

A Dress (and Heels, Jewelry and a Little Makeup) for Success

By Konrad Nagy

It was an off-hand comment taken seriously.

That is how Nancy Jean Tubbs, director of the Lesbian Gay Bisexual Transgender (LGBT) Resource Center, ended up doing something she had not done in decades — wearing a dress.

“I remember I said something like, ‘This scholarship is so important, I would even wear a dress for it.’ And the students seemed to kind of fixate on it,” said Tubbs.

The aptly named event, “Nancy Wears a Dress,” featured Tubbs in a — well — in a dress in an effort to raise money for the Lesbian Gay Bisexual Transgender Queer Intersex and Allies (LGBTQIA) Student Leadership Scholarship for undergraduates.

Two undergraduates were chosen for the inaugural scholarship on the basis of an online application and an essay in which applicants demonstrated their leadership abilities, involvement with the on-campus LGBT community and interest in political issues related to the LGBT community.

Undergraduates Remie Rahman and Vincent La were selected to receive the \$500 scholarships.

“I was so tense when my name was called, it seemed so surreal,” said La. “In retrospect, I felt very shocked, proud, and honored that the LGBT chancellor’s advising committee chose me as a person suited for the scholarship. It fuels my ... passion to advocate for LGBT representation on campus.”

One of the goals of the LGBT Resource Center is to raise \$25,000 to endow the LGBTQIA Student Leadership Scholarship awards.

To reach that goal, the LGBT Resource Center is seeking donations from staff, faculty, students and the campus community.

In its first run, “Nancy Wears a Dress” raised about \$3,000 for the scholarship. Tubbs, who



Nancy Jean Tubbs, director of the LGBT Resource Center, shows off the 3-inch heels she wore to raise money for student scholarships.

Photo by Konrad Nagy

hasn't worn a dress in 20 years, said the idea for the event came out of a collaboration with students.

“It was a very painful process,” Tubbs joked.

Tubbs bought her dress from a store in the Galleria at Tyler. With the help of an energetic saleswoman and a colleague from housing, she chose “a little black dress.”

“They were extremely patient. I didn't enjoy the process at all, but I think they did,” Tubbs said.

On the day the scholarships were awarded, Tubbs wore the dress to work all day.

To complete her outfit, she bought a pair of 3-inch heels from Payless Shoe Source and accessorized with jewelry. In addition she had a student apply makeup which like wearing the dress, she had not done in about two decades.

On her aversion to dresses, Tubbs said, “I feel more comfortable wearing pants. It's also an important part of my gender expression. There are pictures of me in dresses as a child. So I imagine that I used to like wearing dresses when I was about 4 or 5, but not so much after that.”

Tubbs is keeping the dress.

“It's the only dress in my closet,” she said.

She said “Nancy Wears a Dress” may or may not continue. But, she said, staff, faculty, students and others are encouraged to continue donating money to help endow the scholarship.

For more information, visit www.out.ucr.edu/center/giving.htm.

Innovative Technology Gets Noticed

By Konrad Nagy

Computing and Communications received three Larry L. Sautter Awards for Innovation in Information Technology, on July 19 at the UC Computing Services Conference in Los Angeles.

C&C won a silver award for achievement in university computing for Grad SIS, the online graduate admissions system, and honorable mentions for the Chancellor's Friday Letters and for the phased Enterprise Resource Planning (ERP) approach to financial aid.

“In any given year, I would be very proud of the technical teams involved in these projects. However, during this past year, given the budget reductions and furloughs, I am particularly pleased with this recognition,” said Charles Rowley, C&C associate vice chancellor and CIO. “Of course, none of the projects would have been deployed without the guidance and invaluable input provided by our departmental colleagues and business partners.”

Grad SIS adopts a streamlined approach at assessing and assisting graduate student applicants.

“The development of Grad SIS for UCR is an extraordinary advancement toward the efficiency and success of graduate student recruitment,” said Victoria Long, director of Graduate Admissions, UCR Graduate Division.

All UC campuses have an online graduate application process, but UCR is unique with an online graduate application, evaluation and admissions process.

“This innovative program drastically reduces the need for paper documents, files and signatures while permitting multiple department users to review and process applicant information instantly,” she said. “It is a major transition from the old paper-shuffling process to a streamlined electronic environment.”

In addition to Grad SIS, UCR received praise for the success of the Chancellor's Friday Letters and the implementation of a new financial aid system. While staff and faculty may be accustomed to and familiar with such applications, their development and implementation has been not only unique to UCR, but revolutionary across the UC campuses.

“The Friday Letter has been extremely well received and has become one of the most effective ways I have for sharing the things that I see and hear with a wider audience. ... It is a tool that is successfully connecting the many and varied audiences of a large public university campus,” said Timothy White, chancellor.

Each Friday Letter reaches approximately 67,000 faculty, staff, students, alumni, donors and community members. The Friday Letters were also mentioned in The Chronicle of Higher Education as an example of the trend toward increased, strategic communication between university leadership and constituents.

Lastly, the phased approach to financial aid showcased the creativity of C&C to augment current systems, while meeting strict deadlines.

“The Banner Financial Aid integration with UCR's SIS+ system is arguably one of the most complex projects that enrollment management has asked C&C to implement.

“The timeline was aggressive and C&C, without hesitation, provided the Office of Financial Aid with the necessary expert resources and time required to seamlessly transition staff and students from SIS+ to Banner,” said LaRae Lundgren, assistant vice chancellor of enrollment management.

Established in 2000 and sponsored by the UC Information Technology Leadership Council — and named after Larry Sautter, UCR's associate vice chancellor for computing and communications before he died in 1999 — the award honors projects developed by faculty and staff in any department at the 10 UC campuses, the UC Office of the President (UCOP), and the Lawrence Berkeley National Laboratory. Since its inception, UCR has received a total of 17 Sautter awards, more than any other UC campus.

For information, visit www.ucop.edu/irc/itlc/sautter or cnc.ucr.edu and click on 2010 Information Technology Achievements Video.

UCR Changes the Location for the EH&S Facility

By Kris Lovekin

UCR will build a new Environmental Health and Safety facility on a 2.7-acre site along Watkins Drive, next to the corporation yard — a different location than originally announced.

Three years ago campus planners and design professionals, environmental safety personnel and an independent consultant team identified this location as the best place for a larger facility to meet the needs of a growing campus.

But because neighbors expressed concerns about a facility that handles chemical waste, the campus administration decided on another piece of land, near Highway 60 and the Martin Luther King Boulevard offramp.

The budget crisis delayed construction, and the master planning process for the West Campus has affirmed the need for a larger parking garage to serve the future medical school and other professional and graduate schools on the west campus, said Don Caskey, campus architect.

Because of that decision, Caskey said, there is no longer room for the EH&S facility on the west campus and it will return to the east campus location originally judged to be the best. He said he anticipates that people

in the neighborhood are going to feel that the university is going back on a commitment.

“We have already reached out to the neighbors near the site and will continue to work cooperatively with them throughout this process,” Caskey said. The campus will host two community meetings Sept. 8 and Oct. 6, in addition to an open house.

“We need to inform our neighbors of capital development plans that are underway,” he said.

EH&S is charged with enforcing protocols and guidelines for overall environmental health and safety on the campus, including monitoring and disposing of chemicals and waste used in research labs. As part of that responsibility, EH&S is a licensed holding facility for hazardous materials that are regularly picked up and removed from campus.

During a public open house in September, EH&S staff will offer tours and explain how they safely handle research-related waste, including small amounts of radioactive, chemical and medical waste. They also hold and transport the kinds of things that are in every household — such as batteries, fluorescent light tubes, paint and petroleum products. Twice a month trucks come in to pick up material for licensed

disposal.

“UCR has a good safety record when it comes to handling those materials, and it is, in fact, a good thing for the campus to expand and modernize the facility,” Caskey said. “This facility is not a threat. In fact, we believe this facility is one of the investments that UCR is making to ensure that the campus will continue to operate safely.”

It will take a nearly a year to complete environmental impact assessments and design work, and another year to build the 30,000-square-foot facility at a cost of \$20 million. The building will include offices, training rooms, a loading dock and a warehouse for storing chemicals.

The construction will take place next to the fleet services facility and the corporation yard, which provides facilities maintenance services for the entire campus.

“UC Riverside is a research institution, and is tasked with pursuing new knowledge. We understand and embrace our responsibility to teach and pursue research while safely handling and disposing of all the daily operational and hazardous materials that make these missions possible,” Caskey said.

Jonathan Turner Named University Professor

By Betty Miller

Jonathan Turner, distinguished professor of sociology, has been named a University Professor by the University of California Regents. He becomes the 37th scholar in the UC system to be so honored since 1960.

The title of University Professor is reserved for scholars of international distinction who are also recognized as scholars and teachers of exceptional ability. University Professors visit other UC campuses to give seminars and presentations.

Turner is one of two professors currently on the UCR campus to receive the honor. The other is Robert Rosenthal, distinguished professor of psychology. The late Emory Elliott, professor

of English and director of the Center for Ideas and Society, was named a University Professor in 2001. Arturo Gomez-Pompa, distinguished professor of botany emeritus, was named a University Professor in 1999.

“I am incredibly honored to be named University Professor, especially since there have only been 36 before me over the last 50 years in the UC system,” Turner said. “As someone who began his career at UCR in 1960 as a freshman, and now some 50 years later to be honored in this way is highly gratifying, to say the least, and gives pause to think about my academic life.”

Turner is one of the preeminent sociologists of his generation, said Stephen Cullenberg,

dean of the UCR College of Humanities, Arts and Social Sciences.

“He has made foundational contributions in sociological theory, as well as in various applied fields, including the sociology of emotions, ethnic relations, social institutions, social stratification, and bio-sociology,” the dean said. “He is only the second sociologist in the last 50 years to be named a University Professor in the UC system. This recognition by the regents is a distinct honor for him and for UCR, and it is richly deserved.”

Turner joined the UCR faculty in 1969.



Jonathan Turner

Getting Personal



John Medina

Name: John Medina

Department: Departments of art and the history of art

Job: Academic personnel coordinator

Length of employment at UCR: Five years

My work: I establish leadership for administrative activities involving academic personnel; coordinate and advise departments on recruitments, appointments and advancement; am responsible for procedures and administration for the Unit 18 employees (lecturers); and guide faculty and staff through benefits and payroll.

Things you should know: I earned my B.A. in dance in 1999 and

was one of the first to minor in LGBT studies. In 2003, I earned my J.D. from Rutgers. Throughout my law school career I worked with several public interest organizations in New York City, and after graduation I joined the ACLU as a legal associate. In 2005, I returned to California and immediately began working at my alma mater. Since my return to the West Coast, I established DanceParadigm with UCR alumnus Eric Lorico as a vehicle to create and present our work. I also became the artistic director of Dancers for Life, an annual AIDS benefit dance concert. I enjoy yoga, swimming, travel, literature, laughter, presence of friends, good bread, decadent desserts, extra-large dunkaccinos and living simply. I support causes for equality. I live with my partner, John Master, who received his Ph.D. in history at UCR; together, we are raising a beautiful 7-year-old daughter, Xylia (*zy-lee-ah).

Levin Settles into New Position as Interim Dean

By Sean Nealon

Less than two months into his tenure as interim dean of the Graduate School of Education, John Levin already has a list of priorities: raise the school's national profile through research, recruit more graduate students and increase the school's community presence.

The steps to accomplish this include: adding new faculty positions, including an endowed chair in the area of learning disabilities; establishing an undergraduate education minor; and working with those who will teach in the soon-to-be established medical school.

"I don't think we need a radical departure from what we have been doing," Levin said. "But, I think we need to make a name for ourselves. Raise our profile."

Levin was named interim dean in April and took over July 1. He replaces Steven Bossert, who, after six years as dean, is returning to full-time research and teaching.

Levin will continue his research on higher education and continue to direct the California Community College Collaborative (C4), a community college policy and research center at UCR.

Levin is settling in. He hired an

executive assistant, Marie Martin, from a pool of 270 applicants. He is contemplating, and getting advice from GSOE staff on what his office should look like.

Meetings with Graduate School of Education faculty, staff, and administrators and university leadership have helped Levin lay out his priorities.

First, he wants faculty to seek more grants. Using the guidelines from the UCR 2020 strategic plan, he wants to build on the school's strengths, including special education, higher education, school psychology, social and cultural studies, the study of disadvantaged children and adults, and teacher education.

He hopes this will be aided by a national search, which is expected to begin for an endowed chair in the area of learning disabilities. He also wants to add a second faculty member who will focus on under-represented minorities and diversity issues.

Second, over time he wants to add 200 more master's and Ph.D. students. Currently, most graduate students come from local communities and work while attending classes.

He and the faculty want to start

recruiting students nationally. To attract those students, the school needs to offer financial support. Levin is hoping that can be done, in part, through teaching assistantships that would come along with creating an undergraduate education minor. He hopes the faculty can work toward establishing the minor within two years.

Third, he wants to increase the school's public and university profile. He is encouraging faculty to attend community and educational events and seek out opportunities to be cited in the popular press. He has already started setting up meetings with area school superintendents.

He also believes faculty from the School of Education will play a role in teaching medical school faculty about pedagogy when the school opens.



John Levin

People

CNAS Names Three New Department Chairs

Three new department chairs assumed their positions in CNAS on July 1.

Mikeal Roose, professor of genetics and geneticist, is the new chair of the Department of Botany and Plant Sciences. He replaces **Jodie Holt**, professor of plant physiology and plant physiologist.

Roose studies the development and implementation of improved methods for crops, especially for citrus and asparagus. He and his team have developed a number of new varieties, including the Gold Nugget and Tango mandarins.

Michael Anderson, professor and soil chemist in the Department of Environmental Sciences, has replaced **Jay Gan**, professor of soil science and Cooperative Extension specialist.

Anderson studies the management of lakes and reservoirs; surface water quality and modeling; contaminants in soils, sediments, and waters; and environmental chemistry.

James Baldwin, professor of nematology and chair of the Department of Nematology, has taken on additional responsibilities as chair

of the Department of Plant Pathology and Microbiology. He replaces **Michael Allen**, professor of plant pathology and director of the Center for Conservation Biology.

Baldwin has been chair of the Department of Nematology since 2001. He also was chair from 1990 to 1995. He specializes in systematics, testing hypotheses of nematode evolution through comparative reconstruction and developmental biology of character-rich nematode structures. He teaches a number of lower- and upper-level courses in nematology. He is a fellow of the American Association for the Advancement of Science and the Society of Nematologists.

Development Officer Joins CNAS Team

Jo Ann Anderson has joined UCR as the associate director of development for the College of Natural and Agricultural Sciences.

Anderson has more than 18 years of development experience in academia and with nonprofit organizations. Her most recent position was with the Alzheimer's Association as the national associate director for the western region.

Previously, she served as the director of institute affairs at the Neurosciences Institute and vice president for the Scripps Foundation for Medicine and Science in San Diego.

Yates on National Water Council

Marylynn Yates, a professor of environmental microbiology, has been appointed to the National Research Council (NRC)'s Water Science and Technology Board (WSTB), a multidisciplinary group of experts that provides advice to governmental agencies and the nation on water resources issues.

The NRC is the operating arm of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine.

WSTB was created in 1982 to identify emerging water issues, organize and oversee water-related studies, and to help strengthen the scientific basis for water resources decision-making across the United States. Members generally serve for staggered three-year terms.

Bertrand Appointed Associate Editor

Guy Bertrand, a distinguished professor of chemistry, has been appointed an associate editor of **Chemical Reviews**, one of the most highly regarded and highest-ranked journals covering the general topic of chemistry. As associate editor, Bertrand, the first chemist at UCR to be appointed to the position, will be in charge of manuscripts in the fields of organic, inorganic and organometallic chemistry. In addition to general reviews, the journal, which enjoys the highest "ISI Impact Factor in Chemistry," publishes periodic thematic issues focusing on a single theme or direction of emerging research.

Who Says?

"[Republicans are] trying to recapture the reputation they had prior to (President George W.) Bush as being fiscally prudent. They lost the rhetorical high ground on this issue. You can't be good on (fiscal issues) if you're borrowing money to give people tax cuts and running two wars."

Benjamin Bishin, associate professor of political science, on unemployment in the Inland Empire and delays by the Republican Party in Congress in extending unemployment benefits.
SAN BERNARDINO SUN

"The only way to increase the quality of health care and decrease costs is to increase primary care. We're trying to prepare doctors for the new reality."

Dr. G. Richard Olds, founding dean of the UCR School of Medicine, on his praise of President Barack Obama's health care reform law, signed in March.
THE DESERT SUN

"In Riverside, we're essentially living on top of a large Argentine anthill. This presents a problem because whatever bait you use, you have to use a lot of it. On the West Coast, there's a lot of concern about the quality of our waterways, and the fear is that a lot of fouling is the result of Argentine ant treatment."

Michael Rust, professor of entomology, on the growing threat of Argentine ants in Southern California to humans, other insects, and water quality.
ESQUIRE

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Give, Give, Give: Is it Really a Good Thing?

By Bettye Miller

Is generosity contagious? How does generosity inspire others? Is it really better to give than to receive?

These are among the questions psychology professor Sonja Lyubomirsky and graduate student Joseph Chancellor will explore in a two-year study, "Ripples of Generosity: Triggers, Social Propagation, and Outcomes," funded by a \$150,000 grant from the Science of Generosity initiative at the University of Notre Dame. The UCR proposal was one of nine funded out of 327 submitted.

Lyubomirsky and Chancellor will record and analyze acts of generosity among 300 employees who work at a company in Japan that has developed a device that tracks movements and social interactions of individuals.

Lyubomirsky, known internationally for her research on happiness, said the research project will attempt to answer these questions: Is generosity contagious? How does generosity inspire others? Can generosity measurably influence individuals whom the giver has never met

directly? Is giving really better than receiving?

"We will test whether acts of generosity can propagate across a social network, how they propagate, and how far benefits can travel," she and Chancellor wrote in their grant proposal. "To this end, we seek to examine the mechanisms and outcomes of 'ripples' of generosity from one person to another in a social network."

Lyubomirsky and Chancellor argue that generosity can be triggered by someone who performs an act of kindness, someone who is the target of an act of kindness, or someone who interacts socially with a giver or receiver. The study will explore the underlying mechanisms of generosity, how they differ among groups, and the long-term ripple effect on an individual's well-being, social relationships, work productivity, and physical health, they wrote.

Performing generous acts makes the giver, the receiver, the connector and the observer happier, which has many benefits, they said.

Awards & Honors

Miller Elected Fellow of Entomological Society

For his outstanding contributions to entomology, **Thomas Miller**, a professor of entomology, has been elected a fellow of the prestigious Entomological Society of America (ESA), the largest organization in the world serving the professional and scientific needs of entomologists and people in related disciplines.

This year, Miller and only nine others were elected to this honor. They will be recognized at the annual meeting of the ESA in San Diego in December.

Currently, Miller has taken a one-year appointment as a Jefferson Science Fellow at the U.S. State Department.

Founded in 1889, the Entomological Society of America is a nonprofit organization serving the scientific and professional needs of more than 6,000 entomologists and individuals in related disciplines.

Holt Honored for Academic, Scientific Achievement

Jodie Holt, a professor of plant physiology and the botanical consultant for James Cameron's film "Avatar," will receive the Paul Ecke Jr. Award of Excellence "for her life's work as a distinguished scientist

and educator" at a ceremony beginning at 5 p.m., Sept. 11, at the San Diego Botanic Garden, 230 Quail Gardens Drive, Encinitas, Calif.



Jodie Holt

Holt shaped Sigourney Weaver's character as a botanist in "Avatar" and helped create and name plants for the film. Her involvement with the film and her subsequent outreach to the public helped raise awareness of botany and its importance in people's imagination. At UCR, her lab conducts research in the ecology of weedy and invasive plants in order to contribute ecologically sound weed management practices.

Established by the San Diego Botanic Garden in 2002, the award recognizes exceptional achievement by an individual or group in one or more of the following categories: Education about plants and their roles in the environment; conservation of native plants and wildlife, or other rare and endangered plants; creation or preservation of public places for enjoying the beauty of the natural world; and preservation or re-creation of historically significant plantings and structures.

Research & Scholarship

Grant Funds New Technology

UCR has received a \$1 million grant from the National Science Foundation Major Research Instrumentation Program to acquire an X-ray Photoelectron Spectroscopy (XPS) instrument.

"This is a very useful instrument for the characterization of surfaces in terms of composition and the state in which the elements are on those surfaces, and is used in many studies in materials science," said **Francisco Zaera**, a distinguished professor of chemistry and the principal investigator of the grant.

The instrument, which is expected sometime around the summer of 2011, will greatly enhance UCR's capabilities in ongoing and future materials-oriented research projects.

Researchers on campus will be able to use XPS for a fee to cover running expenses. Details on the housing and operation of the instrument are still being worked out.

Deficiency Fuels Study

Vitamin D surfaces as a news topic every few months, with many articles linking the vitamin with good overall health. But how much daily vitamin D should a person get?

In an interview with *Endocrine Today*, **Anthony Norman**, an international expert on vitamin D, reports that half the people in North America and Western Europe get insufficient amounts of the vitamin; elsewhere, the situation is worse.

"There is a wide consensus among scientists that the relative daily intake of vitamin D should be increased to 2,000 to 4,000 international units (IU) for most adults,"

Norman said. "A 2,000 IU daily intake can be achieved by a combination of sunshine, food, supplements, and possibly even limited tanning exposure."

Currently, the recommended daily intake of vitamin D is 200 IU for people up to 50 years old; 400 IU for people 51 to 70 years old; and 600 IU for people over 70 years old.

Because vitamin D is found in very few foods naturally (e.g. fish, eggs and cod liver oil) other foods such as milk, orange juice, some yogurts and some breakfast foods are fortified with it. The fortification levels aim at about 400 IU per day.

Reporting in a review paper in the July 28, issue of *Experimental Biology and Medicine*, Norman and Roger Bouillon of the Laboratory of Experimental Medicine and Endocrinology at the Katholieke Universiteit in Leuven, Belgium, propose worldwide policy changes regarding people's vitamin D daily intake in order to maximize the vitamin's contribution to reducing the frequency of many diseases.

Photographs Displayed

Photographs by **Devra Weber**, associate professor of history, were part of an exhibit at the Mexican Cultural Institute of Los Angeles in July commemorating the 40th anniversary of the Chicano Moratorium, an East Los Angeles antiwar march of thousands.

Weber, a photographer for two Chicano newspapers in the late 1960s, also participated on a panel with other photographers of the Chicano movement at the institute.

Guppy Growth Informs Research

Working on guppies, **Sonya Auer**, a Ph.D. graduate student in the lab of **David Reznick**, a professor of biology, has found that female guppies that had limited food available to

them early in life and followed it by rapid growth in adolescence had fewer offspring than usual in adulthood.

According to the researchers, the compensatory growth phase could be interfering with the development of reproductive structures or it could be decreasing the amount of energy available for reproduction.

The research sheds light on how organisms — including humans — respond to changes in their environment, such as food availability.

Study results appear in the August issue of *Ecology Letters*.

Auer and Reznick were joined in the research by **Jeffrey D. Arendt**, a research associate, and **Radhika Chandramouli**, an undergraduate who work in Reznick's lab.

Study Links Nitrogen with Fire

Research funded by a National Science Foundation Biocomplexity Grant to **Edith B. Allen**, from the Department of Botany and Plant Sciences, will be featured in two new publications. The research shows the relationship between nitrogen deposition from air pollution, invasive plant productivity, and fires in the California deserts.

The papers were "Combined Effects of Precipitation and Nitrogen Deposition on Native and Invasive Winter Annual Production in California Deserts," which appeared in *Oecologia*; and "Risk-Based Determination of Critical Nitrogen Deposition Loads for Fire Spread in Southern California Deserts," which appeared in *Ecological Applications*.

Fire frequency has been increasing in the desert, often fueled by increased production of invasive grasses from the Mediterranean. Nitrogen oxides from automobile emissions are deposited across the landscape in the form of nitrate, a plant fertilizer that is especially conducive to growth of invasive grasses.

Nitrogen fertilization experiments and gradients of nitrogen deposition downwind of the Los Angeles air basin were used to measure plant production under elevated nitrogen, and coupled with a biogeochemical production model. These showed that areas of high nitrogen deposition

will be susceptible to grass invasion, particularly in wet years, potentially reducing native species abundance and increasing the risk of fire.

The work was part of the doctoral dissertation studies of Leela E. Rao, with co-principal investigator Thomas Meixner, formerly of the Department of Environmental Sciences.

Urban-Suburban Migration

David Swanson, professor of sociology, will present a paper co-authored with Jerome McKibben, president of McKibben Demographic Research, at the 2010 European Population Conference in Vienna in September.

The paper — "Urban-Suburban Migration Patterns in the United States, 2004-08: The Beginning of the End for Suburbanization?" — examines dramatic changes in the levels and patterns of short-distance mobility trends in the United States. Swanson and McKibben found that while sub-prime mortgages fueled the housing boom of 2003-06 and an acceleration of Americans moving from central city urban areas to neighboring suburban counties, the collapse of new and existing housing markets led to a dramatic reversal of that trend.

Using Internal Revenue Service county-to-county migration data from 2003 to 2008 from 19 selected metropolitan areas around the country, the paper shows that "most center-city counties experienced a marked improvement in their migration trends after 2006.

Further, the surrounding suburban counties have seen their levels of net in-migration noticeably reduced," Swanson said.

Swanson also presented a paper at the 45th annual Actuarial Research Conference at Simon Fraser University, Burnaby, British Columbia, in July, and co-lead a discussion of the Census Bureau's American Community Survey at the Metropolitan Planning Organization/Council of Governments Research Conference in San Diego in July.

E-cigarettes: Smoke and Mirrors

Stronger suction is required to smoke "electronic cigarettes" than conventional brands, with possible adverse effects on human health, **Prue Talbot's** lab reported last month in *Nicotine and Tobacco Research*.

E-cigarettes are marketed as a relatively new type of tobacco-free nicotine delivery device, consisting of a battery, a charger, a power cord, an atomizer, and a cartridge containing nicotine and propylene glycol.

When a smoker draws air through an e-cigarette, an airflow sensor activates the battery that turns the tip of the cigarette red to simulate smoking and heats the atomizer to vaporize the propylene glycol and nicotine. Upon inhalation, the aerosol vapor delivers a dose of nicotine into the lungs of the smoker, after which, residual aerosol is exhaled into the environment.

Talbot and her colleagues found that except for one brand, higher vacuums were required to smoke e-cigarettes than conventional brands.

The researchers also found that in the case of e-cigarettes, the aerosol density dropped after the first 10 puffs, requiring still stronger suction thereafter to produce aerosol.

This means that users must exert greater inhalation pressure, which could cause the aerosol to reach deeper tissue in the user's lungs, the health effects of which are unknown.

Talbot, the director of the UCR Stem Cell Center, was joined in the research by UCR's **Anna Trtchounian** and **Monique Williams**.

Program Gets Training Grant

The Environmental Toxicology program has received a National Institute of Environmental Health Sciences institutional training grant of more than \$1 million to enable the training of graduate students and post-docs working in the area of environmental toxicology.

"The training grant will provide additional support to the Environmental Toxicology and related graduate programs," said **Yinsheng Wang**, a professor of chemistry and the five-year grant's principal investigator.

The total amount of money is \$1.09 million, and all the money will come to UCR.

No other institute is involved. **David Eastmond**, the chair of the Department of Cell Biology and Neuroscience, is the co-principal investigator of the grant.

A Baby, Skype and Water Research Partnership

A year ago, Sharon Walker, an associate professor of chemical and environmental engineering at the Bourns College of Engineering, flew to Israel with support from a Fulbright fellowship to study water quality and sustainability issues in a similarly arid environment.

She returned in June with a deep familiarity with Skype, a baby daughter and a grant to develop a collaborative program on water sustainability with Ben-Gurion University of the Negev in Israel.

Her daughter, Ma'ayan, is now 5 months old. Walker spent 10 hours a week on Skype communicating with her six doctoral students. And the \$147,000 grant from the U.S. Department of Agriculture National Institute of Food and Agriculture kicked off last month with an Israeli scholar's visit to UCR.

In the coming years, Walker, the John Babbage Chair in Environmental Engineering at UCR, hopes research and exchanges between UCR and Ben-Gurion faculty and graduate students will help the U.S. follow Israel's lead in sustainable water use.

The following UCR faculty will participate: Chris Amrhein, David Cwiertny, Ariel Dinar, Jay Gan, Mark Matsumoto, Jirka Simunek, Laosheng Wu, Yushan Yan and Marylynn Yates.

With co-principal director Moshe

Herzberg of Ben-Gurion, Walker will establish an international, interdisciplinary research and education collaboration with the goal of developing innovative approaches to water management for agricultural uses, especially in desert areas.

The project, "Water Sustainability in Desert Agriculture: Enhancing relationships with global competency of graduate students and faculty through collaboration with Israel," has three components:

- Hands-on experience with Israel's water management and agricultural research in short visits for faculty and extended visits for students.
- Shared materials for undergraduate and graduate course development to enhance the international content of existing courses at UCR and Ben-Gurion.
- Dissemination of information to assist U.S. scholars in becoming acquainted scientifically and culturally with Israeli water management and research, particularly its effect on sustainable agriculture in desert regions.

The project will link 10 UCR faculty members in the Bourns College of Engineering and the College of Natural and Agricultural Sciences. Ultimately, faculty and students will share their findings with researchers at UCR and Ben-Gurion, and agricultural professionals, such as those at UCR Cooperative Extension.

Childhood Traits Stick with Us for Life

By Bettye Miller

Personality traits observed in childhood are a strong predictor of adult behavior, a study by researchers at UCR, the Oregon Research Institute and University of Oregon suggests.

The study appears in the online edition of the journal *Social Psychological and Personality Science*, a quarterly publication of the Association for Research in Personality, the European Association of Social Psychology, the Society of Experimental Social Psychology, the Society for Personality and Social Psychology, and co-sponsored by the Asian Association of Social Psychology and the Society of Australasian Social Psychologists.

Using data from a 1960s study of approximately 2,400 ethnically diverse, elementary-aged children in Hawaii, researchers compared teacher personality ratings of the students with videotaped interviews of 144 of those individuals 40 years later.

What they discovered was surprising, said Christopher S. Nave, a UCR Ph.D. candidate and lead author of the paper, "On the Contextual Independence of Personality: Teachers' Assessments Predict Directly Observed Behavior After Four Decades."

Co-authors of the paper are

David C. Funder, UCR professor of psychology; Ryne A. Sherman, a UCR doctoral candidate; Sarah E. Hampson, a researcher at the Oregon Research Institute; and Lewis R. Goldberg, professor of psychology emeritus at the University of Oregon. The research was sponsored by the National Institute on Aging through a grant to the Oregon Research Institute.

"We remain recognizably the same person," Nave said. "This speaks to the importance of understanding personality because it does follow us wherever we go across time and contexts."

The researchers examined four personality attributes — verbally fluent, adaptable, impulsive and self-minimizing. They found that youngsters identified as verbally fluent — defined as unrestrained talkativeness — tended, as middle-aged adults, to display interest in intellectual matters, speak fluently, try to control the situation, and exhibit a high degree of intelligence. Children rated low in verbal fluency by their teachers were observed as adults to seek advice, give up when faced with obstacles, and exhibit an awkward interpersonal style.

Children rated as highly adaptable — defined as coping easily and successfully with new situations — tended, as middle-aged adults,

to behave cheerfully, speak fluently and show interest in intellectual matters. Those who rated low in adaptability as children were observed as adults to say negative things about themselves, seek advice and exhibit an awkward interpersonal style.

Students rated as impulsive as adults were inclined to speak loudly, display a wide range of interests and be talkative. Those who were rated low on impulsivity were observed, as adults, to be fearful or timid, keep others at a distance.

Children whose teachers rated them as having a tendency to self-minimize — defined as humble, minimizing their own importance or never showing off — as adults were likely to express guilt, seek reassurance, say negative things about themselves and express insecurity.

Those who were ranked low as self-minimizing were observed as adults to speak loudly, show interest in intellectual matters and exhibit condescending behavior.

Further study will expand knowledge that "one's personality has important outcomes associated with it," Nave said.

In addition, future research will "help us understand how personality is related to behavior as well as examine the extent to which we may be able to change our personality."

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UCR Gets Google Grant to Digitize Archive of Old Books

By Bettye Miller

UCR and Eastern Connecticut State University have received a \$50,000 grant from Google to improve descriptions of books published before 1801 that are part of the Google Books digitized archive.

Google, the world's most popular search engine, in July announced 12 grants totaling \$479,000, the first in its Digital Humanities Research Awards program. The company has established a growing digital archive containing more than 12 million books in more than 400 languages, including one of the largest collections of digitized early modern books.

Brian Geiger, director of UC Riverside's Center for Bibliographical Studies and Research, said center staff and Benjamin Pauley, associate professor of English at Eastern Connecticut, will compare metadata about books in Google Books that were published before 1801 with descriptions of those books contained in the English Short-Title Catalog at UCR. In addition to the author and book title, metadata includes such details as the printer and year of publication, a physical description of the book, where copies of the originals are located, and general

notes. Such information is critical for scholars, Geiger said, and is too often missing from the Google Books database.

Google Books has amassed scans of tens of thousands of books published before 1801, a period known to historians as the "hand-press era," Geiger said. The archive has tremendous potential for transforming teaching and research in the humanities, especially for students and scholars at institutions that cannot afford access to costly commercial collections.

In announcing the awards Google said the recipients were selected "in part because the resulting techniques, tools and data will be broadly useful: they'll help entire communities of scholars, not just the applicants." The grant is eligible to be renewed for an additional year.

"This remarkable collection offers great potential for students and scholars of the early modern era (roughly the 17th and 18th centuries). But it suffers from one shortcoming: The metadata at Google Books is too inconsistent and cursory to allow for serious, detailed study of the books that the service holds," Geiger

wrote in the grant application. "In a period in which type was set by hand and print runs were small, there can be considerable variation among seemingly identical titles. These differences, even when small, often have substantial repercussions for understanding a time period or topic. For scholars of this era, whether they are in English, history, or interdisciplinary fields, the task is often not simply to find a text, but to understand which text they have found."

The English Short-Title Catalog contains the highest quality records available of printed copies of books published before 1801, Geiger said. Begun in the late 1970s, the catalog endeavors to record all surviving copies of works published anywhere in English or in any language in Great Britain and its dependencies from 1473 to 1800. It is a joint effort of the British Library, the CBR, and contributing libraries throughout the world that has grown to approximately 500,000 items and 4 million holdings. The catalog is widely regarded as the single most authoritative source for the identification of early modern editions.

Repeat After Me: Read My Lips

Humans are incessant imitators. We unintentionally imitate subtle aspects of each other's mannerisms, postures and facial expressions. We also imitate each other's speech patterns, including inflections, talking speed and speaking style. Sometimes, we even take on the foreign accent of the person to whom we're talking, leading to embarrassing consequences.

New research by UCR, published in the August issue of the journal *Attention, Perception, & Psychophysics*, shows that unintentional speech imitation can even make us sound like people whose voices we never hear.

The journal is published by The Psychonomic Society, which promotes scientific research in psychology and allied sciences.

Psychology professor Lawrence D. Rosenblum and graduate students Rachel M. Miller and Kauyumari Sanchez found that when people lipread from a talker and say aloud what they've lipread, their speech sounds like that of the talker.

The researchers asked hearing individuals with no formal lipreading experience to watch a silent face articulate 80 simple words, such as tennis and cabbage. Those individuals were asked to identify the words by saying them out loud clearly and quickly.

To make the lipreading task easier, the test subjects were given a choice of two words: e.g., tennis or table. They were never asked to imitate or repeat the talker.

Even so, the researchers found that words spoken by the test subjects sounded more like the words of the talker they lipread than did words they spoke when simply reading from a list. That finding is evidence that unintentional speech imitation extends to lipreading, even for normal hearing individuals with no formal lipreading experience, they wrote in a paper titled "Alignment to Visual Speech Information."

"Whether we are hearing or lipreading speech articulations, a talker's speaking style has subtle influences on our own manner of speaking," Rosenblum says. "This unintentional imitation could serve as a social glue, helping us to affiliate and empathize with each other. But it also might reflect deep aspects of the language function. Specifically, it adds to evidence that the speech brain is sensitive to — and primed by — speech articulation, whether heard or seen. It also adds to the evidence that a familiar talker's speaking style can help us recognize words."

The research project was funded by a grant from the National Institutes of Health's National Institute on Deafness and Other Communication Disorders.

Mobile Emissions Laboratory: Taking It to the Streets

By Sean Nealon

The 53-foot-long tractor trailer that houses UCR's mobile emissions laboratory was recently on the road traveling on Interstate 10 between Redlands and Beaumont, testing ways to better measure particulates from diesel trucks and buses.

With funding from the California Air Resources Board, a team of UCR researchers from the Bourns College of Engineering and the Center for Environmental Research and Technology (CE-CERT), are attempting to improve and better understand a method to measure diesel particulate emissions developed in recent years in Europe.

The research could provide the groundwork for the board to strengthen standards for diesel particulates, said Kent Johnson, principal investigator in the emissions and fuels research group at CE-CERT.

The European researchers proposed counting solid diesel particles using particle instruments in addition to weighing them after collecting them in a filter, known as the gravimetric method.

New diesel trucks and buses in the United States and Europe come with a diesel particulate filter to meet current emission standards. However, the gravimetric method does not have enough sensitivity to measure the low emissions from new diesel trucks. UC Riverside researchers expect that diesel particle regulations can become stricter as more robust measurement methods are developed.

Johnson is working with: Heejung Jung,



Kent Johnson explains how the mobile emissions laboratory works with the truck parked along Interstate 10 in Redlands.

a professor at UC Riverside; Tom Durbin, a research engineer at CE-CERT; David Cocker, an associate professor at UC Riverside; and David Kittelson, a professor of mechanical engineering at the University of Minnesota. Lab technicians/engineers Don Pacocha, Joe Valdez, Eddie O'Neil and undergraduate students Eric Wittenmeier and Spencer Fish are also part of the team.

In late July, CE-CERT conducted testing for the California Air Resources Board using a heavy duty vehicle chassis dynamometer, a computer-controlled set of motors and analyzers that mimics driving conditions, road grades and cargo loads and provides emission

readings.

On July 30 and Aug. 2, they took the testing to the road, conducting six trials.

Filled with mobile emissions testing equipment, the truck traveled 14 miles between the California Street and San Timoteo Canyon exits of Interstate 10.

The research is the latest project for the mobile emissions testing laboratory, which, in the past 10 years, has been responsible for more than \$10 million in research at the center. That research has helped establish benchmarks and the scientific basis for state and federal air quality standards and regulations.

Campus Calendar

Ongoing

UCR/ California Museum of Photography

Exhibition: "But first, define the mountain" features two bodies of work that consider the ever-changing topography of the metropolitan Los Angeles area and the Mojave Desert. This exhibition is an extension of Joey Lehman Morris's long-standing concerns with the histories and functions of land use, photography and sculpture. The exhibit runs through Oct. 31.



But first, define the mountain

Exhibition: "Library of Dust" was created in a hospital, in a room filled with copper canisters containing the ashes of inmates who had died. Many cans had a livid blue-green fur of corrosion on the exterior. Photographed at close range on black felt, each canister became a civilian counterpart to the Tomb of the Unknown Soldier—honoring the abandoned and the forgotten. The exhibit opens Aug. 31 and runs through Jan. 1, 2011.

Exhibition: "History's Shadow" is a work still in progress, much like David Maisel's previous series, "Library of Dust." The subjects are X-rays of Western or Asian sculpture originally made for conservation purposes. Maisel's unvarying, frontal photographs give the impression of gazing inside history itself. The exhibit opens Aug. 31 and runs through Jan. 1, 2011.

The UCR/CMP and the Sweeney Art Gallery are located in the 3800 block of Main Street, Riverside. Information: www.artsblock.ucr.edu.

August

19 Thursday

Enrichment: Retirees Computer Workshop, 1-3 p.m., Orbach Science Library Room 122. Free. The event runs through Nov. 25. Information: www.emeriti-retirees.ucr.edu.

20 Friday

Enrichment: Growing Plumerias, The Flowers of Love, 6-9 p.m., UCR Extension Center. \$59, \$49 multiple enrollment discount. Information: www.extension.ucr.edu or (951) 827-4105.



Growing Plumerias, The Flowers of Love

21 Saturday

Enrichment: UCR Iyengar Yoga Institute Summer 2010 Weekend Seminar and Workshop: Yoga Philosophy and the Practice of Asana, 9 a.m.-4 p.m., UCR Extension Center. \$125. Information: www.extension.ucr.edu or (951) 827-4105.

Enrichment: Writing Children's Books, 9 a.m.-3 p.m., UCR Extension Center. \$145. Information: www.extension.ucr.edu or (951) 827-4105.

Enrichment: The Art of Bookmaking, 10 a.m.-2:30 p.m., UCR Extension Center. \$85. Information: www.extension.ucr.edu or (951) 827-4105.



The Art of Bookmaking

23 Monday

Training: Advanced Composition for Educators, Part I, online. \$545. Information: www.extension.ucr.edu or (951) 827-4105.

Recreation: Bridge Group at the Janet Goeske Center, 12:30-3:30 p.m., Janet Goeske Center. Free. The event runs through Dec. 27. Information: www.emeriti-retirees.ucr.edu.

25 Wednesday

Training: Career Discovery Series-Your Roadmap to Success at UCR, 2-5 p.m., Human Resources Building (Personnel) Suite I. \$10. Information: www.hrtraining.ucr.edu.

26 Thursday

Seminar: Live Wise Live Well Series — Gaining Perspective, noon-1 p.m., HUB 268. Free, online enrollment required. Information: www.ucrlearning.ucr.edu.

Seminar: "Hurricane Katrina: What Went Wrong," noon-1 p.m., Orbach Science Library, Room 240. Free. Information: www.library.ucr.edu/events.

September

1 Wednesday

Enrichment: Orientation to the Yoga Certificate Programs, 6-8 p.m., UCR Extension Center. Free. Information: www.extension.ucr.edu or (951) 827-4105.



Orientation to the Yoga Certificate Programs

7 Tuesday

Training: Benefits Orientation, 8:30 a.m.-noon, Human Resources Building (Personnel) Suite I. Free. Information: www.hrtraining.ucr.edu.

9 Thursday

Training: Overview of Leave of Absence (FML, CFRA, PDL) for Staff and Academic Employees, 1-4 p.m., Human Resources Building (Personnel) Suite I. \$10. Information: www.hrtraining.ucr.edu.

10 Friday

Reception: Twilight Tour UCR Botanic Gardens, 6:30-8 p.m., Botanic Gardens. \$15 adults, \$7.50 for 16 years of age and under, reservations required. Information: www.gardens.ucr.edu.

11 Saturday

Training: Introduction to Response to Intervention, 8 a.m.-6 p.m., UCR Extension Center. \$430, reservations required. Information: www.extension.ucr.edu or (951) 827-4105.

14 Tuesday

Training: Effective Use of Computer-Based Technology: An Integrated Approach for the Classroom, Level I, online. \$545, registration required by Sep. 9. Information: www.extension.ucr.edu or (951) 827-4105.

15 Wednesday

Training: Autism Spectrum Disorder Information Meeting, 4:30-6 p.m., UCR Extension Center. \$25, reservations required. Information: www.extension.ucr.edu or (951) 827-4105.

16 Thursday

Training: Creating Effective Individual Development Plans (IDP), 2-4 p.m., Human Resources Building (Personnel) Suite I. \$10. Information: www.hrtraining.ucr.edu.

18 Saturday

Training: Positive Communication Skills for Educators and Parents, 8:30 a.m.-2 p.m., UCR Extension Center. \$345, reservations required. Information: www.extension.ucr.edu or (951) 827-4105.

21 Tuesday

Training: Clarifying Performance Expectations, 8:30 a.m.-noon, Human Resources Building (Personnel) Suite I. \$55. Information: www.hrtraining.ucr.edu.

For the most up-to-date information on these and other events view the UCR Calendar at www.events.ucr.edu.