



SUCCESSSES

TB vaccine offers prevention potential for world population

Colorado State has developed a vaccine to prevent tuberculosis, one of the world's most deadly diseases. The CSU vaccine is the first in development that has promise to work after exposure to TB. Human trials could occur in two to three years. CSU is one of the world's few screening centers searching for new drugs or vaccines to prevent the disease, including strains resistant to current treatments. <http://newsinfo.colostate.edu/story.asp?id=236205914>

Tornado-detecting radars will save lives

Colorado State recently tested a network of radars in Oklahoma's "tornado alley" to improve early warning systems for tornadoes and severe thunderstorms. CSU faculty and students monitored the radars 24 hours a day, seven days a week from computers in the College of Engineering. The project is a collaborative effort with the National Science Foundation Engineering Research Center for Collaborative Adaptive Sensing of the Atmosphere. An average 800 tornadoes are reported across the United States every year, leading to more than 1,500 injuries and 80 deaths. <http://newsinfo.colostate.edu/story.asp?id=431578747>

PARTNERSHIPS

Alliance with high schools makes college dreams a reality

Colorado State is partnering with 10 Colorado high schools to form the Alliance Program to encourage high school students to attend college. The alliance will develop a pipeline of students from communities around the state who will attend college and achieve degrees, says Robin Brown, CSU's vice president for enrollment and access. The program is part of the University's ongoing commitment to expand access to higher education for qualified students, while also supporting improved retention and graduation rates.

PROGRAMS

University offers state's first bioengineering doctoral program

CSU will offer the state's first doctorate in bioengineering, a program that will train students to develop innovative products to

prevent, diagnose, and treat diseases, and rehabilitate patients. The degree program will be offered this fall in the University's new School of Bioengineering, which is the first of its kind in the state. <http://www.engr.colostate.edu/sbme/>

APPOINTMENTS

New director named for Denver Executive M.B.A. program

Dave Larsen, a Broomfield entrepreneur, has been named the new program director of the Denver Executive M.B.A. program. Larsen, who obtained his M.B.A. through Colorado State, has worked as a small-business owner, developed and managed outpatient counseling programs, and served as president and program director of Family Recovery Centers in Denver. CSU's Denver Executive M.B.A. program, located in the heart of downtown Denver, is designed to help emerging business leaders build on their professional experience and advance their careers.

RESEARCH

Used tires in roadbeds combat expansive soils

Some of Colorado's 40 million stockpiled tires can be used to bolster road bases and mitigate the effects of expansive soils, says CSU's Antonio Carraro, assistant professor of civil and environmental engineering. Carraro is leading an experiment with the city of Loveland to test a mixture of expansive soil and scrap tire rubber on a stretch of road near I-25. Only about 2 percent of scrap tire rubber products are reused in civil engineering applications in the EPA region that includes Colorado, while other regions reuse more than 25 percent, says Carraro. "It's a major solid waste problem." <http://newsinfo.colostate.edu/story.asp?id=63310615>

Researchers evaluate storm-water management

In a first-of-its-kind study, Colorado State engineers are exploring ways for municipalities to protect waterways from pollution due to storm-water runoff – which can contain carry harmful pollutants such as automobile products or chemicals into streams. Municipal storm-water management agencies in Denver, Los Angeles, Seattle, and Philadelphia will participate in the study that aims to find solutions to improve storm-water drainage. Roughly half the streams in the

country remain polluted as a result of storm runoff. <http://newsinfo.colostate.edu/story.asp?id=177443330>

Consumers increasingly prefer buying fresh from farm

More people are buying fresh fruits and vegetables straight from the farm, according to a CSU study. Nearly 30 percent of consumers prefer to buy their produce from farmers' markets and direct from producers, the study found. The USDA reported that between 1994 and 2006, the number of U.S. farmers' markets doubled and the value of U.S. agricultural products directly sold increased 37 percent. Initial results suggest that farm-fresh purchasers are willing to pay 7 percent to 23 percent more for produce that is organic, local, or nutritionally superior. <http://newsinfo.colostate.edu/story.asp?id=92899987>

Engineered tissue reduces use of animals in research

Colorado State is engineering tissue in a laboratory that can replace the use of animals in the initial phases of research. "As a researcher, I want to understand tissue cellular responses and develop a greater capacity to mitigate or prevent damage," says Dr. Tom Eurell, director of the Tissue Engineering Laboratory. "As a veterinarian, I want to minimize or eliminate painful experiments in animals. Tissue engineering allows me to do both." <http://newsinfo.colostate.edu/story.asp?id=764061822>

Circadian rhythms dominate all life functions, researchers find

The function of all genes in mammals is based on circadian – or daily – rhythms, according to new research from CSU. The study refutes the current theory that only 10 percent to 15 percent of all genes are affected by nature's clock. "Anyone who diets, for example, knows you shouldn't eat late, and now we are getting closer to understanding why exactly," says Andrey Ptitsyn, a researcher at CSU's College of Veterinary Medicine and Biomedical Sciences. Circadian rhythms regulate timing for most physiological functions and behaviors such as sleeping, eating, and activity. <http://newsinfo.colostate.edu/story.asp?id=353015112>

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