

PRESIDENT'S REPORT

FROM THE DESK OF MARK G. YUDOF

At the Office of the President we celebrate Pride Month with an ice cream social. The summer event, started in 2011, is a great way to honor the many contributions of the LGBT community and to acknowledge UC's commitment to inclusiveness and diversity.

It's also a good time to acknowledge that UC must—and will—step up its efforts to serve this important group of students, faculty and staff. To that end, the newly created UC Task Force and Implementation Team on LGBT Climate and Inclusion will hold its first meeting in August.

I formed this task force on the recommendation of the President's Advisory Council on Campus Climate. The task force is charged with creating more welcoming environments systemwide for lesbian, gay, bisexual and transgender members of the university community. The working group recommends to accomplish that goal include:

- providing LGBT cultural competency training for students and staff who have student-related responsibilities;
- creating a systemwide advisory group on LGBT climate;
- and, initiating campus diversity council reviews of academic and student service programs to determine whether there is appropriate inclusion of sexual orientation and gender identity.

Carrying out these recommendations will help UC build on the work the campuses already have done to promote LGBT inclusiveness.

Recently, the Healthcare Equality Index recognized three UC medical centers as leaders for LGBT sensitivity in both staffing and patient care: **UC Davis, UC San Diego** and **UC San Francisco**.

UCSF is the only institution in the United States to have received a perfect index score every year since 2007 when the Human Rights Campaign and the Gay and Lesbian Medical Association created the assessment survey.

The index rates medical centers on criteria such as equal visitation rights for same-sex partners and parents, LGBT health education for staff and nondiscrimination employment policies that specifically reference gender identity and sexual orientation.

Additionally, Campus Pride gave several UC campuses a five-star rating for their LGBT-friendly climate:

UC Berkeley, UCLA, UC Riverside, UC Santa Barbara and **UC Santa Cruz**.

The campuses can be proud of these well-deserved honors. At the same time, the university realizes the importance of doing more to ensure a welcoming, safe environment for every member of the UC community.

CO2 SENSORS FOR OAKLAND

UC Berkeley chemists are installing a sensor network to monitor carbon dioxide emissions in Oakland and other East Bay locations.

The Berkeley Atmospheric CO2 Observing Network (BEACON) will include 40 sensors installed over a 27-square-mile grid to give a more complete picture of air pollution than currently available. The shoebox-size sensors will continuously measure carbon dioxide, carbon monoxide, nitrogen dioxide, ozone levels, temperature, pressure and

humidity, streaming the information live online.

Many of the sensors will be placed on the roofs of schools. UC Berkeley researchers are working with Oakland's Chabot Space & Science Center to develop curriculum using the sensor data to teach middle school and high school students about climate change and greenhouse gases.

The National Science Foundation is funding the pilot project. The sensors are expected to be installed by the end of summer, in time for the new school year.

UC DAVIS TO RUN STATE CANCER REGISTRY

The **UC Davis Health System** is partnering with the California Department of Health to run the California Cancer Registry. The registry's database contains information from more than 4 million cancer cases diagnosed since 1988. This includes patient characteristics, type of cancer and treatment outcomes. The registry provides researchers and care providers information about cancer risks and geographic clusters of the disease.

UC RESEARCHERS WIN INVENTION 'OSCARS'

R&D Magazine named inventions from **UC Santa Cruz** and the **Berkeley, Livermore and Los Alamos national laboratories** to its 2012 list of 100 most significant technological advances.

The R&D 100 Awards, known as the "Oscars of Invention," recognize game-changing innovations. The nine inventions connected to UC that made the list include a device from the **Berkeley Lab** that can perform remote chemical analysis on other planets. The Berkeley Lab won four of the 2012 awards.

Livermore Lab won five awards, including one for a new method of producing protective coatings with high-power pulsed lasers to prevent corrosion and wear in extreme environments.

The **Los Alamos Lab** had three technology advances on the list, including a software package that can analyze a human genome's DNA in 30 minutes.

A **UC Santa Cruz** engineer collaborated with researchers from Structured Materials Industries Inc. and Oak Ridge National Laboratory on a low-cost plasma generator.

Since 1962 when the R&D awards began, the UC-managed labs have collectively won 330 awards.

UCI TO LEAD NATIONAL SOCIAL COMPUTING CENTER

UC Irvine will serve as the hub of an Intel-funded research center that will bring social science and humanities researchers together with digital designers and technology scientists.

The \$12.5 million Intel Science & Technology Center for Social Computing is a collaboration of UC Irvine, the Georgia Institute of Technology and Cornell, Indiana and New York universities.

UC MERCED'S 'VALLEY 5' GAIN PATIENT EXPERIENCE

The first five students enrolled in the **UC Merced San Joaquin Valley Program in Medical Education** experienced real-world patient care in the most underserved part of California.

The "Valley 5," as they are known, completed the inaugural year of the program working with primary care physicians in clinics and hospices. The students are all from the Valley, where a ratio of 87 primary care doctors per 100,000 people make it particularly hard hit by the physician shortage. The Valley PRIME program is a collaboration of **UC Merced, UC Davis Medical School** and the **UCSF Fresno Medical Education Program**.

NEWS FROM THE CAMPUSES AND LABS

UC Berkeley physicists helped build and will operate the instruments NASA's new X-ray satellite carries to explore black holes and other cosmic phenomena.

UC Davis graduated its first class from the Betty Irene Moore School of Nursing, awarding 25 master's degrees.

UC Irvine scientists have developed a genetically altered mosquito that cannot transmit malaria with its bite.

UCLA Health System launched the first face transplant program in the western United States, with prolonged military conflict overseas increasing demand for this reconstructive surgery.

UC Merced researchers discovered how bone density affects the immune system, a finding that could impact treatment of osteoporosis and other bone diseases.

UC Riverside engineers are studying a tropical shrimp to see if the properties of its clam-crushing appendage could lead to new military body armor designs.

UC San Diego engineering students developed a cheap, light microscope run by a laptop or iPad to use in developing countries such as Mozambique, where it is being tested this summer.

UCSF researchers estimate that Medicare could save \$6 billion a year and maintain quality care by creating specialized hospital units for acutely ill elderly patients.

UC Santa Barbara archeology students are excavating what may be the original Santa Barbara, the site of a Chumash village near the city's harbor.

UC Santa Cruz researchers attribute the increase in Lyme disease to the dwindling U.S. populations of red foxes, which prey on mammals that carry the disease.

Berkeley Lab is partnering with the city of San Jose to accelerate development and testing of sustainable technologies in Silicon Valley.

Livermore Lab's Sequoia supercomputer was ranked as the world's most powerful computer system.

Los Alamos Lab developed a wireless technology for Chevron that increases oil and gas production using less energy.