Professor Perry Dickinson[1]

[2]
Professor **Perry Dickinson**, MD, a faculty member at the University of Colorado Denver's department of family medicine, is president-elect of the Society of Teachers of Family Medicine board of directors.

Dickinson, who has been a society member for 26 years, served on many committees in the organization before he was elected. His research focuses primarily on practice improvement.

Founded in 1967, the society advances family medicine and works to improve health through a community of family medicine educators and scholars. It boasts a membership base of nearly 5,000, including medical school professors, residency program faculty, preceptors and residency program directors.

## CU Foundation wins national fundraising award[3]

Wayne Hutchens, president and CEO of the University of Colorado Foundation

The University of Colorado Foundation has won a national award for improving fundraising programs that benefit the university.

CASE[5], the Council for Advancement and Support of Education, notified the foundation on June 1 that it had won the 2009 CASE Wealth Engine Award for Educational Fundraising.

Wayne Hutchens, president and CEO of the University of Colorado Foundation[6], called the award a great honor, especially from a highly respected resource for education development.

"We're thrilled that CASE has recognized the great progress we've made on behalf of CU's exemplary people, places, and programs," Hutchens said.

The council said the Wealth Engine award honors "superior fundraising programs" across the United States, and is part of its Circle of Excellence, which recognizes programs and activities that advance university communications, alumni relations and fundraising efforts, and set an example for the rest of academia.

"Your institution has not only demonstrated the highest levels of professionalism and best practice in its fundraising efforts, it has contributed to the betterment of educational advancement worldwide," wrote CASE President John Lippincott in an award letter.

Citing overall performance and improvement in fundraising, CASE officials said the CU Foundation was among an "exceptional group of colleges, universities and independent schools" named to its Circle of Excellence.

## Center of the American West compiles online report about oil shale[7]

Patty Limerick is the Faculty Director and Chair of the Board of the Center of the American West at CU-Boulder.

The University of Colorado at Boulder's Center of the American West has developed an online report that offers Web

site visitors an impartial perspective on the oil shale production debate.

"What Every Westerner Should Know About Oil Shale" comes as Colorado prepares for what looks like another oil shale development cycle.

CU history Professor Patty Limerick, who is the center's[9] faculty director and board chair, co-authored the report[10] with center researcher Jason Hanson. Two years in the making, the project details the first two oil shale booms on the western slope of the Rocky Mountains.

Oil shale is a term used to describe a variety of sedimentary rocks that will ignite when exposed to enough heat.

The report's intent is "to provide a safe port in the storm of data disputes that usually rage on topics like this. We want to encourage a more responsible, more informed and more productive decision-making process," Hanson said.

In the report, the center takes no position either for or against oil shale production[12]. Hanson noted that the project grew out of a Chevron-funded workshop, and that people involved in its preparation on all sides of the debate have praised its nonpartisan approach.

The world's largest supplies of oil shale, a layer of sedimentary rock that companies compress and refine into petroleum, lie trapped beneath the western slope of the Rockies in parts of Colorado, Utah and Wyoming. Colorado's last oil shale boom-and-bust cycle occurred in the early 1980s.

Colorado's Rio Blanco County is home to Shell's Mahogany Research Project, an oil shale lease in the Piceance Basin.

## New Science and Engineering Building gets thin-film solar panels[14]

The UCCS Science and Engineering Building will use thin-film solar panels for energy.

The University of Colorado at Colorado Springs is using thin-film solar panels to provide energy to one of its largest and newest buildings.
UCCS has installed the cutting-edge solar panels on the roof of its new 155,000-square-foot Science and Engineering Building at a cost of $107,000. Thin-film solar panels are a lighter and less costly alternative to the bulky silicon solar panels that have dominated the market for years. Last year, Time magazine included the panels in its list of the top inventions of the year.

The campus is funding the project through a $25,000 grant from the Governor's Energy Office, a $39,000 rebate from Colorado Springs Utilities, and student-approved student fees.

On Aug. 6, the campus will hold an opening ceremony for the Science and Engineering Building, now the most energy efficient structure at UCCS. Campus officials said the building would be the first in the state to feature the 13.6 kilowatt-hour solar panels. Electric utilities define the energy they deliver to customers in terms of kilowatt hours (kWh) used. The building will house science labs and classrooms for engineering, biology, chemistry and other student majors.

Last year, the campus installed solar thermal panels on its new LEED gold-certified UCCS Recreation Center, and significantly reduced heating costs, campus officials said.

The Leadership in Energy and Environmental Design (LEED) rating program is the U.S. Green Building Council's standard for green construction. The highest rating a building can obtain for its use of green technology and

construction materials is gold. The CU system currently boasts several LEED gold- and silver-certified buildings on its three campuses.
In the Science and Engineering Building's lobby, the campus community will be able to view a display of how much energy the panels are producing, as well as water and energy savings. Campus officials hope to obtain LEED certification for the new building as well.

## Study: Breastfed babies do well in high school, go on to college[16]

UC Denver Professor Daniel Rees

A new study by a University of Colorado Denver researcher concludes that breastfeeding can give children an academic edge when they reach high school, and increases their odds of attending college.

The study, co-authored by UC Denver economics Professor Daniel Rees and American University public policy Professor Joseph Sabia, appeared in the June 11 edition of the Journal of Human Capital[18].

Rees and Sabia looked at the academic achievement of siblings, one who had been breastfed as an infant and the other who had not, and discovered that breastfeeding was associated with an increase in high school GPA of 0.019 points and an increase in the probability of college attendance of 0.014.

American University Professor Joseph Sabia

"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 having been breastfed and educational attainment," Rees said.

The researchers examined the breastfeeding histories and high school grades of 126 siblings from 59 families, using data from the National Longitudinal Study of Adolescent Health. They also obtained information on high school completion and college attendance from 191 siblings from 90 families.

"The results of our study suggest that the cognitive and health benefits of breastfeeding may lead to important long-run educational benefits for children," said Sabia, whose research focuses on health economics. "But this is just a start. Much work remains to be done to establish a definitive causal link."

## Five questions for Richard D. Krugman[20]

[21]

**Richard D. Krugman**, MD, vice chancellor for health affairs and dean of the School of Medicine at the University of Colorado Denver, is a pediatrics professor and a board-certified pediatrician. Krugman[22] is also one of the nation's foremost advocates for the prevention of child abuse and neglect through public awareness and education. A Princeton University graduate, he earned a medical degree at New York University School of Medicine before completing an

internship and residency at the medical school he now leads. As the university's first vice chancellor for health affairs, Krugman oversees the Center of Bioethics and Humanities and the Colorado Area Health Education system among other programs. Here, he answers five questions to clue us in on his work, his vision for the Rocky Mountain region's top medical school, and a music career thwarted by a passion for science and writing.

**You are dean of the University of Colorado School of Medicine and the university's first vice chancellor for the Office of Health Affairs. What role do you play as vice chancellor and what attracted you to the position?**

The truth is I was not attracted to the role - rather, I was made the vice chancellor for health affairs a year after Chancellor Roy Wilson arrived and organized his office to grapple with the complexity of managing the newly consolidated university. I had been dean of the medical school for 17 years prior to that time and was very happy in that job. As vice chancellor for health affairs, my responsibilities are to oversee and manage the clinical relationships among the health professions schools and our affiliated hospitals. There are also a number of programs that serve all the health science schools that are located in the VCHA Office: the Colorado Area Health Education Center Program; the Center on Aging; the Program in Ethics and Humanities; and the Interprofessional Program in Education. A major part of the job is to work with the vice chancellor for research to assure the continued growth and development of all the clinical and research programs on the Anschutz Medical Campus. Finally, with the consolidation of most of the support functions of central administration to the UC Denver Downtown Campus, an important part of the job is to be the ears and voice of the Anschutz Medical Campus so that policies which seem logical or reasonable in the downtown environment are not perpetrated on the Anschutz Medical Campus without a clear understanding of their impact.

**Medical schools across the country are grappling with many of the same issues, including a push to recruit more students and faculty of color, train more doctors for rural service, and find ways to fund major initiatives in a tough economic climate. How do you approach these challenges as you strive to preserve the School of Medicine's reputation?**

We have had the most success in addressing the state's needs for primary care physicians, especially those who wind up in rural areas. When I began the dean's job in 1990, the legislature was furious with the school for (in their view) not training enough rural and primary care physicians. We implemented a six-part program in 1993 that we have continued for the most part for more than 15 years. It includes a summer camp for rural high school students with our first- and second-year students as counselors; admission preference to rural applicants who have equal qualifications with urban applicants; a longitudinal course throughout the first three years of medical school in which our students spend a half day a week in a primary care physician's office; support for the nine family medicine residencies in the state; and support of continuing medical education through the Area Health Education Centers for those of our graduates practicing in rural areas. We have been less successful - in fact we have been poor - at recruiting underrepresented minority faculty and students. Part of this is related to the absolutely abysmal base funding we get from the state through the university. We are 80th among 80 public schools of medicine in state support. Without more base funding and without adequate endowment or other sources of scholarship funding, we cannot compete with other schools that recruit and support many Colorado medical school applicants.

**You are a professor of pediatrics. What is the greatest health issue faced by children around the world today?**

Children face enormous health issues all over the world, but I am not sure I can list one "greatest." Children growing up in developing countries have a very different set of challenges (malnutrition and infectious diseases being the most prevalent) than children living in the United States, Europe or in industrialized countries. In the industrialized world, malnutrition among poor children coexists with obesity as a major child health problem. Addiction to tobacco and substance abuse is a major child health issue. So is the environment in which children are raised.Â  Millions of children live in conflict zones - in cities or countries where there is armed conflict and civil war or in homes where domestic violence, child abuse and/or neglect may be present.

**You have spent most of your career educating people about the far-reaching consequences of child abuse and child neglect on children, families, schools and societies. Has Colorado made any progress in this area, and what more can our state do to stop child abuse and neglect?**

Colorado and the nation have made a lot of progress addressing the problem of child abuse and neglect. We have the

technology to be able to prevent most physical abuse of children, but have not yet applied that knowledge to nationwide programs that can do so. Interestingly, the number of cases of physical and sexual abuse of children has declined by about 40 percent over the last decade (and no one knows why). My own belief is that we need to begin to think of abuse and neglect as a mental health and public health problem rather than as a social and legal problem. If we do, we might actually be able to figure out if genetic dispositions, brain chemistry changes and environmental triggers can cause the problem, and make even further progress in reducing the numbers of cases.

**Finally, please tell us something about yourself that few people know about.**

My mother had me tracked to become (in her words) "the next Arturo Toscanini." She and I would read music books (the score of piano concertos while playing the recordings on our Victrola). I rode the bus and subway to Juilliard School of Music while living in New York City for seven years between 1950 and 1957. But after I left home for a boarding school in September 1957, my musical career ended and writing and science took over.

June 22 Board of Regents meeting[23]

Regents approve $2.6 billion operating budget**[24]**
The University of Colorado Board of Regents on Monday approved a $2.6 billion operating budget for fiscal year 2009-10, a 5.7 percent increase over the current fiscal year, which ends June 30.

Regents satisfied with consolidation assessment, halt study**[25]**
The University of Colorado Board of Regents on Monday unanimously passed a resolution that reaffirmed the consolidation of the University of Colorado Denver's Downtown Campus and Anschutz Medical Campus, halting a comprehensive assessment that was scheduled to proceed through the fall.
University of Colorado Denver Consolidation Review[26]
Regents approve capital construction plan**[27]**
The University of Colorado Board of Regents approved the revised five-year capital construction plan for building projects across CU's campuses, even though there is no state money to fund the buildings.

**In other business, the Board of Regents...**
Re-elected Steve Bosley (R-Longmont) as chair and Tillie Bishop (R-Grand Junction) as vice chair. Appointed Mary Rinehart to the University of Colorado Hospital Authority Board of Directors. Approved resolutions recognizing outgoing University of Colorado Staff Council Chair Jennifer Lahlou and outgoing Intercampus Student Forum chair Sruthi Pandipati. Approved the creation of the Renewable and Sustainable Energy Institute at CU-Boulder. Approved the second amendment to the program plan for the Systems Biotechnology Building. Approved the doctoral degree in Applied Science at UCCS. Approved revisions to the funding for the Faculty Housing Assistance Program. Approved implementing new federal regulation related to identity theft protection. Approved providing resident tuition for honorably discharged veterans (House Bill 09-1039). Approved an amendment to the Laws of the Regents, Article 4 - Organization of Academic Units, and Revisions to Policy 4.H: Program Discontinuance.

Arthur J. Nozik[28]

[29]
**Arthur J. Nozik**, a senior research fellow at the National Renewable Energy Laboratory and an adjoint chemistry professor at the University of Colorado at Boulder, won an international award that recognizes innovation in solar energy research.

Nozik won the 2009 Intergovernmental Renewable Energy Organization Award for Science and Technology. The international organization works with United Nations members to develop sources of renewable energy.

At one of the organization's recent conferences, he gave a keynote speech in which he lauded the formation of the group as an "important international step" toward meeting global energy demands through low-cost, carbon-free or carbon-neutral energy, and intergovernmental coordination on new energy policies.

Nozik and his team at NREL hope to develop technology that can directly convert the sun's energy into electricity and fuels at a cost equivalent to or lower than the cost of coal. As an adjoint professor, he has a professional affiliation with the chemistry department that allows him to teach courses and supervise academic programs.

UCCS, nine other southern Colorado colleges to advance education[30]

UCCS Chancellor Pamela Shockley-Zalaba

The University of Colorado at Colorado Springs is joining forces with nine other southern Colorado colleges to strengthen and expand the region's economy, improve overall quality of life, and shape the lives of citizens through education.

On June 2, UCCS Chancellor Pamela Shockley-Zalabak signed an agreement to create the Southern Colorado Education Collaboratory.

Other signatories included the leaders of Adams State College, Colorado State University-Pueblo, Fort Lewis College, Lamar Community College, Otero Junior College, Pikes Peak Community College, Pueblo Community College, Trinidad State Junior College, and Western State College.

"We recognize that southern Colorado faces great challenges in employment, education, income levels and overall quality of life," Shockley-Zalabak said. "We intend to work together to achieve a common purpose of building the future of this region."

According to a news release issued by the group, collaborators will strive to build a regional culture that encourages residents to pursue undergraduate and graduate degrees; enhance cooperation between two- and four-year schools to increase student transfer opportunities; establish a collective voice for higher education in the region; and improve K-12 partnerships, teacher training, work force training, research opportunities and financial support for higher education.

James Terrence McCabe[31]

[32]
**James Terrence McCabe**, professor of anthropology at the University of Colorado at Boulder, received a Humboldt Research Award.

The award recognizes lifetime achievements in research and includes an invitation for winners to spend a period of up to one year cooperating on a long-term research project with specialist colleagues at a research institution in Germany.

Professor McCabe's research focuses on land-use strategies and decisions among pastoral people in eastern Africa. During the 2009-10 winter semester he will work to further his research with international specialists at the Cologne African Studies Center, part of the University of Cologne in Germany.

System policy office prepares biannual rollout of APS changes[33]

The University of Colorado will revise 12 administrative policies, eliminate 19 and implement two new ones on July 1 as part of ongoing efforts to streamline and reduce paperwork.

The changes will take effect in fiscal year 2009-10 and are the result of a comprehensive analysis by the Office of Policy and Efficiency (OPE), campus and system subject matter experts, and the President's Task Force on Efficiency, which issued 36 recommendations to CU President Bruce D. Benson in March.

A detailed list of these changes, including draft policies, stakeholders involved, and justifications for the changes, can be found at the OPE Web site[34] under "Policies Under Review."

"This is a big step in responding to the concerns of the campuses and in fulfilling the original charge of the task force and the Office of Policy and Efficiency," said CU President Bruce D. Benson.

The university's two new policies stem from recent state statutory requirements granting in-state tuition status to military veterans who have been honorably discharged and to students whose parents relocated to Colorado to work for companies that will contribute to the state's economic development.

OPE Director Dan Montez, who oversaw the work of the task force along with Vice President for Administration and Chief of Staff Leonard Dinegar, said the July 1 policy changes would result in a net reduction of 17 administrative policy statements (APSs). Â Since last fall, the administration's cleanup of duplicative and cross-listed policies and other streamlining efforts have reduced the number of policy statements on the system Web site from 210 to 106, he said.

Montez credited the administrative offices that develop policy statements, or the "policy owners," for taking on the challenge of improving efficiency by eliminating unnecessary or duplicative policies.

"They've been more aggressive in responding to the campus concerns, 'Do we really need these things,'" he said. Among the Task Force on Efficiency's recommendations to the president was a call to simplify the way system administration communicates policy changes to faculty and staff. The result is that OPE will strive to issue policy updates no more than twice a year beginning in July.

Administrators believe the twice-a-year updates will reduce confusion, improve compliance, and help faculty and staff keep track of new, revised or rescinded policy statements. Under consideration is a plan to announce policy statement changes in September and March to coincide with the academic calendar.

"We're just trying to simplify and make it easy for people to find policies. It's hard to hold people accountable for things they don't know exist," Montez said.

To read more and to comment on efforts to reduce and streamline policy statements, visit https://www.cu.edu/content/provideyourfeedback[35]

Task Force on Efficiency gives president update[36]

The President's Task Force on Efficiency will meet today for the first time since March to receive a status report on the system administration's implementation of its 36 recommendations to the president.

The task force issued its recommendations to CU President Bruce D. Benson in March, as required by the president's

call to action last November. Benson charged the group with finding ways to streamline or eliminate unnecessary policies, processes and paperwork in system administration.

Dan Montez, Director, Office of Policy and Efficiency

Office of Policy and Efficiency Director Dan Montez, who oversaw the work of the task force along with Vice President for Administration and Chief of Staff Leonard Dinegar, said system administration has implemented or partially implemented 13 of the task force's recommendations[37]. Eighteen are in the process of being implemented, and five are in the planning stages, he said.

In March, the task force[38] issued a 57-page report, which included a list of top-10 aggravators for university employees. The No. 1 aggravator was, "There are too many policies that change too fast, are difficult to understand, and are not easy to find."

Montez said significant progress has been made on three of the task force's recommendations calling for policy changes to occur no more than twice a year, the development of a new, user-friendly policy Web page where all policies can be found, and the elimination of any unnecessary policies.

To read more about the Task Force on Efficiency and to offer comments and suggestions, go to https://www.cu.edu/content/provideyourfeedback[35].

## CU to go live with new student information system features in August[39]

The MetamorphoSIS project, which will replace the university's outdated student information system, is preparing to go live this summer with two new features. [Photo by Glenn Asakawa]

The MetamorphoSIS Project, the University of Colorado's ambitious bid to replace its outdated 20-year-old student information system, is preparing to go live this summer with two new features, the first of several key launches over the next year and a half.

Nearly two years in the making, the new $50 million system will launch Aug. 3 with admissions and recruitment Web portals for students applying to all three CU campuses. The university plans to roll out the new system in stages through the end of 2010. Project funding will come mostly from initiative funding out of the CU president's office. CU is implementing the new Oracle-based system because the old one is no longer supported by current vendor technology, and to offer employees and students a more powerful, feature-rich computer database, according to administrators.

"The new system will provide improved functionality, access to information, and improvements to the services we currently provide to our students," said LeeAnn Baronett, the project's director of communications.

Among other features, the new student information system will enable university administrators to tap into more sophisticated reporting and analysis tools; improve data quality and timeliness; develop the information technology infrastructure necessary for high availability and reliability; establish processes and structures for cost-effective support; and incorporate best practices from project implementation into ongoing support and upgrades.

By the end of next year, system administrators will have rolled out new processing features covering several areas, including curriculum in September and financial aid, scholarships, student financials and enrollment deposits in November. Next year, rollouts will include financial aid processing in January; registration, financial aid award notices, process transfer credits for new students in degree audit, and transfer articulation system in February or March; student financials in July; financial aid disbursement in August; and transcripts and end-of-term processing between September and December.

University Information Systems began developing the new student information system in October 2007. According to Baronett, the portals are part of a larger, critical mission for the university to implement a system that gives CU a single record for all students with the flexibility to accommodate differences in student populations, campus policies and

processes.

"Campus Solutions," the system's primary component, will encompass functions related to student administration, faculty workload, and course management. It will also cover admissions and recruiting, student records, student financials and financial aid. Other components will help faculty and staff manage electronic documents, data and degree auditing, and will feature software for portals, master data management and Web-based training, Baronett said.

"Each component is connected to the others through interfaces, so that information is shared throughout the system," she said.

Baronett said the new Web portals that will go live on Aug. 3 will have a distinct visual presence, but share a wide range of features. A "dynamic presentation" feature will provide prospective students with personalized information and choices based on their status in the admissions process. Those who have filled out an admissions application will see different information and options than those who have not.

"Web visitors will be able to access a list of the next steps they need to complete in the application process. The software will also tailor information to match their academic majors and extracurricular interests," she said.

The portals will also include housing information; the ability to register for a campus visit; a cost estimator; frequently asked questions; and a search field to look up courses. Other planned enhancements include selective service information; deposit confirmations; requests to defer or cancel admissions; the ability to communicate with an admissions counselor; and information on how to participate in student orientation sessions.

In conjunction with the new student information system, the university will implement a new degree auditing/reporting system, or DARS[40], to track students' academic progress toward graduation.

**Additional Info:**MetamorphoSIS Project Timeline[41]

## CU researchers receive $13 million in federal stimulus funding so far[42]

Funds are important lifeline for university researchers

The University of Colorado has received 37 grants totaling $13 million in federal funding to advance scientific research, spur greater innovation and create jobs that will help stimulate the sluggish U.S. economy.

[43]To date, the university's three campuses have submitted 708 grant applications totaling $361 million under the American Recovery and Reinvestment Act, which President Barack Obama signed into law in Denver on Feb. 17. The act provides for up to $800 billion in new spending by Sept. 30, 2010.

While such federal funding is an important economic lifeline, CU and other large public research universities can only use the grant dollars for project proposals submitted by researchers. Teresa Osborne, a budget and finance director in system administration and the university's lead analyst of stimulus funding data, said CU relies on state funding and tuition revenue to pay for day-to-day operations, facilities upkeep and improvements, and salaries for faculty and staff.

According to Osborne, CU campuses have applied for and received the following funding to date:
University of Colorado at Boulder: 180 grant applications totaling $125 million 18 awards totaling $7 million University of Colorado at Colorado Springs: 12 grant applications totaling $6.7 million 18 grant proposals still underway University of Colorado Denver (Downtown Campus and Anschutz Medical Campus) 516 grant applications totaling $229.2 million 19 awards totaling $6 million.
CU campuses expect to apply the federal funding to a broad array of research projects and research facility improvements. About 94 percent of the university's current requests for federal stimulus research funding have been through the National Institutes of Health, and most of the awards received have been through the NIH, Osborne said.

An example of the awards CU has received is the more than $3 million grant that will advance research by Marc Moss, MD, a pulmonary critical care doctor at the University of Colorado Hospital and a professor in the UC Denver School of Medicine.

Moss will lead a five-year clinical study that will look at a dysfunction of the nerves or muscles called polyneuromyopathy, which is often a consequence of being on mechanical life support for seven days or more. Stimulus funding through the National Institute of Nursing Research, one of the NIH's 27 affiliated institutes, will pay for the first two years of Moss' study, which he and his team will launch on July 1.

Working with 400 patients, the researchers will strive to uncover a less invasive way to diagnose the condition and find out if intensive physical therapy will improve patient outcomes. NIH funding will pay for the final three years of the study as well.

NIH funding will also support the work of researchers on other CU campuses. CU-Boulder chemistry and biochemistry Professor Marcelo Sousa received a $740,796 award for two years of cell protein research, and biology Professor Michael W. Klymkowsky received a $317,000 award to investigate factors that cause defects in embryonic cells that produce more than 400 types of human birth defects.

CU researchers also have received almost $5 million from the National Science Foundation, and have applied for research funding through six other federal agencies covering areas such as health and human services, defense, energy, justice, education and the arts, according to Osborne.

Professor's invention could improve how doctors treat vascular disease[44]

A new noninvasive technology developed by a University of Colorado professor could soon give doctors real-time information about blood flow and artery blockages, vital details needed to treat patients suffering from stroke and other vascular disease symptoms.

Robin Shandas[45], a mechanical engineering professor at CU-Boulder and a professor of pediatrics and cardiology at the University of Colorado Denver, invented a technology that uses ultrasound and FDA-approved "microbubbles" to track blood flow.

Under an exclusive licensing agreement announced on June 23, Illumasonix LLC, a Colorado-based medical device company, will develop Shandas' technology and take it to market as early as 2011. Allied Minds[46]formed Illumasonix in 2007 with undisclosed initial capitalization and research funding and $250,000 in matching state funds.

The CU Technology Transfer Office[47], which announced the licensing agreement, said Shandas' invention offers a new medical diagnostic tool that combines the high resolution of magnetic resonance imaging (MRI) with the ease of use and speed of ultrasound. The technology will be especially beneficial to doctors treating patients suffering from stroke and other vascular diseases.

Earlier this year, Illumasonix reported positive initial results from its ongoing human feasibility study of Shandas' technology, and anticipates its first product offering in early 2011. Allied Minds Vice President Erick Rabins, who also manages Illumasonix, said the technology would provide a substantially more accurate and predictive way to assess cardiovascular health than current treatment methods.

"We believe it will become the primary tool used to determine when and if surgical intervention is required," he told the Technology Transfer Office.

First developed in the mid-1990s, microbubble[48] technology has been touted as a revolutionary medical treatment for a broad spectrum of fields such as gene therapy and chemotherapy. The tiny bubbles form when doctors mix an oily solution and inject the frothy result into the bloodstream. When ultrasound is applied, the bubbles display clear pictures of organs, offering doctors insight into a patient's internal health.

The scans, which are available in a matter of minutes, are said to be less expensive than CT scans and MRI images, which can take hours to develop. In recent years, doctors have also explored the use of microbubble technology for targeted drug therapy treatments, eliminating the need to bombard a patient's entire body with a drug and reducing the risk of side effects.

Cardiovascular and neurovascular diseases affect millions of people each year. Stroke is the third-leading cause of death and disability in the United States, and health care professionals often use the axiom "time is brain" to impress the importance of early treatment for stroke patients. In some cases, even the smallest lag in treatment can lead to brain damage, paralysis or death. According to the American Heart Association, stroke warning signs[49] include sudden confusion, trouble speaking or understanding, trouble seeing in one or both eyes, and dizziness or loss of balance.

'The Human Touch' strives to promote better health care through art[50]

Rembrandt's "The Anatomy Lesson"

Can medical school students connect with patients through art to inspire more humane health care? Can reflective writing about the universality of the human condition create better dialogue among doctors, nurses and patients? Can premed students gain insights into their chosen profession by studying Rembrandt's "The Anatomy Lesson?"

Medical school students and health care providers on the University of Colorado Denver Anschutz Medical Campus whose poems, essays and photographs are featured in the 2009 anthology "The Human Touch" believe the answer to these questions is "yes."

The cover of "The Human Touch" anthology

At the heart of the book, now available for free to faculty and staff on all three CU campuses, is the premise that art can create greater understanding between patients and health care providers and among doctors, nurses and others working in the medical field.

"There are interfaces between medicine and literature, film and art," said Henry N. Claman, MD, a Distinguished Professor of allergy and clinical immunology in the School of Medicine and director of the medical humanities program at the Center for Bioethics and Humanities. "Medical humanities is a growing discipline, integrating the arts, literature and music into the medical curriculum."

The Center for Bioethics and Humanities launched its medical humanities program in 2002, joining some 50 other medical schools across the United States that have included similar programs in their curricula with an eye toward promoting a more humanistic approach to health care. The program requires medical school students to produce reflective writing about their classes, basic science and their experiences with patients and others at hospitals, clinics and hospices.

"The Human Touch" is a product of those efforts. Medical school students edited the book, and their artwork is featured in it as well.

Henry N. Claman, MD

Claman said the program also encourages medical school students to explore their feelings in the treatment of patients through medical narratives. Such narratives can help students develop keener skills of observation, analysis and

empathy-all much-needed qualities in an era when doctors and other health care providers are maligned, sensationalized or misrepresented by the popular media.

"We want to know how they feel. What are the non-medical issues involved," he said.

"It gets rather complicated."

Claman highlights several writers of note when drawing from art in the classroom, including W. Somerset Maugham, John Keats and Anton Chekhov, who all began their careers as physicians. Over the summer, he plans to teach two seminars for high school students from rural Colorado communities, and will help the aspiring premed students explore the themes that connect art and medicine through an analysis of Rembrandt's masterpiece "The Anatomy Lesson."

In the 1632 painting, seven men look on as a doctor begins examining the corpse of a thief who has been executed. "We'll talk about lighting, what's in the painting and what's not in the painting," he said. "I'll do the same thing that I do with my medical students, and that is to remind them that a good psychiatrist pays attention to what the patient did not say."

Although his students have tried to introduce him to television programs such as "House" and "Scrubs," both fictional TV series set in the medical field, Claman has little patience or time for television. Even so, he worries about sensationalistic or reductive Hollywood portrayals of the medical profession.

He and others in the health care profession worry that new TV shows such as "Nurse Jackie" and "Hawthorne" could add to the mix of public perceptions about how doctors, nurses and other health care professionals operate in the real world, and may create false expectations.

"It's a legitimate question. It's a concern for serious thought, and that is, how our doctor-patient relations are portrayed in the popular media," Claman said. "How many millions of people watch these shows? The fact is, not every doctor is portrayed sympathetically."

Claman is skeptical of how doctors and nurses are portrayed by film and television writers, but he acknowledges that some in the medical field have contributed to negative public perceptions. The medical humanities program at the UC Denver School of Medicine and others like it aim to improve the relationship among doctors, nurses and their patients, as well as the profession's image.

"Doctors are supposed to be super human, but we have trustworthy anecdotes about some doctor-patient encounters which were not optimal," he said. "So, yes, there's a need for this."

Bill "Buffalo" Harris[51]

Bill Harris (right) poses with former Buff tailback Eric Bieniemy at the 2008 Spring Game dinner [Photo, CUBuffs.com

Longtime University of Colorado at Boulder Alumni C-Club Director **Bill "Buffalo" Harris** is retiring.

For the past nine years, Harris[53] helped the CU Foundation involve former student athletes on campus by providing opportunities for them to participate in various alumni functions and activities. Harris specifically sought to strengthen the Black Alumni Association on the Boulder campus.

Working to promote a strong alumni base, Harris' efforts helped improve alumni connections, which can help fundraising efforts and help build the department's public presence.

A former CU-Boulder football player, Harris ranks among the top 30 Buffs for all-time rushing and all-purpose yards. He

lettered in football three times between 1961 and 1963. The New York Giants drafted him, but he never played in the National Football League. He played for the Canadian Football League in both Ottawa and Calgary in the 1960s.

Harris poses for a shot in the 1960s Photo, CUBuffs.com

Professor Nien-Yin Chang[55]

[56]

Professor **Nien-Yin Chang** has accepted the position of interim dean of the University of Colorado Denver College of Engineering and Applied Science.

UC Denver Provost Roderick Nairn said Chang[57] would begin serving in the role immediately. Chang has been at UC Denver since 1975. He became a full professor in 1985, and served twice as chair of the civil engineering department.

"Professor Chang's encyclopedic knowledge of the college and the Downtown Campus will serve him well in this new role," Nairn told engineering faculty and staff in a May 18 internal memo.

Nairn expects to announce the members of a search committee to find a permanent replacement for outgoing Dean Renjeng Su, who has accepted a position at Portland State University's Maseeh College of Engineering and Computer Science.

**Links**
[1] https://connections.cu.edu/people/professor-perry-dickinson[2] https://connections.cu.edu/file/peopledickinsonjpg[3] https://connections.cu.edu/stories/cu-foundation-wins-national-fundraising-award[4] https://connections.cu.edu/file/campusuccshutchensjpg[5] http://www.case.org/[6] http://www.cufund.org/giving-opportunities/[7] https://connections.cu.edu/stories/center-american-west-compiles-online-report-about-oil-shale[8] https://connections.cu.edu/across-cu/center-of-the-american-west-compiles-online-report-about-oil-shale/campus_ucb02-2[9] http://www.centerwest.org/[10] http://www.colorado.edu/news/r/3b6d0df58b0301cbbad20df7ad17df6b.html[11] https://connections.cu.edu/across-cu/center-of-the-american-west-compiles-online-report-about-oil-shale/campus_ucb01-2[12] http://en.wikipedia.org/wiki/Oil_shale[13] https://connections.cu.edu/across-cu/center-of-the-american-west-compiles-online-report-about-oil-shale/campus_ucb04-2[14] https://connections.cu.edu/stories/new-science-and-engineering-building-gets-thin-film-solar-panels[15] https://connections.cu.edu/file/campusuccs-eng-bldgjpg[16] https://connections.cu.edu/stories/study-breastfed-babies-do-well-high-school-go-college[17] https://connections.cu.edu/file/campusucd-reesjpg[18] http://www.journals.uchicago.edu/toc/jhc/current[19] https://connections.cu.edu/file/campusucd-sabiajpg[20] https://connections.cu.edu/stories/five-questions-richard-d-krugman[21] https://connections.cu.edu/news/five-questions-for-richard-d-krugman/5q-krugman-front-2[22] http://www.ucdenver.edu/about/WhoWeAre/Chancellor/ViceChancellors/HealthAffairs/Pages/Biography.aspx[23] https://connections.cu.edu/stories/june-22-board-regents-meeting[24] https://www.cusys.edu/newsletter/2009/06-24/budget.html[25] https://www.cusys.edu/newsletter/2009/06-24/consolidation.html[26] https://www.cusys.edu/newsletter/2009/06-24/consolidation_Review.pdf[27] https://www.cusys.edu/newsletter/2009/06-24/capitalconstruction.html[28] https://connections.cu.edu/people/arthur-j-

nozik[29] https://connections.cu.edu/file/peoplenozikjpg[30] https://connections.cu.edu/stories/uccs-nine-other-southern-colorado-colleges-advance-education[31] https://connections.cu.edu/people/james-terrence-mccabe[32] https://connections.cu.edu/file/peoplemccabejpg-0[33] https://connections.cu.edu/stories/system-policy-office-prepares-biannual-rollout-aps-changes[34] https://www.cusys.edu/policies/[35] https://www.cu.edu/content/provideyourfeedback[36] https://connections.cu.edu/stories/task-force-efficiency-gives-president-update[37] https://www.cu.edu/efficiency[38] https://www.cu.edu/content/members[39] https://connections.cu.edu/stories/cu-go-live-new-student-information-system-features-august[40] https://metamorphosis.cu.edu/news/Lists/MetamorphoSIS%20Project%20News/Attachments/10/MetamorphoSIS%20Project%20News%20-%20June%2009.pdf[41] https://www.cusys.edu/newsletter/2009/06-24/sis_timeline.pdf[42] https://connections.cu.edu/stories/cu-researchers-receive-13-million-federal-stimulus-funding-so-far[43] http://www.recovery.gov/[44] https://connections.cu.edu/stories/professors-invention-could-improve-how-doctors-treat-vascular-disease[45] http://www.colorado.edu/mechanical/people/faculty/shandas.html[46] http://www.alliedminds.com/Portfolio/Illumasonix/index.htm[47] https://www.cusys.edu/techtransfer/[48] http://en.wikipedia.org/wiki/Contrast-enhanced_ultrasound[49] http://www.americanheart.org/presenter.jhtml?identifier=4742[50] https://connections.cu.edu/stories/human-touch-strives-promote-better-health-care-through-art[51] https://connections.cu.edu/people/bill-buffalo-harris[52] https://connections.cu.edu/people/bill-buffalo-harris/people_harris01-3[53] http://www.cubuffs.com/ViewArticle.dbml?DB_OEM_ID=600&ATCLID=33675[54] https://connections.cu.edu/people/bill-buffalo-harris/people_harris02[55] https://connections.cu.edu/people/professor-nien-yin-chang[56] https://connections.cu.edu/file/people-changjpg[57] http://www.cudenver.edu/Academics/Colleges/College%20of%20Engineering%20and%20Applied%20Science/Civil%20Engineering/Faculty/Chang/Pages/default.aspx