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CU-Boulder adds to 'green' accolades with new energy institute

Renewable and Sustainable Energy Institute to debut in early fall

A new research institute promises to advance the University of Colorado at Boulder's position as one of the nation's leading green campuses, and further promote Colorado as a national hub for energy development.

The Renewable and Sustainable Energy Institute (RASEI), the next step in the evolution of CU-Boulder's Energy Initiative (EI), will be an interdisciplinary research-and-development effort between CU-Boulder and the National Renewable Energy Laboratory (NREL).

RASEI (pronounced "racy") will be the newest CU-Boulder research institute since the 1970s.

With the creation of RASEI, CU joins several other major private and public universities in advancing solutions aimed at producing energy economically from renewable sources, decreasing reliance on foreign oil, reducing greenhouse gas emissions, and using energy more efficiently. Among other missions, the institute will focus on interdisciplinary energy research, developing leading-edge energy technologies, training the next generation of energy professionals, and participating in a national dialogue on related regulatory and public policy issues.

With this initiative, CU is fostering an invaluable working relationship with an important partner, and opening up opportunities for CU researchers to collaborate with Stanford, MIT, the University of California-Berkeley and other major research institutions focusing on the development of new-energy solutions, said CU-Boulder Interim Provost Stein Sture.

"We will address critical issues currently related to basic and applied research for renewable and sustainable energy," Sture said. "We will also look for effective ways to convert solar, wind, ocean currents-you name it-into electricity and biofuels of some kind."



CU-Boulder Provost Stein Sture



Carl Koval is a professor at CU-Boulder and the interim faculty director of CU's Renewable and Sustainable Energy Initiative.

Sture, CU-Boulder Chancellor Phil DiStefano and chemistry and biochemistry Professor Carl Koval, the director of EI and now RASEI, have been the lead architects of the project. Koval and Sture presented their case for the creation of the institute at the Board of Regents' June 22 meeting at UCCS. The regents approved a resolution by DiStefano, giving the campus the green light to establish RASEI, which is expected to make its formal launch in late summer or early fall of this year.

According to Sture, RASEI will operate as a CU-Boulder research institute, and expand and build upon the work already started by the Colorado Center for Biorefining and Biofuels (C2B2), the Center for Research and Education in Wind (CREW), and other research centers affiliated with the Colorado Renewable Energy Collaboratory. The collaboratory's partners include CU-Boulder, Colorado State University, the Colorado School of Mines and NREL.

Koval, who has led EI for the past three years, will oversee RASEI's development until the institute launches a national search for a permanent director next year. All of the programs EI has developed over the past three years will become part of RASEI, including undergraduate and graduate energy certificate programs, a yearly research symposium, seed and proof-of-concept grant funding, business outreach, public speakers and panel discussions, he said.

"As is the case with other CU-Boulder institutes, RASEI will provide a platform for students and faculty to pursue multidisciplinary energy research projects, and to work closely with scientists at a federal laboratory," Koval said.

A plan to establish an energy research institute at CU-Boulder has been in the making for the past four years. A nine-person faculty committee issued a recommendation to establish the institute after gathering widespread input from CU-Boulder professors, students, staff and administrators, as well as from NREL researchers and administrators.

RASEI will operate much like CU-Boulder's nine other independent research institutes, including the Joint Institute for Laboratory Astrophysics (JILA), which collaborates with the National Institute of Standards and Technology (NIST), and the Cooperative Institute for Research in Environmental Sciences (CIRES), which collaborates with the National Oceanic and Atmospheric Administration (NOAA).

Sture said the institutes play a critical role in educating graduate and postdoctoral students, and attract a substantial portion of the federal research funding garnered by the CU-Boulder campus. University leadership expects all of the research institutes to play a key role in achieving the goals established in the Flagship 2030 Strategic Plan, he said.

CU-Boulder boasts approximately 150 faculty members who are involved in energy-related research, including work in the development of smart grids and smart cities, nanotechnology materials, algae-derived biofuels for vehicles, wind energy, and solar energy conversion such as photovoltaic technology, which converts the sun's rays into electricity.

RASEI will also put a strong focus on student education, and develop partnerships with other large research universities, federal labs, and private-sector companies that can speed new technologies to the marketplace, Sture said.

Some 70 CU-Boulder students are involved in sustainable energy development, but the campus expects that number to rise to 500 over the next four or five years as RASEI researchers gain traction at the national level. Because of CU-Boulder's reputation as a "green university," it already draws students from across the country, Europe and Asia, Sture said.

To strengthen such public-private partnerships, the institute is working closely with the CU-Boulder Leeds School of Business, the CU School of Law, the College of Engineering and Applied Science, the College of Arts & Sciences, and the CU Technology Transfer Office.

ConocoPhillips is building a new research campus near Boulder, and Sture is hopeful that the new institute will spur greater investment overall in new-energy development in Colorado, seen as a national hub for green technology creation.

UC-Berkeley received a \$200 million contribution from British Petroleum and Exxon donated \$200 million to Stanford, and CU hopes to become one of ConocoPhillips' main partners over the next several years in terms of energy research and development, Sture said.

The oil company launched a one-year, national search for a site for a campus devoted to energy research and development before settling on the Louisville area because, in part, of its proximity to CU-Boulder. ConocoPhillips is expected to start occupying the 432-acre Louisville Global Technology and Corporate Learning Center in 2012, according to the company's Web site.

"Universities do research that is tightly connected to education, and that's the important part of this. It's the key to getting students trained in this area," Sture said.

The Golden, Colo.-based NREL collaborates with some 80 U.S. universities, but CU will benefit from its geographical proximity to the nation's leading federal research laboratory dedicated to renewable energy development.

"We are fortunate we have NREL in our own backyard," Sture said.

Board of Regents drafts university mission statement

Message aims to provide more direction for CU as a system

The CU Board of Regents drafted a mission statement and guiding principles for the University of Colorado system retreat last week, taking a step toward filling a longstanding void and helping provide direction for campus strategic plan refinements.

While each campus has a mission and vision statement as of its strategic plans, the system as a whole has lacked The regents have long had the desire to develop a mission statement, but the demands of their regular meetings

not provided the opportunity to have a full discussion of the issue, said board Chairman Steve Bosley (R-Longmont).

"One of the board's primary responsibilities is to set broad strategic direction for the university and allow the campuses to determine within their strategic plans how we will achieve our mission," Bosley said. "The retreat gave the board the opportunity to work with the president and chancellors to articulate that direction."

The regents will discuss and consider adopting the mission statement and guiding principles at a fall meeting. CU President Bruce Benson has asked campus leadership to revise their strategic plans because the poor economy has drastically altered the landscape since they were first developed.

"We have to continue to aspire to be a great university while recognizing the constraints of the economic environment that is the worst any of us has seen," Benson said. "We need to reach, but we also need to be realistic." Benson has asked the chancellors to develop revised plans by the fall.

Resources:

- [Mission Statement](#)
- [University of Colorado Guiding Principles](#)



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Board of Regents approve plan to separately brand, name UC Denver campuses

President's recommendation: 'Leverage strengths of two campuses'

The University of Colorado Board of Regents last week approved President Bruce D. Benson's recommendation to separately brand and name the two campuses that now comprise the University of Colorado Denver.

For external purposes, the campuses will be the University of Colorado Denver and the University of Colorado Anschutz Medical Campus. After discussions with UC Denver Chancellor M. Roy Wilson, Benson stressed to the regents that for the purposes of accreditation, federal financial aid, issues related to grants and contracts, and other internal administrative functions, it will retain the single name University of Colorado Denver.

"We can maintain the administrative benefits of consolidation while doing a much better job of promoting ourselves externally and leveraging the strengths of the two campuses," Benson said.

The board in June asked the president to make a [recommendation](#) for naming and branding the two campuses of the University of Colorado Denver after hearing an update on the branding project. At its retreat last week, the board unanimously approved a resolution that reads:

"Moved by Regent Carrigan and seconded by Regent Bishop that the Board of Regents adopt and endorse the branding and naming strategies as described in the July 14, 2009, documents consistent with the prior board resolution of June 22, 2009, that the University of Colorado Denver keeps its name, but would be branded, named, and promoted as University of Colorado Anschutz Medical Campus and University of Colorado Denver."

The four campuses of the University of Colorado will have separate messages and visual identities, but will share common elements such as typography, core colors and a systemwide message. Each campus will use black and gold with an accent color that is specific to the campus. Landor, the branding firm working with CU on the project, is developing logos for UC Denver and Anschutz.

By early fall, the university expects to complete the project, which began last fall, Benson said.

The president, chancellors, CU Foundation leadership and chief communications officers have been working with Landor to develop a coordinated, cohesive visual identity that will take advantage of the collective strength of the CU system while also recognizing the distinctiveness of the campuses. The project will also result in systemwide messages, as well as those specific to the campuses.

Recommendations are based on research that included more than 12,000 survey responses from faculty, staff, students and alumni, as well as more than 40 interviews with people inside and outside the university.

[University of Colorado Denver Consolidation Review](#)

Despite recession, CU posts solid fundraising results

In time of increasing need, dollars down but donors up

More than 50,000 donors made contributions toward CU people, places, and programs during the fiscal year ending June 30, 2009—more than in any other year in CU's 133-year history.



Gifts for the 2008-09 year totaled \$134.5 million: \$101.3 million given through the CU Foundation, the university's fundraising arm, and \$33.2 million given directly to the university, according to preliminary unaudited numbers provided by university and foundation administrators.

"Our donors provide essential support that helps CU provide outstanding education, research, and services to the citizens and communities of Colorado and beyond," said CU President Bruce D. Benson. "Private support will be increasingly essential in the coming years as we deal with fiscal challenges in other revenue streams, and aim not merely to survive but to excel."

However, while fundraising dollars add value to CU, Benson stressed that donors target gifts toward specific areas of interest, and that support for general operating expenses such as salaries, utilities and technology remains a great need for the university.

The total dollar amount of gifts raised by the CU Foundation was down 18 percent from the record-breaking 2007-08 fiscal year (when CU raised more than \$162.5 million), reflecting the pervasive economic difficulties that accelerated early last fall, and have affected university support everywhere.

Despite the decline, the university's fundraising for fiscal year 2009 was higher than all of the years prior to the record-setting 2007-08 period. CU saw a sharp drop in gifts at the highest (\$10 million+) level, as steep equity-market declines put unprecedented pressure on large-gift sources. While 2008 saw three donors give more than \$10 million each, no such gifts were received in 2009. Excluding such donations, dollars raised for CU in 2008-09 exceed last year's total by more than 14 percent.

Donor activity was up, especially among alumni. This year's total of 25,167 alumni donors represents year-over-year increases for all four CU campuses, and is CU's greatest alumni-donor total by a margin of 9.8 percent.



CU Foundation Chief Investment
Officer Chris Bittman

"We are impressed and humbled by the steadfast support of our friends," said CU Foundation President and CEO Wayne Hutchens. "With many traditional CU funding sources likely to be squeezed for years to come, next year will be pivotal for attracting more private support, and demonstrating how this support leads to positive change."

The CU Foundation aims to increase fundraising next year to reduce the revenue gap and keep tuition affordable. Priority projects for which private support will be targeted include scholarships, fellowships, and faculty chairs on all CU campuses.

Other projects the foundation plans to focus on include a Systems Biotechnology Building, an interdisciplinary Energy Initiative, and a Center for Community at CU-Boulder; a rural health Initiative at the Anschutz Medical Campus; buildings for the Business School and College of Architecture and Planning at the University of Colorado Denver Downtown Campus; and completion of a new events center, Institute for Bioenergetics, and Center for Aging at UCCS.

The university endowment, managed by the CU Foundation, saw silver linings despite a challenging year. As of June 30, 2009, the value of the CU endowment was \$590.1 million, down 18 percent from 2008. By comparison, the S&P 500 declined 26.2 percent during the same period. The foundation's investment-management performance **(-17.7 percent for the year)** surpassed the broad equity markets as well as foundation-specific benchmarks for the fifth consecutive year. A \$100 investment in CU's endowment on Sept. 30, 2004, would be worth \$128 today, compared with \$89 if invested in the S&P 500.

Related stories:

- [CU Foundation Implements Portfolio Management Changes](#)

Because of donors to CU's campuses:

- Law students will better connect classroom schooling with real-world clients in need thanks to a \$5 million gift by Richard F. and Rick E. Schaden to the University of Colorado at Boulder School of Law.
- New vaccine development will be accelerated thanks to a \$2 million gift by CU alumni Jack and Jeannie Thompson to help fund a new Biotechnology Building at CU-Boulder.
- Scholarships will make college possible for students in need thanks to an anonymous \$5.5 million gift to the University of Colorado at Colorado Springs - UCCS's largest, leading to an 83.4 percent year-over-year rise in gifts to the campus.
- Rural citizens statewide will receive better health care thanks to a \$3 million grant by Kaiser Permanente to UC Denver's Anschutz Medical Campus.
- A new UC Denver Business School building will get a boost thanks to EnCana's \$1 million gift toward the 1475 Lawrence Court building on the Downtown Denver campus.

President Benson takes CU message on the road

Benson meets with higher education supporters, underscores CU contributions

University of Colorado President Bruce D. Benson is meeting with community leaders, legislators, donors, alumni and other higher education supporters around the state this summer as part of his annual outreach tour to strengthen the university's image and reputation.

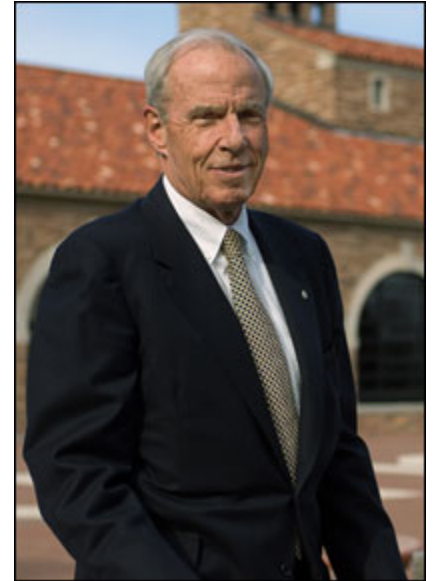
This week, Benson visited Vail and Aspen, and underscored how CU is contributing to Colorado's long-term economic well-being. He also shared his vision for the university's future success, thanked CU donors for years of support, and urged state lawmakers not to forget the value of a college education when it comes to the state's economic stability and personal success for graduates.

"Higher education and academic research together enrich lives, build the state's knowledge-based work force, and fortify the state's economy through innovation, business startups and job creation," Benson said.

"Coloradans must be armed with the skills and knowledge demanded by our global economy, a message I often share with the state's thought leaders," he said. "Now, more than ever, higher education will be an imperative for the state."

Included among the points of pride the president is sharing during his [community visits](#) are details about how CU continues to educate many of the state's teachers, lawyers, doctors and nurses.

Before fall, Benson also is scheduled to visit Craig and Steamboat Springs. Last year, his outreach visits included stops in cities and towns in southern, southeastern, eastern and northern Colorado.



University of Colorado President Bruce D. Benson

5 Questions for...

Jeannie Thompson



Jeannie Thompson (A&S '64, CU-Boulder) is chair of the University of Colorado Foundation's board of directors. The foundation, the university's development and investment-management arm, has 180 employees, boasts more than \$100 million in annual fundraising, and manages CU's endowment of nearly \$600 million. Last October, Thompson and her husband, Jack, contributed a \$2 million gift to the Colorado Initiative in Molecular Biotechnology, citing the value of giving back to the community. Below, Thompson talks about her role as a volunteer and donor, and the foundation's direction as it navigates our current economic downturn.

Why did you choose to pursue leadership roles with CU and the CU Foundation?

I've always been an active volunteer, always been interested in avocational activities. Working with CU is the logical extension of my career life and what I've experienced, and I feel tremendous devotion to the institution.

What are the most important aspects of your job as board chair?

I provide leadership related to board policy-setting and fiduciary responsibilities, and I hope to lead by example from a fundraising perspective. I can also give a viewpoint from the volunteer side that staff can't necessarily convey and be a sounding board for the CEO and president. Active with all committees of the board, I collaborate with them as we determine the policies that guide many of the operations of the foundation. The foundation can toot its own horn, but from my position, I'm able to stand back a bit and see from a volunteer and donor's perspective that there's greatness here. Â

What are the foundation's top priorities for the next few years?

We need to continue to build our base of donors, come up with strong new prospects, and find new people who can be approached for potential support for the university. Another key priority is to maintain and grow the level of

confidence that donors and the general public have shown in the university and the foundation these past several years.

How is the foundation weathering the economic downturn?

At one point this year we were saying, "We'll be happy if we make it to \$85 million," and we surpassed \$100 million. Given what's happened this past year, I think we're doing better than anticipated. And our endowment maintenance has been strong-protecting on the market downside, and taking advantage of upside opportunities.

We learned that you support several CU programs as a donor.

We supported the new Systems Biotechnology Building at CU-Boulder because of my laboratory background. My husband Jack (also a 1964 CU-Boulder alumnus) is an American historian, so we support the Center of the American West and the history department. Music is something we love; we sponsor the jazz program at the College of Music. We have a real personal affinity for all of these programs.

You are a CU alumna. What has changed most about CU?

I think the university is a much finer institution, providing a better education-certainly the undergraduate offerings in a variety of areas are much greater. When we were here, it was a good school, a wonderful place to be. But now, it is truly first rate.

Stimulus funding update

Summary of research grant applications by campus

- CU-Boulder has applied for more than 201 grants totaling \$132.2 million, and has received 28 awards for a total of \$11.6 million.
- UCCS has applied for 11 grants totaling \$6.4 million, and has received two awards for a total of \$600,000.
- UC Denver has applied for 562 grants totaling \$239 million, and has received 34 awards, with additional funding from an agency general appropriation totaling approximately \$13.1 million.
- The total number of CU research grant applications is approximately 774, totaling \$377.6 million. CU has received 64 awards as of July 20, 2009, totaling approximately \$25.2 million.

CU System ARRA Research Grant Awards

Awarding Agency	CU-BOULDER		UCCS		UCD		System Total	
	Amount	Number of Awards	Amount	Number of Awards	Amount	Number of Awards	Amount	Number of Awards
NIH	\$ 1,824,484	6			\$ 13,044,769	33	\$ 14,869,253	39
NSF	\$ 9,731,543	22	\$ 575,201	2	\$ 55,947	1	\$ 10,362,691	25
Grand Total	\$ 11,556,027	28	\$ 575,201	2	\$ 13,100,716	34	\$ 25,231,944	64

News briefs

CU employees aren't required to take furlough days

University of Colorado employees will not be required to take furlough days due to the current economic downturn, unless they volunteer to take them, and their campus leadership approves such leave, according to university officials.

So far, the only CU campus that has approved voluntary furlough days for employees is the UC Denver campus. According to regent laws and policies, campus chancellors have the authority to approve voluntary furlough days. This past spring, UC Denver Chancellor M. Roy Wilson did just that. The president would have to approve such leave for system administration.

On Wednesday, Gov. Bill Ritter issued an [executive order](#), requiring most state employees to take four furlough days beginning in September.

According to E. Jill Pollock, chief human resources officer and senior associate vice president for the CU system, the state's plan to implement mandatory furlough days for most state employees will not affect higher education.

Kelly Fox, system administration's vice president and chief financial officer, said there are currently no plans to implement mandatory furlough days for CU employees.

Latino, Native American science scholars to convene at UC Denver

A collation of groups representing Latino and Native American science scholars across the Rocky Mountain region will convene on the Auraria Campus next month.

Several chapters of the Society for the Advancement of Hispanic/Chicano and Native American scientists, or [SACNAS](#), will meet in Denver on Aug. 27-28.

Organizers said the society is dedicated to fostering the success of Latino and Native American scientists—from college students to professionals—and to support their efforts as they attain advanced degrees, enter their fields of study, and assume positions of leadership.

The conference's purpose is to "unite underrepresented students from the Rocky Mountain region in order to develop leadership skills, establish supportive networks, and strengthen ties to the resources that will help members succeed," said spokeswoman Dianna Collingwood.

Represented at the regional meeting will be SACNAS chapters from the University of Colorado Denver, Colorado State University, the Community College of Denver, Metropolitan State College of Denver, Otero Junior College, and student members of the University of Northern Colorado.

The [event](#) is open to undergraduate and graduate students, faculty members, and high school teachers and mentors, and will include scientific workshops, poster presentations and networking opportunities. Five keynote speakers will discuss topics relevant to cutting-edge scientific discovery and research.

Colorado Shakespeare Festival runs through summer

University of Colorado faculty and staff members still have time to catch one of several performances at the 2009 [Colorado Shakespeare Festival](#), event organizers said.

The festival has long been considered one of the best of its kind in the nation, and has featured performances by thespians who later found success in Hollywood, including actor Val Kilmer.

This year's productions include "Hamlet," "Much Ado About Nothing," "The Two Gentlemen of Verona," "The Complete Works of William Shakespeare, Abridged," and "To Kill a Mockingbird."

The festival is staging the plays at the Mary Rippon Outdoor Theatre and at the University Theatre Mainstage, an indoor venue on the CU-Boulder campus.

CU-Boulder Career Services seeks clothing donations

The University of Colorado at Boulder [Career Services](#) office is launching its sixth annual drive to collect gently worn career attire for students and alumni who are looking for jobs.

Career Services is partnering with the Engineering [BOLD Center](#) (formerly the Multicultural Engineering Program, or MEP) and the Multicultural Business Students Association (MBSA) to collect gently worn business attire from the community during the summer months.

The partners plan to sell the clothes to students and alumni at a low cost at the annual "Suit Yourself" clothing sale in the fall.

[Lisa Lovett](#), internship program coordinator for Career Services, said the goal is to ensure that CU students and alumni are well dressed for career fairs and job interviews. For example, the group plans to sell full suits for \$20, she said.

Proceeds from the sale will benefit the BOLD Center and MBSA.

"Over the past four years we've raised more than \$6,000 each year, and the money has helped students with scholarships over the years," she said. "As you know, in this tough economic climate, the extra expense of purchasing a new interviewing suit is especially daunting for some students and alumni. Our goal is to help them purchase a quality suit that gives them confidence and also doesn't break the bank."

Career Services and its campus partners will receive clothing donations between now and Sept. 21, including men's and women's suits, jackets, pants, shirts, skirts, ties and handbags. Donors can drop off clothing and other items at the Career Services office and at all Art Cleaners stores in Boulder.

People



Thomas G. Andrews

University of Colorado Denver faculty members **Thomas G. Andrews** and **Jake Adam York** each recently received a Colorado Book Award. The Colorado Center for the Book presents the prestigious award annually to Colorado authors, editors, illustrators and photographers in 12 categories. The honor is paired with an event that provides readers and writers a chance to meet in person. Altogether, the center honored 14 Coloradans in Aspen late last month.

Andrews, who is an assistant professor of history, won the award for his book "Killing for Coal: America's Deadliest Labor War." The book is based on the 1914 mining strike and Ludlow massacre. The historical book has earned Andrews

other national accolades, including a 2009 Bancroft Prize.

York, an associate professor of English, won the poetry category with "A Murmuration of Starlings." The book is a collection of elegy poems and memorializes the black men and women who were killed during the civil rights movement of the 1950s and 1960s.



Jake Adam York



Gardiner "Tuck" Tucker with Chip

Gardiner "Tuck" Tucker has been appointed assistant dean of students for student success and retention at the University of Colorado at Boulder. Tucker has an extensive background in higher education, having spent 25 years of his career building experience at CU-Boulder and the University of Northern Colorado. Prior to his appointment as dean of students, Tucker served as the interim assistant dean of students and the director of residence life at CU-Boulder. He received his doctorate in college student personnel administration from the University of Maryland, and earned a master's degree in counseling and human development from St. Lawrence University.



UC Denver Professor
Richard Sanders

UC Denver Professor **Richard Sanders** and the College of Arts & Media received a third federal earmark grant for \$500,000. The money will fund the National Center for Media Forensics (NCMF), established in 2007 to teach future experts in the field of media forensics, particularly the study of "audio and video fingerprinting." Although still young, the center aims to establish cross-disciplinary, inter-institutional collaborations for research between the Downtown Campus and the Anschutz Medical Campus. **Jeff Smith**, associate director of the NCMF, has worked with Sanders since 2005. Smith said he would like to implement programs now that the center has settled into its new location, which features state-of-the-art equipment and tools used by media forensic investigations. In all, the total support in earmarked funding for the NCMF totals nearly \$1.2 million.

Did you know?

Learning is a lifelong process that can affect and improve your professional and personal endeavors. Learning provides the skills that can help you succeed in your career and your relationships. Investing in yourself provides huge advantages. The University of Colorado has invested in their employees by offering a wide array of standard online courses through SkillPort. You can maximize your abilities and knowledge about:

- IT and Desktop Skills
- Interpersonal Communication
- Time and Stress Management
- Work/Life Balance

Your skills are what help you deal with the everyday challenges of life. You owe it to yourself and those around you to take some time to be your best. You can access SkillPort through the My.Training tab on the [myCU Portal](https://my.cu.edu) (my.cu.edu).

News from the Campuses - CU-Boulder

Study: Drier Colorado River system in store for West

Colorado and other states across the West could see reservoirs dry up by 2057 if current water-management practices in the Colorado River system remain in place as the region continues to warm up, according to University of Colorado at Boulder researchers.

In a new study published in the American Geophysical Union journal, CU-Boulder researchers noted that roughly 30 million people depend on the Colorado River for drinking and irrigation water.



The Colorado River's famous Horseshoe Bend in Arizona. [Photo courtesy of GoldenSpiral.org]



Associate Professor of Civil, Environmental and Architectural Engineering at CU-Boulder Balaji Rajagopalan

The river features more than a dozen dams along its 1,450 journey from Colorado's Rocky Mountains to the Gulf of California. The river system has endured 10 years of drought, said lead study author Balaji Rajagopalan, an associate professor of civil, environmental and architectural engineering.

Rajagopalan, a fellow at CU-Boulder's Cooperative Institute for Research in Environmental Sciences, said Colorado River system reservoirs started out at about 95 percent of capacity when the drought began in 2000, but those levels have dropped to 59 percent of capacity this year, about the same as last year.

The research team examined the future vulnerability of the system to water supply variability, coupled with projected changes in water demand.

"On average, drying caused by climate changes would increase the risk of fully depleting reservoir storage by nearly 10 times more than the risk we expect from population pressures alone," Rajagopalan said. "By midcentury, this risk translates into a 50 percent chance in any given year of empty reservoirs, an enormous risk and huge water-management challenge."

Total storage capacity of reservoirs on the Colorado River exceeds 60 million acre feet, almost four times the average annual flow on the river, researchers said.

The system's two largest reservoirs, Lake Mead and Lake Powell, can store up to 50 million acre feet of water. As a result, the risk of full reservoir depletion will remain low through 2026, even with a 20 percent stream flow reduction induced by climate change, Rajagopalan said.

However, between 2026 and 2057, the risks of fully depleting reservoir storage will increase seven-fold under current water-management practices when compared with risks expected from population pressure alone, he said.

News from the Campuses - UCCS

Mexican scholars learn English as a second language skills at UCCS

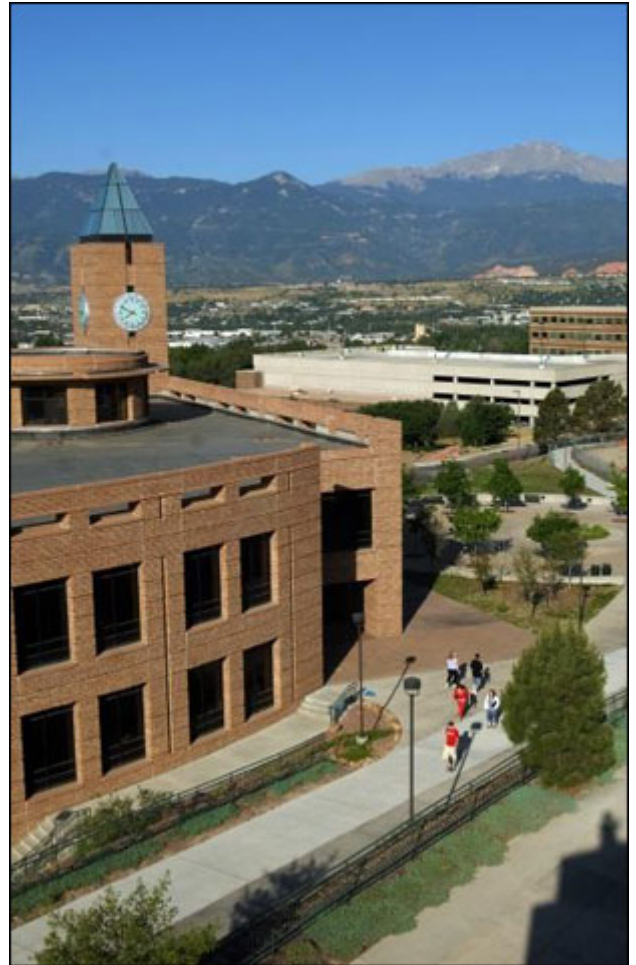
Five faculty members from the Tecnológico de Monterrey in Mexico will visit the University of Colorado at Colorado Springs from July 19 to Aug. 1 to study English as a second language for teachers.

Their visit is part of a UCCS program to help people who speak other languages. The program is in the College of Education's department of curriculum and instruction. The college offers a 12-credit English as a second language, or ESL, certificate.

The Tec de Monterrey is one of the most prestigious and innovative providers of private education in Latin America, boasting a presence in 31 Mexican states and 13 offices worldwide. The university serves more than 92,000 students and 8,000 faculty members.

The UCCS College of Education is accredited by the National Council of Accreditation of Teacher Education, and received the highest accreditation possible last year. Each semester, the college enrolls more than 400 undergraduate and graduate students in areas of study such as special education, counseling, curriculum and instruction, and leadership.

The college also provides professional development for hundreds of practicing educators throughout the region.



The University of Colorado at Colorado Springs. [Photo by: Glenn Asakawa]

News from the Campuses - UC Denver

Can migraine headaches reduce academic performance?

A new study by University of Colorado Denver researchers suggests that youths who suffer from migraines at an early age can take home lower high school grades later on.



UC Denver Professor Daniel Rees

American University Professor
Joseph Sabia

The study by researchers Daniel Rees, a UC Denver economics professor, and Joseph Sabia, a professor of public policy at American University's School of Public Affairs, also concludes that such headaches can decrease the likelihood of high school graduation and college enrollment.

Rees and Sabia presented their findings on July 1 at the 84th annual Conference of the Western Economic Association International in Vancouver, British Columbia.

As with their study on breastfeeding and academic achievement, the scholars analyzed data on sibling pairs from the National Longitudinal Study of Adolescent Health. The data they analyzed was based on parental reports that identified siblings raised in the same household with different migraine experiences.

The authors discovered that suffering from migraine headaches was associated with a 5 percent reduction in high school GPA, a 5 percent reduction in the likelihood of graduating from high school, and a 15 percent reduction in the likelihood of attending college. Non-migraine headaches were not associated with reductions in academic performance.

"By focusing on differences between siblings, we can rule out the possibility that family-level factors such as socioeconomic status are driving the relationship between migraine headache and academic performance," Rees said.

The researchers analyzed data gathered from 214 siblings from 105 families.

News from the Campuses - Anschutz Medical Center

AMC breast cancer researcher receives gift from Avon

A breast cancer researcher at the University of Colorado Cancer Center, located on the Anschutz Medical Campus in Aurora, has received \$650,000 from the Avon Foundation for Women in support of various breast cancer outreach and research programs.



UC Denver Distinguished Professor of
Endocrinology, Metabolism and Diabetes
Kathryn Horwitz, PhD.

Kate Horwitz, PhD, a distinguished professor of endocrinology, metabolism and diabetes at the School of Medicine, received the gift at the end of the 2009 Avon Walk for Breast Cancer Rocky Mountains. More than 1,400 walkers raised \$2.6 million for statewide breast cancer programs during the June 27 event.

The gift brings Avon's total giving to the Cancer Center and the CU Foundation to more than \$7 million since 2001.

"Avon's gifts have been invaluable in support of our outreach programs to medically underserved women in the Denver metro area, and our basic and clinical research programs," Horwitz said.

University of Colorado Hospital ranks among the nation's best in 2009

The University of Colorado Hospital is among the best nationally in six of 16 medical specialties, according to *U.S. News & World Report's* 2009-10 publication, *America's Best Hospitals*.



The University of Colorado Hospital Anschutz Patient Pavilion. [Photo by: Casey Cass]

UCH is recognized in more categories than any other hospital in Colorado and the Rocky Mountain region. It ranked as one of the best in diabetes and endocrine disorders, gynecology, kidney disorders, respiratory disorders, rehabilitation and rheumatology.

Other ranked specialties include cancer, digestive disorders, ear, nose and throat, geriatric care, heart and heart surgery, neurology and neurosurgery, ophthalmology, orthopedics, psychiatry and urology.

"This is another indicator of the clinical excellence our hospital brings to patients here," said Bruce Schroffel, the hospital's president and CEO.

The rankings in 12 of the 16 specialties—all but ophthalmology, psychiatry, rehabilitation, and rheumatology—are

predominantly driven by hard data covering four components: reputation, death rate, patient safety, and care-related factors such as nursing and patient services.



Bruce Schroffel, president and CEO of the University of Colorado Hospital.

Kaiser Permanente grant to place UC Denver students in rural communities

More medical, dental and pharmacy graduates from the University of Colorado Denver will soon be able to share their skills with Colorado's rural communities thanks to a \$2.4 million grant from Kaiser Permanente.

The gift will establish the UC Denver Interdisciplinary Rural Training and Service Program, or IRTS. The program aims to train health care professionals willing to practice in underserved rural communities across the state.



Mark Deutchman

Mark Deutchman, MD, a professor of family medicine at UC Denver, will lead the IRTS, and the Colorado Area Health Education Center, or AHEC, will serve as the administrator and evaluator of the program.

According to state medical experts, a serious shortage of doctors, nurses, pharmacists and dentists practicing in many rural communities can cause people to forgo preventive care or treatment for serious illnesses.

"Colorado is largely a rural state and many of our rural counties are facing significant shortages in health care professionals living and working in their communities," said Ned Calonge, chief medical officer of the Colorado Department of Public Health and Environment.

"This innovative partnership will help address these shortages by supporting the recruitment and retention of new health profession graduates in currently underserved communities," he said.

UC Denver, the CU Foundation, Kaiser Permanente, and the state of Colorado announced the gift earlier this month.

Administrators said IRTS would build upon successful but independent programs in the School of Medicine, the School of Dental Medicine and the School of Pharmacy.

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1800 Grant St., Suite 800
Denver, CO 80203

E-mail: newsletter@cu.edu
Web Site: www.cu.edu/newsletter

General Phone: 303-860-5627