CU study: Federal labs a $1.5 billion economic driver for the state[1]

Colorado-based federal laboratories and their affiliates contributed $1.5 billion to the state economy in fiscal year 2010, and accounted for more than 16,000 jobs, directly and indirectly, a new study shows.

The dollar figure is a 36 percent increase over the $1.1 billion impact for fiscal year 2007, when the Business Research Division of the University of Colorado Boulder's Leeds School of Business last conducted a survey and analysis.

The study, "Impact of Federal Research Laboratories in Colorado, 2009-2010,"[2] was done at the behest of CO-LABS[3], a consortium of federally funded scientific laboratories, universities, businesses, local governments and community leaders.

There are 24 federal labs in Colorado, ranging from large institutions such as the National Renewable Energy Laboratory and the National Oceanic and Atmospheric Administration to smaller organizations such as the Bureau of Reclamation Technical Services Center and the Cooperative Institute for Research in the Atmosphere.

The new study, released Thursday, March 31, and available for review at the CO-LABS website at www.co-labs.org[3], was prepared to quantify the economic impacts that federal research facilities and their university affiliates have on Boulder, Jefferson and Larimer counties, and on the state of Colorado.

The study also aimed to assess the impact of the American Recovery and Reinvestment Act (ARRA) on the Colorado labs and on the surrounding communities. It found that total ARRA construction spending jumped from $2.7 million in FY 2009 to $102.7 million in 2010.

"Colorado is home to some of the most advanced research labs in the world," said Gov. John Hickenlooper. "Their work impacts every aspect of our lives – from the basic research that created the technology for cell phones to predicting the next tsunami. The labs are critical to our state's economy, providing more than 16,000 jobs in partnership with Colorado universities and industry."

Net economic benefits to Boulder County totaled $463.8 million in FY 2010, while the totals for Jefferson and Larimer counties were $413.2 million and $99.5 million, respectively. Economic benefits to the rest of the state totaled $523 million. In total, the facilities account for 7,964 direct jobs in Colorado and an additional 8,521 indirect jobs in FY 2010.

Total construction at the facilities, which occupy 4.7 million square feet of leased and owned real estate, topped $84 million in FY 2009 and $201 million in FY 2010.

The study is an update of an economic impact study conducted for CO-LABS by the Leeds School's Business Research Division in 2008.

The study applied the framework of the Insight Colorado Model to gather data, and utilized IMPLAN to quantify the economic and fiscal impacts of federal research facilities and their affiliates by examining:
Economic benefits, such as dollars distributed through the economy Public revenues, such as tax revenues generated Public costs, such as providing government services to the labs and their employees
Sources of the impacts include construction, operations and off-site and secondary effects. Secondary or multiplier effects estimate the indirect employment and earnings generated due to the relationship between the labs and other industries. A lab that spends money on goods and services, while offering partnerships and internships, for example, supports other jobs and other manufacturing operations. The presence of its employees supports retail, entertainment and other industries.

Below is a list of federally funded research entities in Colorado identified by CO-LABS:
Bureau of Reclamation, U.S. Department of the Interior (BuRec) Centers for Disease Control and Prevention (CDC/DVBID) Cooperative Institute for Research in the Atmosphere (CIRA) Cooperative Institute for Research in Environmental Sciences (CIRES) JILA Laboratory for Atmospheric & Space Physics (LASP) National Ecological Observatory Network (NEON) National Institute of Standards and Technology (NIST) National Oceanic and Atmospheric Administration (NOAA) Earth System Research Laboratory (ESRL) National Geophysical Data Center

(NGDC) National Weather Service (NWS) National Environmental Satellite, Data, and Information Service (NESDIS) Space Weather Prediction Center (SWPC) National Institute of Standards and Technology (NIST) National Renewable Energy Laboratory (NREL) National Telecommunications and Information Administration (NTIA) University Corporation for Atmospheric Research (UCAR) National Center for Atmospheric Research (NCAR) U.S. Department of Agriculture - Agricultural Research Service (ARS) Natural Resources Research Center National Center for Genetic Resources Preservation Crops Research Laboratory Central Great Plains Research Station U.S. Department of Agriculture - Rocky Mountain Research Station (RMRS) U.S. Department of Agriculture - National Wildlife Research Center (NWRC) DOT/FRA-Transportation Technology Center (TTC) U.S. Air Force Academy (USAFA) U.S. Geological Survey (USGS)
CO-LABS was organized to establish Colorado as a global leader in research, technology innovation, and commercialization.

ISIS: With implementation complete, problem-solving stage begins[4]

As the first school year for the Integrated Student Information System (ISIS) – the new platform for student information and services – winds down, a new phase of the project has begun.

University Information Systems (UIS) is leading the ISIS Stabilization Project, an effort to make improvements based on feedback from users, as well as to take full advantage of the powerful system, which replaced the 20-year-old mainframe system. The old Student Information System (SIS) had grown outdated and no longer was supported by the original vendor.

Traci Saige, ISIS associate director, said the stabilization phase represents a new direction after a three-year implementation phase.

"When you go through an implementation, the questions begin with, 'How do we first upgrade? How do we first schedule classes?'" she said. "Now we're in the redefining phase, where we're asking, 'What things can we make better?' This phase is much more detail oriented and analytical."

The goal of stabilization, which will continue through early 2012, is to ensure the system is operating reliably and predictably in a user-friendly way. To that end, UIS held sessions last fall with nearly 400 users, representing offices of admissions, bursar, financial aid and registrar, as well as staff, faculty and students. They generated more than 800 comments about the system.

One of the most common complaints from students: Common pop-up blockers on web browsers prevented easy access to tuition bills on the system.

"The students spoke up very loudly," Saige said. "It was inconvenient for students and an easy fix for us." By resolving the issue in November, the complaints weren't repeated at the beginning of the spring semester.

Other problems identified from user feedback are being prioritized so that the most critical needs are addressed first.

More ISIS user feedback sessions are planned for April; campus liaisons will announce details.

"We know a lot of folks were concerned with implementation," Saige said. "What that phase has done is get them excited about technology in general: 'What if we could do this? Wouldn't it be neat?' There's a level of excitement about making their lives more efficient through being tech-savvy."

A summary of the priorities and progress for ISIS is posted here[5]. The online report will be updated quarterly to reflect new input from system users.

Five questions for Rudy Betancourt[6]
Photo by Juan Carlos Huerta
Rudy Betancourt
Photo by Juan Carlos HuertaRudy Betancourt

The soundtrack of Rudy Betancourt's biography ranges from the percolating rhythms of Latin America to the lush symphonies of old Europe, from quiet folk to noisy rock 'n' roll. Since July, he has taken his life in music to Macky Auditorium Concert Hall, where he's director of CU-Boulder's venerable venue. Though the 2,600-seat hall didn't open for performances till 1923, its cornerstone was laid Oct. 8, 1910, which inspired a current, ongoing celebration of Macky's first century.

A native of Venezuela who has been in the U.S. since 1995, Betancourt's expertise at classical guitar led to stints performing and recording with the Colorado Symphony Orchestra. He also leads his own trio that melds world beats and jazz influences. But because a shoulder injury has limited his playing capacity, he's happy to work in theater management, taking part in a mission with kindred spirits.

Besides overseeing a staff of 120, three of them full-time, Betancourt works at scheduling events – revenue generators for the university. "Part of the job this year is to raise awareness of Macky as a happening place within the campus and within Boulder," he says. That shouldn't be difficult in the days ahead: The Conference on World Affairs returns for its annual week of speaking engagements and discussions starting Monday; the following Saturday brings comedian Bill Maher to the Macky stage.

— Jay Dedrick

1. Before coming to CU, you were director of marketing and communications for Denver's Swallow Hill Music Association. How much of the history of Macky were you familiar with before beginning this job, and what have you learned since then?

(Laughing) It's almost like night and day. I only knew the shows I came to see. I didn't know about the centennial, or how many great events happened here – Yo-Yo Ma was here in the '90s, the Dalai Lama has been here. I didn't know what a big resource it is for the university and for Boulder. A lot of people don't know about that, and we had to change that.

I'm still learning, and I think I'm going to be learning for the next 10 years. We just developed a new website with a blog[8], we're getting into social media[9] to show people what happens here backstage[10]. We opened a 100-year-old time capsule last fall, and we'll place a new time capsule in the terrace this fall.
Photo Illustration by Casey A. Cass/University of Colorado
This composite image shows Macky Auditorium in the 1920s and as it looks today.
Photo Illustration by Casey A. Cass/University of ColoradoThis composite image shows Macky Auditorium in the 1920s and as it looks today.

2. As a musician, what do you find special about Macky, and how does your musical experience influence your work as a concert hall director?

What's special is that it's very easy to create an atmosphere. I haven't played on the stage here, but when we had Joshua Redman here in January, he was amazed by how intimate the environment was for him, even though there are 2,000 people here. At other places this size, it seems like there's an invisible wall between the artist and audience. At

Macky, it's like they're sharing the same air. The audience is going to have a much greater experience because the artist is doing something he doesn't do every day.

I can understand how the artists need a special atmosphere. Part of that is something as basic as the heating system. We want the audience to be comfortable because they will enjoy the artist more. And the artist will perform well because he won't think about frozen fingers. In the summer, we don't want the artist worried about sweating on stage. We'll have a cooling system installed by June, and that will help us with our summer programming.

If the artist has a great experience at Macky, the artist will tell the manager and promoter. That message spreads, and we can bring in higher-caliber artists. At the same time, the audience is going to go back to their networks and talk about the experience they had at Macky. So it all adds up.

3. Live performance has much more competition for people's time than it did a century ago. What does it take to keep the auditorium a relevant, successful enterprise today?

People may see the same artist on YouTube, but they won't feel that kind of almost religious experience that's at a live performance. The recording industry is in shambles right now. The growth of electronic media is actually stalling. There is something going on in the music realm, and I see live performance coming back in the next few years, little by little. It's an experience you cannot have by yourself in your car or your living room. We have to be creative in our marketing and not look like a dinosaur, but live performance has been with us for 5,000 years. And it has survived. I don't think it's going away.

4. Where's the best seat in the house?

In the middle of the orchestra on the left, closer to the soundboard. It depends on the concert. With amplified rock or jazz, you want to sit as close as possible to the soundboard – that's the case anywhere, not just at Macky. With classical, I tend to sit in the balcony.

I never sit on the center. I sit on the sides. The center is like a photo frame. On the sides, you can see more profiles, it's more three-dimensional, there's more depth than if you're sitting front and center.

5. You and your wife, Rebecca Laurie, are raising your 6-year-old son, Aden, in Englewood. You grew up in Caracas, Venezuela. How will your boy's exposure to music compare to what you experienced as a child?

His will be totally different. I'm the first in my family to have graduated from college (bachelor's degree from the Manhattan School of Music; master's degree from the University of Denver). My parents are not musicians. So it's a very different experience for him.

My dad gave me full exposure to Latin music. My mom exposed me to classical music, especially baroque, and my cousin exposed me to rock 'n' roll. My son's MP3 player goes from the Nutcracker to "Back in Black" by AC/DC to the Banana Splits. It's very cool.

Japan relief efforts active on campuses[12]

To aid those affected by the Japan earthquake, students at the University of Colorado have organized campaigns to raise funds for relief efforts.

The 8.9 magnitude quake struck March 11, leveling homes and businesses. The quake – the biggest recorded in Japan – triggered a tsunami that devastated coastal areas. In the days that followed, the world learned that the country's Fukushima nuclear power plant had been severely damaged.

Thousands were killed and many more are still missing. Hundreds of thousands of evacuees are staying in shelters, but many must struggle to find food and a safe place to stay.

Students at the Boulder campus have formed "CU Stands With Japan[13]" to aid with recovery efforts. Currently the campaign is focused on raising money for Red Cross relief in Japan.

Several upcoming events will help raise awareness and funds:
April 15 – Japan Day at CU-Boulder, organized by the Japanese Student Association at Boulder. The event begins at 5 p.m. at the University Memorial Center. April 16 – International Festival at CU-Boulder, organized by International Fair, University Memorial Center. April 17 – charity concert at the College of Music; details to come. April 23 – Charity concert organized by the Japanese Academy of the Rockies in the Front Range Community College cafeteria. The event runs from 2 p.m. to 5 p.m.
The University of Colorado Denver Office of Student Life[14], along with Metropolitan State College of Denver and the Community College of Denver, also are collecting Red Cross donations.

Through Thursday, March 31, from 11 a.m. to 3 p.m., students, staff and faculty volunteers will have donation buckets available in the Tivoli Commons area on the Auraria Campus. Those who donate may sign their names on cherry blossom petals which will be placed on a tree displayed in the Tivoli.

Nuclear power among myriad topics to be addressed at CWA[15]

The University of Colorado Boulder's 63rd annual Conference on World Affairs (CWA) returns to campus Monday, April 4, through Friday, April 8, with more than 200 events, including talks, panel discussions and a plenary address by Graham Nash and David Crosby – all free and open to the public.

Presenters from around the country and the globe will pay their own way to travel to Boulder to participate in what film critic Roger Ebert once dubbed the "conference on everything conceivable."

"The Conference on World Affairs has a long history of addressing nuclear power and weaponry topics, and this year will be no exception," said Bryan New, advertising and media liaison for the conference. "Among our 100 speakers will be some focused on nuclear nonproliferation, including Graham Nash, David Crosby, Harvey Wasserman and Joe Cirincione."

Joe Cirincione, Ploughshares Fund president and frequent media commentator, will deliver a talk titled "Know Nukes" at 2 p.m. Tuesday, April 5, in the University Memorial Center, room 235. His books include "Bomb Scare: The History and Future of Nuclear Weapons" and "Deadly Arsenals: Nuclear, Biological and Chemical Threats." Cirinicione also serves on the World Economic Forum Global Council on Catastrophic Risks.

Longtime activist and author Harvey Wasserman will deliver a plenary talk, "Dead and Deadly Nukes: From Fukushima to Solartopia," at 5 p.m. Thursday, April 7, in the University Memorial Center's center ballroom. Wasserman is credited with coining the phrase "No Nukes" and cofounded NukeFree.org[16] with Bonnie Raitt, Jackson Browne and Graham Nash.

Nash and Crosby are scheduled to deliver the CWA's closing plenary address, titled "Life Matters," at 2:30 p.m. Friday, April 8, in Macky Auditorium, with introduction by KBCO's Bret Saunders.

Crosby and Nash have been performing and recording together for more than 40 years, most often as part of the iconic folk/rock group CSNY, which also features Stephen Stills and Neil Young. The two are committed social activists, with strong ties to the antinuclear movement. Along with Stills, they participated in the 1979 No Nukes concerts months

after the Three Mile Island disaster. The CWA address will focus on social and political engagement.

As always, the CWA will offer a broad range of topics and speakers. Conference sessions encompass everything from music and literature to the environment and science, journalism, visual arts, diplomacy, technology, film, politics, business, medicine and human rights.

Highlights from the 2011 schedule include:
The keynote address will be delivered by Liz Coleman, president of Bennington College and a leading innovator in higher education, with an introduction by CU-Boulder Chancellor Philip P. DiStefano, at 11:30 a.m. Monday, April 4, in Macky Auditorium. The keynote address will be preceded by the CWA's annual opening procession. Led by Coleman and DiStefano, the procession will advance at 11:10 a.m. through the avenue of international flags on display in the Norlin Quadrangle and into Macky Auditorium. The keynote address will be followed by a staged reading of the play "Red Hot Patriot: The Kick-Ass Wit of Molly Ivins," with celebrated Shakespearean actress Tina Packer reading in the role of Ivins. Ivins was a longtime participant in the CWA. The co-playwright of "Red Hot Patriot," Peggy Engel, also is a veteran conference presenter and will participate in a variety of sessions at the 2011 CWA. This event also will be held in Macky Auditorium. Sen. Kyrsten Sinema, D-Arizona, will join retired Arizona sheriff Richard Mack and Austin journalist Lou Dubose for a panel called "Arizona: Coming to a State Near You" in Macky Auditorium at noon Thursday, April 7. A plenary session will feature Bill Nack, whose New York Times bestseller "Secretariat" was made into a Disney film. Nack will speak about his relationship with the most famous horse in racing history in the CWA session "Secretariat" at 12:30 p.m. Friday, April 8, in Muenzinger Auditorium. Secretariat owner Penny Chenery will introduce the session, and historic film clips of the horse will be presented.
Members of the public attending the conference are encouraged to use public transportation as there is no event parking on campus. Free parking is offered on the third level of the Macy's parking structure at the Twenty Ninth Street shopping mall in Boulder, located at the southwest corner of 30th Street and Walnut Street, from which a free HOP bus ride is available to campus during CWA week. Free parking and bus service for the CWA are sponsored by the Twenty Ninth Street and Go Boulder.

The HOP will run on its normal route arriving every seven to 10 minutes between the hours of 7 a.m. and 7 p.m. Monday through Friday. The two stops nearest the Macy's parking structure are at 29th and Walnut streets and 30th and Walnut streets.

For a complete schedule and more information visit the Conference on World Affairs website athttp://www.colorado.edu/cwa[17].

[Meeting summary: Boulder Faculty Assembly][18]

Editor's note: In addition to news coverage of meetings of the systemwide Faculty Council and Staff Council, theFaculty and Staff Newsletter posts meeting summaries or minutes as provided by councils and assemblies at the campus level. To submit material, please e-mail Jay.Dedrick@cu.edu[19].

Boulder Faculty Assembly meeting
March 3, 2011

For more detailed information please visit www.colorado.edu/BFA[20] to read the most recent minutes, reports, current motions before the assembly and other items of interest to the faculty.

I. Chair's Report:
BFA Election - Balloting (ended) March 10. The BFA will then seek nominations for BFA officer positions from among current and newly elected BFA members. The BFA is also seeking candidates to represent the Boulder Campus at Faculty Council, the CU systemwide governance group. **Severance Pay in Cases of "For Cause" Dismissal** - The

Regents are moving to eliminate this type of severance pay but Faculty Council has proposed an alternative policy to give discretion over severance pay to the P&T Committee. (The BFA gave its support for the proposed alternative.)
Instructor Status. The Division of Faculty Affairs has proposed a system for instructor promotion in which instructors would be hired on a three-year letter of offer, renewable once, with a fifth-year review for promotion to Senior Instructor. Those who are not promoted would not be renewed. The deans (were to) discuss the proposal on March 25. It may be possible to implement it before May. The deans have been asked to seek input from faculty. The BFA encourages all faculty to provide it.
II. Special Report: Regent Joe Neguse – Neguse reported that budget issues are the largest thing on the regents' agenda. He added that he has proposed a Student Health Insurance task force to investigate cost savings from pooling students among the campuses. On the possible discontinuance of the Journalism School, he reported that the president will soon make a recommendation to the regents. Neguse welcomed faculty opinions as to both the process and the merits of discontinuance.

III. Resolution of BFA Support for Issues of Diversity, Equity and Inclusion – The BFA approved a Diversity Committee resolution encouraging open dialogue about responsible citizenship both on and off campus, and expressing support for the chancellor and provost's work in diversity, equity and inclusion.

IV. Special Report: Athletics Director Mike Bohn - The highlights of the report:
Athletics negotiated with ESPN and the Pac-12 to reschedule a weekday football game this fall to a Friday evening, based on input from the BFA Intercollegiate Athletics Committee. The new practice facility on the north side of the Events Center will reduce class conflicts for student athletes, as it eases competition for afternoon practice space. CU has negotiated the Pac-12's transition to an equal revenue-sharing model beginning 2012. The Pac-12 network may be able to cover academics and research on a time-available basis. Athletics is proud of its students' relatively high GPAs and graduation rates as a whole. Athletics' recent investment in assistant coach salaries will ensure CU has talented recruiters to get the kinds of student athletes who will perform well both academically and on the field. The donor benefit seating program will be finalized this year. Athletics has reserved Section 220 for those ticket-holders who do not want to make the required donation. Athletics is on track to pay off its $8 million loan from CU. All resources needed for that obligation are self-generated. Additional costs for increased assistant coach salaries have been more than covered by donations on the strength of CU's move to the Pac-12.
V. The next BFA meeting is 4-5:30 p.m. Thursday, April 7, in Wolf Law room 204.
Speakers include BFA officer candidates for senate year 2011-2012. All faculty are welcome to attend.

Former Mexican president to speak at Macky Auditorium[21]

Vicente Fox, former president of Mexico, will speak at the University of Colorado Boulder's Macky Auditorium at 7:30 p.m., April 13. He is coming to campus at the invitation of the Distinguished Speakers Board, a student organization at CU-Boulder.

Fox will present "Surveying the Geo-Political Landscape" and speak on his perspective on the state of the world. He will touch on the relationship between the United States and Latin America, the role of the United Nations and the promises of globalization, both fulfilled and unfulfilled. There also will be a question and answer session.

Tickets are $1 for students with a valid Buff OneCard. Community tickets are $15 for general admission and $30 for priority seating, and are being sold through Ticketswest.com[22] and local King Soopers locations.

Doors will open at 6:45 p.m. No backpacks or skateboards are allowed inside the building.

"We believe Mr. Fox gives an important voice on the current geopolitical climate," said Punam Chatterjee, Distinguished Speakers Board chair. "He can provide a new understanding of current economic and social challenges as well as provide his perspective on global leadership. We also believe he will connect with many students, as well as

the community, because of his expertise in many fields and because of current events."

Fox was president of Mexico from 2000 to 2006. When elected, he ended the rule of the Institutional Revolutionary Party. During his term in office he succeeded in controlling inflation and interest rates, and in achieving the lowest unemployment rate in Latin America. He studied business administration at the Universidad Iberoamericana and afterward pursued a Top Management Diploma at the Harvard Business School.

Fox has four adopted children. He was born in Mexico City in 1942 and grew up on San Cristobal Ranch in the municipality of San Francisco del Rincon, in Guanajuato state. Post-presidency, he wrote an autobiography, "Revolution of Hope: The Life, Faith and Dreams of a Mexican President," and travels for public speaking engagements.

"Fox's experiences as a businessman, educator, politician and leader in a foreign country are attractive to the CU community, which appreciates diverse perspectives," said Taylor Coughlin, Distinguished Speakers Board public relations director.

The Distinguished Speakers Board mission is to attract "speakers of the highest caliber, who will intellectually stimulate the student body and the surrounding community. Ultimately, we hope to inspire people by bringing some of the world's greatest minds to the University of Colorado Boulder."

The board is a student-run organization and part of the CU student government. Previous speakers brought to CU-Boulder by the board have included Queen Noor, Thomas Friedman, B.B. King, the Rev. Desmond Tutu, Howard Dean and Karl Rove.

Ben & Jerry's co-founder to share stories of sweet success[23]

Jerry Greenfield

Jerry Greenfield, co-founder of Ben & Jerry's Ice Cream, will talk about values-led leadership, social consciousness and entrepreneurship at an April 7 fundraiser for University of Colorado Colorado Springs student scholarships.

Greenfield and Ben & Jerry's co-founder Ben Cohen are known for using their values-based business practices to build a $300 million ice cream empire from a single Burlington, Vt., storefront.

Greenfield's address will begin at 5 p.m. at the Gallogly Events Center. The event includes a reception, book signing and Greenfield's comments. Tickets are free to UCCS students; $20 for the general public. They can be purchased at www.ticketswest.com[25]. Event proceeds will support scholarships to UCCS.

"This is an opportunity for all of our students to learn how socially responsible business practices are good for business," said Tracy Gonzalez-Padron, director of the Daniels Fund Ethics Initiative in the College of Business. "This reinforces what students are learning about business ethics and responsible management in the classroom from a recognized business leader."

Co-author with Cohen of the bestseller "Ben & Jerry's Double-Dip: Lead With Your Values and Make Money, Too," Greenfield created both a nuts-and-bolts guidebook to the promise and pitfalls of values-led business, and an inspiring wake-up call about the growing international influence of the socially conscious or mission-driven corporation.

Greenfield's presentation is a tribute to America's entrepreneurial spirit, full of anecdotes and radical business philosophy. It also addresses the great sense of fun that is the company's hallmark, illustrated with the serving of Ben

& Jerry's ice cream for the entire audience.

Greenfield was born in Brooklyn, N.Y., four days before his future business partner Cohen. He grew up and went to school in Merrick, Long Island. It was there that he first met Ben in junior high school and the two have remained close friends. Greenfield graduated from high school with a National Merit Scholarship and enrolled at Oberlin College to study pre-med.

At Oberlin, Greenfield got his first taste of the ice cream industry when he took a job as a scooper in the college cafeteria. After graduation, he worked as a lab technician in New York and lived with his school buddy, Ben. In 1977, the two friends decided to fulfill a dream they both shared: running a food business together. The two eventually settled on ice cream and opened Ben & Jerry's Homemade Ice Cream Parlor in Burlington, Vt., in May 1978.

Ben and Jerry soon became known throughout Vermont for their rich, unusual flavors and community-oriented approach to business. A model for American business success, Greenfield and Cohen have been recognized for fostering their company's commitment to social responsibility by the Council on Economic Priorities and by the U.S. Small Business Administration, which named them U.S. Small Business Persons of the Year in 1988.

The Daniels Fund Ethics Initiative at the UCCS College of Business is co-presenting the event along with the CU Foundation, the UCCS Auxiliary Services Department and the Office of Student Activities.

"Helping to bring this level of expertise to UCCS is one of the most exciting aspects of the Ethics Initiative at the College of Business," said Venkat Reddy, dean of the College of Business. "It's a benefit that reaches beyond our students to our faculty, staff, alumni and community."

The College of Business Ethics Initiative is part of a five-year program supported by a $1.25 million grant from the Daniels Fund. The purpose of the College of Business Ethics Initiative is to instill ethical principles into the personal and organizational decision-making process of every member of the UCCS community. This integrative learning environment will create leaders with integrity, capable of responsible global business management and conscious of the accountability inherent in corporate governance.

Video of jIr8eow3Ft0

CU team identifies new colon cancer marker[26]

Vasilis Vasiliou

A research team at the University of Colorado Cancer Center [28]has identified an enzyme that could be used to diagnose colon cancer earlier. It is possible that this enzyme also could be a key to stopping the cancer.

Colon cancer is the third most common cancer in Americans, with a one-in-20 chance of developing it, according to the American Cancer Society. This enzyme biomarker could help physicians identify more colon cancers and do so at earlier stages when the cancer is more successfully treated.

The research was led by Cancer Center investigator Vasilis Vasiliou, Ph.D., professor of molecular toxicology at the University of Colorado School of Pharmacy, and published online in Biochemical and Biophysical Research Communications. Vasiliou's laboratory specializes in understanding the role of enzymes called aldehyde dehydrogenases in drug metabolism, metabolic diseases, cancer and normal and cancer stem cells.

Vasiliou's team studied colon cancers from 40 patients and found a form of this enzyme known as ALDH1B1 present in

every colon cancer cell in 39 out of the 40 cases. The enzyme, which is normally found only in stem cells, was detected at extraordinarily high levels.

"Other potential colon cancer biomarkers have been identified in the past, but none thus far are present in such a high percent of the cancer cells and virtually none are overexpressed like this one," said Cancer Center investigator David Orlicky, Ph.D., associate professor of pathology at the CU medical school and a member of the research team.

This finding is particularly timely as it was recommended at the recent Human Genome 2011 annual meeting that a chemical analysis for biomarkers should always accompany genotyping in early detection of colon cancer, says Vasiliou, who attended the meeting in Dubai.

It appears that ALDH1B1 aids the development or growth of these cancer cells because it would not be present in every cell at such high levels if it were simply a byproduct of the cancer. Based on this finding, the enzyme may provide a way to treat the disease, said Ying Chen, Ph.D., lead author and assistant professor of molecular toxicology at the CU School of Pharmacy.

The team is now studying how this enzyme is up-regulated into colon cancer cells and its exact role in the physiology of the tumor cells, Vasiliou said. The team also is seeking to understand the substrate, inhibitors and activators of ALDH1B1.

"Our efforts are focused on developing a drug that could turn into a toxic compound and kill the cancer cell when acted upon by the enzyme," Vasiliou said. "It would act like a suicide pill, if you will."

Vasiliou's team is collaborating in this work with laboratories at the National Cancer Institute, Scripps Research Institute in California, University of Melbourne in Australia, University of Heidelberg in Germany and Oxford University in the United Kingdom.

"This work will be considered a landmark in the understanding of basic metabolic processes within the colon cancer cell," Orlicky said.

ConocoPhillips pledges $3.5 million for Biotech Building[29]

Houston-based energy firm ConocoPhillips has made a major gift toward the University of Colorado Boulder's Jennie Smoly Caruthers Biotechnology Building to bring together world-class scientists and engineers working toward solutions in fields such as medicine and energy.

ConocoPhillips intends to follow up a $1 million January cash gift with proposed future gifts of $2.5 million over the next two years, for an anticipated total of $3.5 million toward an area of the building to house the Department of Chemical and Biological Engineering. The department will be one of three CU-Boulder units to occupy the 336,000-square-foot building on the East Campus, along with the Division of Biochemistry and the Colorado Initiative in Molecular Biotechnology (CIMB). Researchers will begin occupying the building in early 2012.

"The Jennie Smoly Caruthers Biotechnology Building creates a Front Range anchor for the biosciences with the help of partners like ConocoPhillips," said CU-Boulder Chancellor Philip P. DiStefano. "With interdisciplinary research, the possibilities for energy innovation are limitless, and ConocoPhillips is providing the foundation for this vital work."

The gifts will name the ConocoPhillips Center for Energy Innovation, and bring under one roof select researchers from two research programs it supports, the Colorado Center for Biorefining and Biofuels (C2B2) and the Renewable and Sustainable Energy Institute (RASEI).

The Caruthers Biotechnology Building aims to dissolve walls and promote collaboration among science and engineering disciplines. Chemical and biological engineering faculty will work with researchers in nearly a dozen academic disciplines and with partners including the National Renewable Energy Laboratory and ConocoPhillips. In all, the building will house 60 tenure-line faculty, 500 graduate students and research associates, and undergraduates working on critical challenges in biotechnology.

CU-Boulder chemical and biological engineers will pursue research that may herald:
More efficient biofuels production, thanks to novel microbial technologies discovered by the lab of Associate Professor Ryan Gill, C2B2 managing director Improved transfer of biomass into synthetic fuels, based on pioneering work by Professor Alan Weimer, C2B2 executive director Improved capture of carbon at energy plants, based on liquid membrane technology conceived in the lab of Professor Richard Noble
ConocoPhillips currently sponsors more than $2 million in CU-Boulder faculty research contracts for 2011-13. The university is one of nine participants in the ConocoPhillips SPIRIT Scholars program, which provides scholarships, mentorship and enrichment for students interested in energy careers. CU alumni who have held ConocoPhillips leadership positions include Tom Sears ('52), James Gallogly ('74) and Carin Knickel ('79). The firm is a founding member and lead sponsor of C2B2.

With these gifts, nearly $40 million in private support has been raised for the building. Its construction is funded by a variety of private and public sources including a $15 million American Recovery and Reinvestment Act (ARRA) grant.

CU-Boulder's Department of Chemical and Biological Engineering ranks among the top 10 public graduate programs in the U.S. Its faculty have been awarded more than $25 million in research grants in the past two years, and have won more American Institute of Chemical Engineering awards this past decade than at any university except the University of Texas.

ConocoPhillips is an integrated energy company with interests around the world. Headquartered in Houston, the company had approximately 29,700 employees, $156 billion in assets and $189 billion in revenue as of Dec. 31, 2010. For more information go tohttp://www.conocophillips.com[30].

[Law School names first Schaden Chair in Experiential Learning][31]

Wesson

Marianne "Mimi" Wesson has been appointed the first Schaden Chair in Experiential Learning, a newly endowed position at the University of Colorado Law School.

Wesson has been a member of the faculty for more than two decades, teaching and researching in the areas of criminal law, evidence and trial advocacy. She practiced criminal law as an assistant attorney general for the state of Texas and as an assistant U.S. attorney for the district of Colorado.

"Mimi brings the right balance of traditional classroom teaching and hands-on law practice as the inaugural Schaden Chair," said University of Colorado Law School Dean **David Getches.** "We are delighted to have her as a member of our faculty and that she has accepted this new position."

Wesson has been a member of the Criminal Law Test Development Committee of the National Conference of Bar Examiners for more than 30 years, including several years as its chair. Her expertise has made her an often-sought commentator for several media outlets, including NBC, ABC, CBS, MSNBC, the Washington Post, the Dallas Morning News and The Denver Post. She also has been a legal correspondent for National Public Radio.

Wesson also is an accomplished novelist with three works of fiction published: "A Suggestion of Death," "Render Up the Body" (for which she was named a finalist for the Colorado Book Award) and "Chilling Effect." Her next book, "A Death at Crooked Creek: The Hillmon Case and the Supreme Court," is scheduled to be published in 2012.

"I've always thought that in law teaching, theory and practice are not antagonistic, as they are sometimes portrayed, but mutually reinforcing," Wesson said. "Nothing makes theory more vivid and useful than example, and nothing makes practice more virtuosic and flexible than an understanding of the theory that it serves.

"Linking the two in legal education can be immensely powerful. We've accomplished this link in many ways in the recent past, but this Schaden gift will allow us to pursue this enterprise in a more sustained, thoughtful and productive way. I'm very honored to have been chosen to lead it."

The Schaden Chair in Experiential Learning is funded by an endowment from Richard F. and Rick E. Schaden. The endowment was designed to enhance Colorado Law's clinical programs, externships, appellate and moot-court competitions, and fund additional voluntary pro bono work.

The $5 million endowment is the largest of several recent Colorado Law gifts by the Schadens, who also were instrumental in helping to fund the Wolf Law Building. Richard F. Schaden of Boulder County is an aeronautical engineer, businessman, restaurateur, highly recognized trial lawyer and founding partner of the aviation and public-interest law firm Schaden, Katzman, Lampert and McClune. His son Rick E. Schaden of Denver graduated magna cum laude from the University of Colorado Denver in 1987, and is founder, chairman, and – with his father – majority shareholder of Quiznos, building the company since 1991 to more than 5,000 franchises worldwide.

Early career honor goes to assistant professor for algebra project[33]

Langou

Julien Langou, Ph.D., an assistant professor of mathematical and statistical sciences at the College of Liberal Arts and Sciences (CLAS) at the University of Colorado Denver, recently received the Faculty Early Career Development (CAREER) National Science Foundation (NSF) award, the second CAREER award for CLAS and the third for the CU Denver.

Langou's $400,000 award is a five-year project titled "Foundations for Understanding and Reaching the Limits of Standard Numerical Linear Algebra."

The prestigious CAREER award is given to faculty in the early stages of their academic careers who have exhibited excellence in research and teaching.

"Dr. Langou has shown extraordinary growth as a faculty member since arriving at CU Denver," said **Michael Jacobson,** Ph.D., chair of the CU Denver mathematical and statistical sciences department.
"Not only has he become one of the leaders within the Department's Research Group in Computational Mathematics, he tirelessly supervises doctoral students, in addition to having taken on a departmental leadership role as the director of undergraduate studies, over which time the department has revamped the undergraduate degrees offered."

According to the study abstract[35], faster numerical simulations are critical, having applications in numerous areas, for example, in the basic sciences for enabling novel scientific discoveries, or in engineering, for developing new products and ultimately maintaining the competitiveness of the industry. Numerical simulations are used virtually everywhere in daily life today. For example, numerical simulations enable better models for weather forecasting, resulting in more accurate forecasting, and more accurate models for automobiles or aircraft before construction.

Overall, Langou's research leads to a better understanding of algorithms and their intrinsic limitations, and eventually results in better, near-optimal algorithms.
Components of this research represent tremendous challenges given the complexity of the current computing architecture and the problem to be solved. The results of this research will be communicated in classes, and through the publication of a book, the distribution of source codes and the development of web documents.

Hai Lin, Ph.D., assistant professor of chemistry, received the first CU Denver College of Liberal Arts and Sciences CAREER award in 2010.

Procurement pro earns association honor[36]

Morrow

Darlene Morrow of the Procurement Service Center (PSC) was named Buyer of the Year for 2010 by the Rocky Mountain Governmental Purchasing Association (RMGPA) on March 18 during the association's spring conference in Boulder.

Morrow was evaluated in three areas of contribution: to the university, to the association and to the National Institute for Governmental Purchasing (NIGP) and the procurement profession. The honor recognizes dedication and professionalism.

Morrow has been a purchasing agent with PSC since 2001. She is responsible for managing procurements related to official functions, audio-visual and photography equipment, paper products, and printing/publications. She also was the purchasing agent for numerous strategic sourcing procurements.

"We at the PSC have recognized Darlene's excellent qualities for a long time," said **Sandy Hicks,** assistant vice president and chief procurement officer. "It's nice to know that others, too, recognize her talents and commitment to her profession. We're very proud of her."

RMGPA is the Colorado and Wyoming affiliate of NIGP. The association's goal is to provide membership with the education, professional development and technical assistance required to secure the public trust through the promotion of excellence and effectiveness in public purchasing.

Dropping names ...[38]

Grover

Fred Grover, M.D., has been named a Distinguished Fellow by the American College of Cardiology[40] (ACC).Grover, who is stepping down as chair of the department of surgery at the University of Colorado School of Medicine, has been invited to speak at the upcoming ACC meeting on "Outcomes Registries: Why They Are Important and Why They Should Work Together." ... Copies of "Sixty Years on a Cutting Edge[41],"the new book by **Bruce Paton**, M.D., on the history of the School of Medicine's surgery department, have been delivered to all members of the state Legislature

and Gov. John Hickenlooper by the Colorado Medical Society. Paton served as chair of cardiac surgery at the University of Colorado for 20 years. An accompanying note reminds the leaders of benefits provided to the state by the medical school in terms of research, instruction, patient care, community outreach and financial return on investments.

President's town hall tour begins Friday[42]

University of Colorado President Bruce D. Benson's spring series of town hall meetings begins Friday, April 1, on the University of Colorado Colorado Springs campus, with stops at the other three campuses slated for later in the month.

The format will be similar to the meetings Benson led last fall, with an opportunity for audience questions. The president will focus on the university budget, state funding and other legislative issues affecting CU.

The full schedule:
University of Colorado Colorado Springs
10 a.m. Friday, April 1, University Center, Room 302 **University of Colorado Denver**
3:30 p.m. Monday, April 11, Lawrence Street Center, 1380 Lawrence St., Second Floor Terrace Room **University of Colorado Boulder**
10 a.m. Wednesday, April 13, Old Main**Anschutz Medical Campus**
3:30 p.m. Thursday, April 21, RC2, Trivisible Room, Second Floor

Voting under way for Boulder Staff Council members[43]

The election ballot for the 2011 University of Colorado Boulder Staff Council nominees is posted and accepting votes. Classified and professional exempt staff may vote for area representatives and at-large representatives.

Voting closes Friday, April 15, with new members taking office July 1.

To vote, go to http://www.colorado.edu/staffcouncil/[44], click on Election Ballots, locate your building and click on area. Questions: scouncil@colorado.edu[45] or 303-492-5473.

Links
[1] https://connections.cu.edu/stories/cu-study-federal-labs-15-billion-economic-driver-state[2] http://www.colorado.edu/news/downloads/Final_Report.pdf[3] http://www.co-labs.org/[4] https://connections.cu.edu/stories/isis-implementation-complete-problem-solving-stage-begins[5] https://www.cu.edu/isispriorities[6] https://connections.cu.edu/stories/five-questions-rudy-betancourt[7] https://connections.cu.edu/sites/default/files/wp-content/uploads/2014/01/5q-page_betancourt.png[8] http://macky.colorado.edu/[9] http://www.facebook.com/MackyAuditorium?sk=wall[10] http://twitter.com/#!/MackyAuditorium[11] https://connections.cu.edu/sites/default/files/wp-content/uploads/2014/01/5q21.jpg[12] https://connections.cu.edu/stories/japan-relief-efforts-active-campuses[13]

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http://www.ucdenver.edu/life/services/studentlife/Events/Pages/HighlightEvent.aspx[15]
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https://connections.cu.edu/stories/ben-jerrys-co-founder-share-stories-sweet-success[24]
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https://connections.cu.edu/sites/default/files/wp-content/uploads/2014/01/amc_v.jpg[28] http://www.uch.edu/for-healthcare-professional/cancer-center/index.aspx[29] https://connections.cu.edu/stories/conocophillips-pledges-35-million-biotech-building[30] http://www.conocophillips.com/[31] https://connections.cu.edu/people/law-school-names-first-schaden-chair-experiential-learning[32] https://connections.cu.edu/sites/default/files/wp-content/uploads/2014/01/people_wesson.jpg[33] https://connections.cu.edu/people/early-career-honor-goes-assistant-professor-algebra-project[34] https://connections.cu.edu/sites/default/files/wp-content/uploads/2014/01/people_langou.jpg[35]
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