homecoming

According to Assistant Chief of Police John Freese, this year’s Heat was UCR’s biggest, with 11,400 attendees. Allison Tavaglione, director of constituent programs at the Office of Alumni & Constituent Relations, also reported that 400 parents attended this year’s Parents’ Day — another record.

Who Says?

UCR staff and faculty weigh in on the issues of the day via media outlets at home and abroad

“These questions have been great traditional questions in human literature, religion and philosophy for millennia. ...What we hope to do is make progress toward understanding these issues better even if we can’t completely answer them.”

John M. Fischer, distinguished professor of philosophy, on his $5 million grant to study immortality

LOS ANGELES TIMES

“It’s very, very, very unlikely that this would pose a threat.”

David Crohn, associate professor of environmental science, on Menifee Valley’s past use of sludge — a treated mixture of human, household and industrial waste commonly used to fertilize crops — and how it poses no danger to the residents’ health

UT-SAN DIEGO

“We found that a very common sleep drug can be used to increase verbal memory. ...This is the first study to show you can manipulate sleep to improve memory. It suggests sleep drugs could be a powerful tool to tailor sleep to particular memory disorders.”

Sara C. Mednick, assistant professor of psychology, on her research showing that pharmaceuticals like Ambien could enhance the memory-consolidation process

SCIENCE DAILY

“The Vatican understood that it needed to do something different, that it needed to show a different face of the church at this point.”

Jennifer Hughes, associate professor of history, on the selection of Jorge Mario Bergoglio of Argentina as pope, the first from Latin American and the first from outside of Europe in more than a millennium


LOS ANGELES TIMES

“Ronan taught me that children do not exist to honor their parents; their parents exist to honor them. ... He never had any options. He was totally helpless. That makes me want to live a big life because he never got to make any decisions on his own. ... He was just a beautiful boy. He was my kid.”

Emily S. Rapp, visiting assistant professor at UCR Palm Desert Center, on how being the mother of a boy with a fatal degenerative condition taught her life lessons seen in her memoir, “The Still Point of the Turning World”

HUFFINGTON POST

“If 522 were about the ingredients in our food, that would settle the question. But it isn’t about that. ... This bill is about the process.”

Alan McHughen, cooperative extension plant biotechnologist, on Initiative 522, a bill that would require genetically modified foods to be labeled

SEATTLE TIMES

“These things — marriage, family, wealth — do make people happy, but the effect is often not as long-lasting as people expect. And when the ‘thrill’ wears off and life gets back to everyday experiences, we think there’s something wrong.”

Sonja Lyubomirsky, professor of psychology, on how the levels of underlying joy depend more on how we react to situations than on the situations themselves

TELEGRAPH

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Research and Scholarship

March 6 to March 19, 2013

San Francisco Conservatory of Music Premieres Ian Dicke’s Work

The San Francisco Conservatory of Music’s New Music Ensemble premiered the musical work “Grand Central” by Ian Dicke, assistant professor of digital composition. The work was commissioned by the conservatory through the Hoefer Prize, an award given annually to one composition alumnus, and is scored for chamber orchestra, live audio processing, and video projections captured by photographer Elisa Ferrari and edited by the composer.

“Grand Central Terminal is one of New York City’s most cherished destinations with its famous classical façade, elaborately decorated astronomical ceiling painted by Paul César Helleu, and immense columns,” Dicke said. “This 20-minute work is inspired by the terminal’s architecture and rich cultural history.”

Dicke’s said his composition is cast in four movements: “Solari di Udine,” named after the Italian manufacturer of split-flap departure boards once used in train stations and airports around the world; “Underground,”
which prominently features the violoncello to create an intricate web of live loops, over which soaring melodic phrases are supported by winds and brass and passing subway cars punctuate the loneliness of underground station platforms; “Grand Stage,” which investigates the terminal’s microcosm of endless social exchanges through the digital and acoustic manipulation of time; and “Iron Horse,” which references the nickname given to steam locomotives in the early industrial revolution and is fast-paced, rife with layered ostinati and motives inspired by the sounds of railroading—bells, whistles, and rollicking wheels.

Susan Ossman Students Collaborate on “On the Line/Second Look”

Graduate students in Susan Ossman’s seminar on art and archaeology and faculty from UCR, La Sierra University and California Baptist University collaborated in a seminar and exhibition, “On the Line/Second Look,” on March 6. The seminar was an extension of Ossman’s “On the Line” solo exhibition at La Sierra’s Brandstater Gallery, an exhibition that contemplated clotheslines to investigate lines of all kinds.

“In California, where many housing developments outlaw clotheslines, where drawing has been erased from the school curriculum, and where writing in full lines seems a vanishing practice even among English majors, contemplation of lines might be seen as a kind of ‘salvage’ anthropology,” explained Ossman, professor of anthropology and a painter. “‘On the Line’ invokes the sensuous qualities of fabric on the line with the same nostalgia with which one might consider lost languages or civilizations. It registers my own experience of seeing a practice I took for granted while living in Europe and North Africa interpreted as a quaint survival when I moved to California.

“‘On the Line’ leads us to recall fresh laundry’s associations with purity, intimacy and propriety and to question which social bindings are loosened when the fresh scent and delicate touch of sheets on the line become just a memory. … This collaboration between anthropologists, artists, musicologists and art historians offers food for thought about interdisciplinary, collaborative research practices.”

Visual artists, anthropologists, musicians and dancers to shared the work they produced from their examinations of “On the Line,” ranging from works of art and musical performances to ethnographic fieldwork based on viewer responses, such as “recording memories of sheets on the line or jump rope jingles about hanging clothes out to dry or offering further reflections on the political economy of washing and drying cloth.” This work became part of the exhibition for the “second look,” Ossman said.

Also participating in the seminar was Christina Schwenkel, associate professor of anthropology.

Organizing Enzymes to Create Electricity

Ian Wheeldon, UCR’s assistant professor of chemical and environmental engineering, has received a $360,000 grant from the Young Investigator Program to better organize enzymes to create nanoscale devices that more efficiently convert the chemical energy of sugars and complex carbohydrates into electricity. He will receive the funding over three years.

Enzymes are often in precisely organized multi-enzyme structures and spatial organization of multi-enzyme pathways has resulted in increased power density in biofuel cells. However, there is lack of understanding of the principles that govern reaction pathway kinetics.

Wheeldon’s project is to define the relationships between multi-enzyme scaffold design and pathway reaction rate and to apply the newly developed understanding of multi-enzyme pathways to create novel anodes for enzymatic biofuel cells.

Beyond biofuel cells, other applications from this research include new synthesis routes for pharmaceuticals,
including antibiotics, and commodity chemicals, such as ethers and biofuels.

**Amir Zaki Exhibition to Open in LA**

Amir Zaki’s solo exhibition of black-and-white photographs opens at the ACME gallery in Los Angeles on March 23 and continues through April 27. An opening reception is scheduled at 6 p.m. March 23. The exhibition, “Time moves still,” will feature two series of photographs: trees that are isolated against an open sky and cropped so there is no ground, and steep cliff sides as seen from the beach along the Southern California coast, according to the gallery website. Zaki is an associate professor of art.

An exhibition by Brandon Lattu, associate professor of art, continues through April 6 at the Leo Koenig Inc. gallery in New York City. “Not Human” centers around projected slide shows and sculptural, photographic reliefs that extend his “ongoing considerations about the current ideological stakes of the photographic image in relation to the archive as well as particular legacies of Modernism, including the readymade and the monochrome,” according to the gallery website.

**Sleep Discovery Could Lead to Therapies That Improve Memory**

A team of sleep researchers led by UCR psychologist Sara C. Mednick has confirmed the mechanism that enables the brain to consolidate memory and found that a commonly prescribed sleep aid, Ambien, enhances the process. This discovery could lead to new sleep therapies that will improve memory for aging adults and those with dementia, Alzheimer’s and schizophrenia.

This groundbreaking research appears in a paper, “The Critical Role of Sleep Spindles in Hippocampal-Dependent Memory: A Pharmacology Study,” published in the Journal of Neuroscience.

Mednick and her research team demonstrated, for the first time, the critical role that sleep spindles—burst of brain activity that last for a second or less during a specific stage of sleep—play in consolidating memory in the hippocampus, and they showed that pharmaceuticals could significantly improve that process, far more than sleep alone.

“This is the first study to show you can manipulate sleep to improve memory,” said Mednick, the lead author of the paper that outlines results of two studies conducted over five years with a $651,999 research grant from the National Institutes of Health. “It suggests sleep drugs could be a powerful tool to tailor sleep to particular memory disorders.”

**Armored Caterpillar Featured on NBC Learn**

A video featuring the research of David Kisailus, an assistant professor in the Bourns College of Engineering at UCR, on the mantis shrimp, was recently released by NBC Learn, the educational arm of NBC News.

The mantis shrimp, or stomatopod, is a 4-inch long crustacean found in tropical waters. It has a bright orange fist-like club that accelerates underwater faster than a 22-caliber bullet. Repeated blows can destroy mollusk shells and crab exoskeletons.

A mantis shrimp, which has a fist-like club that can accelerate underwater faster than a 22-caliber bullet. Photo credit: Silke Baron

Kisailus believes everything from military body armor and vehicle and aircraft frames could be transformed by incorporating the unique structure of the club-like arm. In June, Kisailus and a team of researchers published a paper in the journal Science about the structure of the mantis shrimp club.

To view the NBC Learn video visit: [http://www.nbclearn.com/sciencenews/cuecard/63288](http://www.nbclearn.com/sciencenews/cuecard/63288)
Awards and Honors

March 6 to March 19, 2013

Carlos Cortés First Recipient of Local Shakers Award

“Carlos Cortés, professor emeritus of history, was honored March 6 as the first recipient of the World Affairs Council of Inland Southern California award for Local Shakers on the Global Scene. Cortés was recognized for his work on multiculturalism. That research has taken him to Latin America, Europe, Asia, Australia and Canada to lecture on the implications of diversity for education, government, private business and the mass media, the World Affairs Council noted.

Cortés’ memoir, “Rose Hill: An Intermarriage before Its Time,” was published in 2012 and has been adapted into a one-person autobiographical play, “A Conversation with Alana: One Boy’s Multicultural Rite of Passage.”

The historian serves on the faculties of the Harvard Institutes for Higher Education, the Summer Institute for Intercultural Communication, and the Federal Executive Institute. He received a 2009 NAACP Image Award for his work as the creative/cultural adviser for Nickelodeon’s Peabody Award-winning children’s television series “Dora the Explorer” and its sequel, “Go, Die, Go!”


Anderson Named 2013 Distinguished Ethnobiologist Award

Gene Anderson, professor emeritus of anthropology, has won the 2013 Distinguished Ethnobiologist Award from the Society of Ethnobiology. Anderson was recognized for his “outstanding contributions to the discipline of ethnobiology and his contributions to advancing the goals of our beloved organization,” the society said in announcing the award. Anderson will be recognized at the society’s annual conference in Denton, Texas, in May.

“This is a major recognition that showcases the vibrant research community that we have here at UCR Anthropology,” said Sang-Hee Lee, associate professor and chair of the Department of Anthropology.
