

Section 1

Board Chair's Agenda

Section 1

Public Comment

This Section intentionally left blank

Section 3

Chancellor's Report



OFFICE OF THE CHANCELLOR

**COLORADO STATE UNIVERSITY SYSTEM
CHANCELLOR'S REPORT**

October 5-6, 2023

CSU Systemwide

- The Board of Governors Strategic Overview is now live on the CSU System website (under the [“About”](#) tab).
- The CSU-System IT Alignment, led by CIO Brandon Bernier and Josh Clark, assistant VP for enterprise applications and infrastructure, has made significant progress in bringing together all IT staff, services, and support from CSU Fort Collins, CSU Pueblo, and Spur. All employees have transitioned into the flagship campus model as of July 1st. Phase I of a 3-phase effort is underway to standardize service portfolios, infrastructure, platforms, and support in a shared-services model. This initiative is scheduled for completion by August 2024. *(Priority 1.b.: Student Success – Enhance academic and co-curricular student experiences that contribute to student success; Priority 4.a.: Campus Collaboration – Pursue efficiencies that decrease bureaucracy and improve campus operations)*
- The new CSU Todos Santos logo and website, designed and implemented by System staff, launched in early September. The brand launch on the CSU Fort Collins campus created a new energy for the brand and excitement with students. *(Priority 3.1.b.: Innovation in Student Success & K-12 Relationships – Seek innovative ways to increase retention and expand opportunities)*
- Facilitated by Chief Academic Officer Dr. Roze Hentschell and Director of Academic Operations Emily Amedée, a systemwide team of campus leaders in the areas of student success, advising, academic affairs, information technology, and institutional research is applying for a Mid-Phase/Expansion grant under the US Department of Education’s Postsecondary Student Success Grant Program. The team is requesting a total of \$8M over a period of four years to elevate the Systemwide Collaborative for Advancing Learning and Equity with Data (SCALED-CSU) initiative. Building on the progress that CSU System campuses have made on student success over the last decade, the overarching goal is to eliminate equity gaps for all demographics by 2027. *(Priority 3.1.e.: Innovation in Student Success & K-12 Relationships – Explore innovative approaches to improve System funding/financing; Priority 4.d. Jointly explore new revenue-generating opportunities including grants, fundraising, efficiencies)*
- CAO Hentschell and Emily Amedée have begun conversations with campus partners at CSU Fort Collins and CSU Pueblo to discuss opportunities for transfer across campuses. *(Priority 4.b.: Campus Collaboration – Prioritize innovative administrative practices that improve delivery of academic programs, accessibility, and fulfillment of our educational mission)*
- A team from CSUS, CSU, and CSUP is participating in a series of workshops on “Building Capacity on Campus for Systemic Change” organized by the Pullias Center for Higher Education at the University of Southern California. *(Priority 1.e.: Student Success – Develop a stronger sense of community and collaboration within the System for*



CSU SYSTEM

OFFICE OF THE CHANCELLOR

students, faculty, and staff; Priority 4.e.- Emphasize leadership development across the System, with joint opportunities that promote collaboration and partnership)

- The CSU System communications team has continued ongoing partnership conversations with the campus communication teams, including collaboration to amplify advertising spends, issues management communications, and online news websites. *(Priority 4.c.: Campus Collaboration – Elevate the profile of the System and campuses in ways that “raise all boats”)*
- Chancellor Frank led an all-System staff meeting at Spur in September. *(Priority 5.a.: Healthy Campuses – Sustain an excellent and highly motivated workforce as the foundation for institutional success)*
- The summer 2023 issue of STATE Magazine was mailed directly to 46,000 households, with 2,400 additional copies distributed on the CSU campuses. Copies were also distributed for visitors at Fort Collins hotels during Move-In week this fall. The STATE team (Executive Editor Coleman Cornelius and Designer Mary Sweitzer) won two Silver awards from the international Summit Creative Awards competition in September, one for the regular magazine and one for the inaugural issue of STATE Spotlight. Colleagues at UC Davis are using the magazine’s series on Spur as an example of how to showcase research, programs, and buildings in unique ways. *(Priority 4.c.: Campus Collaboration – Elevate the profile of the System and campuses in ways that “raise all boats”)*
- The CSU System released its [2023 Impact Report](#) this summer, highlighting achievements across the Systems campus and exploring Systemwide initiatives and activities that benefit the state, region, and world. Senior writer Anthony Lane led the project with the communications team. *(Priority 3.3.f.: Innovation & Additional Endeavors – Highlight innovation in reporting accomplishments of the CSU System)*

Campus Updates

- Chancellor Frank and Melanie Geary are providing staff leadership on the CSU Pueblo presidential search. *(Priority 5.a.: Healthy Campuses – Sustain an excellent and highly motivated workforce as the foundation for institutional success)*
- CSU Fort Collins is opening up its annual Symposium on Inclusive Excellence this fall to faculty, students, and staff at all System institutions. The weeklong symposium is delivered mostly online and includes workshops, keynotes, research presentations, and other opportunities to learn about issues related to diversity, equity, and inclusion in higher education. *(Priority 5.a.: Healthy Campuses – Sustain an excellent and highly motivated workforce as the foundation for institutional success; Priority 1.e.: Student Success – Develop a stronger sense of community and collaboration within the System for students, faculty, and staff)*
- Chancellor Frank joined University of Colorado President Todd Saliman for several media appearances prior to the Rocky Mountain Showdown in September. *(Priority 3.1.c.: Innovation in Student Success & K-12 Relationships – Develop innovative communication strategies to advance System goals)*
- CSU System staff are supporting planning activities around President Parsons’ investiture ceremony October 4. *(Priority 4.c.: Campus Collaboration – Elevate the profile of the System and campuses in ways that “raise all boats”)*



CSU SYSTEM

OFFICE OF THE CHANCELLOR

- The [CSU IT Strategic Plan](#), led by Peggy McCready, AVP for strategy & planning for the Fort Collins Division of IT, is making strong progress toward the four strategic initiatives outlined. Three of the initiatives—IT Security, IT Governance, and Operational Excellence—have now been elevated to the CSU System level and are moving forward as a coordinated effort across Fort Collins, Pueblo, and SPUR. Campus stakeholders and IT leaders from various colleges and divisions are actively engaged in the implementation. *Priority 4.a.: Campus Collaboration – Pursue efficiencies that decrease bureaucracy and improve campus operations*
- Chancellor Frank interviewed with a reporter from *The Chronicle of Higher Education* as part of a story in development about CSU Pueblo. *(Priority 3.2.c.: Innovation & Land-Grant Priorities – Communicate effectively about System impact and innovations that serve Colorado)*

CSU System Government Affairs – Federal

- Chancellor Frank has been actively engaged in a variety of federal outreach efforts within and outside of the Colorado delegation. *(Priority 3.2.c.: Innovation & Land-Grant Priorities – Communicate effectively about System impact and innovations that serve Colorado)*
- Rep. Joe Neguse hosted a service project and town hall on the Fort Collins campus in early September, highlighting the campus’s work with bison. *(Priority 3.2.c.: Innovation & Land-Grant Priorities – Communicate effectively about System impact and innovations that serve Colorado)*

CSU System Government Affairs – State

- Chancellor Frank and Senior Vice Chancellor Sobanet continue to have regular, targeted outreach with Colorado legislators, with the help of state lobbying team Mike Feeley and Rich Schweigert. *(Priority 3.2.c.: Innovation & Land-Grant Priorities – Communicate effectively about System impact and innovations that serve Colorado)*
- Senior Vice Chancellor Sobanet continues to serve on the Governor’s Task Force Concerning Tax Policy. *(Priority 3.2.d.: Innovation & Land-Grant Priorities – Lead strategic conversations and decisions around opportunities for innovation)*
- The Colorado General Assembly’s Capital Development Committee toured the Fort Collins campus on September 13 and 14. They visited and received presentations on VHEC expansion, State Forest Service, the new Laser facility, bat facility, Christman Airfield, Clark, Nutrien and the SLVRC Potato Facility. *(Priority 3.1.e.: Innovation in Student Success & K-12 Relationships – Explore innovative approaches to improve System funding/financing)*
- Governor Jared Polis visited the ARDEC Facility and toured the VHEC teaching hospital in August. *(Priority 2.2.d.: Land Grant Priority-Agriculture – Increase partnerships and collaborations across the state)*
- Assistant Vice Chancellor Kate Siegel Shimko is spearheading a collaborative process around elected official visits to all CSU campuses to ensure they are streamlined. This is also an effort to become a “location of choice” for elected officials. *(Priority 3.1.e.:*



CSU SYSTEM

OFFICE OF THE CHANCELLOR

Innovation in Student Success & K-12 Relationships – Explore innovative approaches to improve System funding/financing)

- CSU System staff are supporting the Thematic Year of Democracy at Fort Collins. AVC Kate Siegel Shimko has been instrumental in coordinating a visit by Governors Polis and Governor Cox of Utah to discuss their “Disagree Better” initiative in November. General Counsel Johnson and Deputy General Counsel Jannine Mohr will join President Parsons for a panel discussion on campus free speech in October. (This presentation will be recorded for use by all System campuses.) *(Priority 5.b.: Healthy Campuses – Promote campus climates in which the constitutional right to free speech is valued, promoted, and exercised)*
- CAO Hentschell and Emily Amedée continue to represent the system office at CDHE Academic Affairs and General Education committee meetings. *(Priority 1.a.: Student Success – Increase rates and improve equity of recruitment, enrollment, retention, and graduation)*

State and National Partnerships

- The implementation of the System’s partnership with College Track is underway after a successful grand opening of their Denver office space in The Shop at Spur. Chancellor Frank and College Track President Shirley Collado spoke at the opening event. *(Priority 3.1.a.: Innovation in Student Success & K-12 Relationships – Promote innovation in building pathways)*
- Staff from the Education Team at Spur and system Academic Affairs staff have been meeting quarterly with Colorado Education Initiative leadership to pursue career connected pathways for high school students in Colorado. *(Priority 3.1.a.: Innovation in Student Success & K-12 Relationships – Promote innovation in building pathways)*
- CAO Hentschell met with leadership from EAB, a national educational software company, to discuss the CSU system’s current contracts and how the partnership may be leveraged to greater effect. *(Priority 3.1.b.: Innovation in Student Success & K-12 Relationships – Seek innovative ways to increase retention and expand opportunities)*

CSU Spur

- Spur is wrapping up a brief strategic planning effort, with goals aligned with the System Strategic Priorities. *(Priority 3.2.d.: Innovation & Land-Grant Priorities – Lead strategic conversations & decisions around opportunities for innovation)*
- Spur’s attendance numbers continue to be strong, and our field trips are largely full for the fall semester. *(Priority 1.g.: K-12 Relationships – Increase and enhance K-12 engagement with Spur)*
- Recent events at Spur have included the AgCareers Conference, the Climate Democracy Initiative Conference, the World Trade Center Denver Annual Meeting, and an event for faculty member Camille Dungy, author of *Soil: The Story of a Black Mother’s Garden*. Upcoming events include the Salazar Center Symposium on North American Conservation, Latin Fashion Week, Hispanic Top Chef, the Global Forum for Rural Advisory Services, Girl Scout Day, and the Water in the West Symposium. *(Priority 3.2.b.: Innovation & Land Grant Priorities – Offer innovative opportunities and education)*



CSU SYSTEM

OFFICE OF THE CHANCELLOR

- CSU and Mindspark Learning launched Spur-based Problem Based Learning workshops, focused on training teachers in problem-based learning. Teachers from across the Denver metro area are participating. This work is part of the Morgridge Family Foundation funding of Spur and the College of Agricultural Sciences, and the Denver cohort is partnered with a Problem-Based Learning cohort at the Western Campus. *(Priority 1.i.: K-12 Relationships – Enhance the role campuses play in developing educators in and for the State of Colorado)*
- Spur sponsored Denver Startup Week, with great representation by Spur and CSU Fort Collins, including President Parsons. *(Priority 3.2.e.: Innovation & Land Grant Priorities – Grow strategic partnerships that support innovation)*
- Spur Second Saturdays continue to be a popular offering, with 200-350 people attending each month. Second Saturdays are themed each month and offer family-friendly activities. *(Priority 3.2.b.: Innovation & Land Grant Priorities – Offer innovative opportunities and education)*
- The CSU Spur website will be undergoing updates in the coming months to incorporate more information on the range of programs offered. Visit www.CSUSpur.org to see these updates. *(Priority 3.1.c.: Innovation in Student Success & K-12 Relationships – Develop innovative communication strategies to advance System goals)*
- Follow @CSUSpur for the latest updates; [click here for links to all social accounts](#).

CSU System Rural Broadband Project

- CSU System staff is working with our broadband consultant, NEO Connect, and with Internet Service Providers to prepare proposals for federal broadband funding for the counties of Huerfano, Custer, Chaffee, and Montezuma, the Ute Mountain Reservation, and the city of Kersey.
- The Broadband Project team, led by Pat Burns, worked with Larimer County to participate in a proposal for federal broadband funding to run fiber to the Pingree Park area and the CSU Mountain Campus. The team secured a cost-sharing commitment of \$300,000 (about 10 percent of the total cost) from CSU campus constituents. Service to the Mountain Campus will be provided by Connexion, the city of Fort Collins broadband provider.
- The project team is working with General Counsel Jason Johnson to prepare an action item for the Board that will allow for the installation of an Internet Exchange Point at CSU Pueblo, serving southwest Colorado.

(Priority 2.3.b.: Land Grant-Rural Development – Expand scope of rural development beyond agriculture and veterinary medicine)



OFFICE OF THE CHANCELLOR

Strategic Overview goals highlighted in green are noted at least once in this Chancellor's Report.

Priority 1: Student Success and K-12 Relationships
1.a. Increase rates and improve equity of recruitment, enrollment, retention, & graduation
1.b. Enhance academic and co-curricular student experiences that contribute to student success
1.c. Improve the transfer process for undergraduate students
1.d. Promote a "whole person" approach through resources and opportunities for students
1.e. Develop a stronger sense of community & collaboration within the System for students, faculty and staff
1.f. Provide excellent professional development for graduate students transitioning to the workforce
1.g. Increase and enhance K-12 engagements with Spur (in-person and online) across the state of Colorado
1.h. Improve K-12 outreach across the state to help improve awareness of opportunities & understanding of the benefits of a college degree
1.i. Enhance the role campuses play in developing educators in and for the State of Colorado
Priority 2: Land-Grant Priorities
2.1. LGP – Access & Affordability
2.1.a. Have a student body that reflects the State of Colorado
2.1.b. Ensure that student debt levels stay below the national mean of public peers
2.1.c. Improve coordination regarding credentialing, enrollment, and transfers
2.1.d. Expand relationships with high schools, community colleges, families, and rural communities
2.1.e. Encourage lifelong learning
2.2. LGP - Agriculture
2.2.a. Improve delivery of agriculture curriculum
2.2.b. Enhance our national recognition as a leader in agriculture
2.2.c. Support agriculture innovation and efficiency
2.2.d. Increase partnerships and collaborations across the state
2.2.e. Improve financing and investment into agricultural science
2.3. LGP – Rural Development
2.3.a. Improve place-based support and education services to allow people to grow and thrive in their communities
2.3.b. Expand scope of rural development beyond agriculture and veterinary medicine
2.3.c. Expose students in rural areas to more opportunities
2.4. LGP – Environmental Sustainability
2.4.a. Develop an interdisciplinary curriculum related to sustainability
2.4.b. Prioritize water as a primary area of focus for CSU
2.4.c. Showcase campus strengths in sustainability, water, soils, biodiversity, wildfires, climate science, adaptation, resilience, and natural resources
Priority 3: Innovation
3.1. Innovation in Student Success & K-12 Relationships
3.1.a. Promote innovation in building pathways
3.1.b. Seek innovative ways to increase retention and expand opportunities
3.1.c. Develop innovative communication strategies to advance System goals



CSU SYSTEM

OFFICE OF THE CHANCELLOR

3.1.d. Encourage innovation in CSU System and campus strategy and operations
3.1.e. Explore innovative approaches to improve System funding/financing
3.2. Innovation & Land Grant Priorities
3.2.a. Adopt innovative approaches to high school connections & opportunities
3.2.b. Offer innovative opportunities & education
3.2.c. Communicate effectively about System impact and innovations that serve Colorado
3.2.d. Lead strategic conversations & decisions around opportunities for innovation
3.2.e. Grow strategic partnerships that support innovation
3.3. Innovation & Additional Endeavors
3.3.a. Promote innovation in meeting state demand for nursing education
3.3.b. Innovate in faculty/postdoc sharing
3.3.c. Be a national leader in offering innovative adult learning opportunities
3.3.d. Offer innovative and attractive Summer Bridge Programs
3.3.e. Build agility across the System
3.3.f. Highlight innovation in reporting accomplishments of the CSU System
Priority 4: Campus Collaboration
4.a. Pursue efficiencies that decrease bureaucracy and improve campus operations
4.b. Prioritize innovative administrative practices that improve delivery of academic programs, accessibility & fulfillment of our educational mission
4.c. Elevate the profile of the System and campuses in ways that "raise all boats"
4.d. Jointly explore new revenue-generating opportunities including grants, fundraising, efficiencies
4.e. Emphasize leadership development across the System, with joint opportunities that promote collaboration and partnership
Priority 5: Healthy Campuses
5.a. Sustain an excellent and highly motivated workforce as the foundation for institutional success
5.b. Promote campus climates in which the constitutional right to free speech is valued, promoted, and exercised
5.c. Ensure a safe, accessible campus physical and online environment
5.d. Model the value we place on student and employee mental health and well-being



Chancellor Report

Board of Governors Meeting – October 2023

Five National, ATI-Related Findings Presidents Should Know

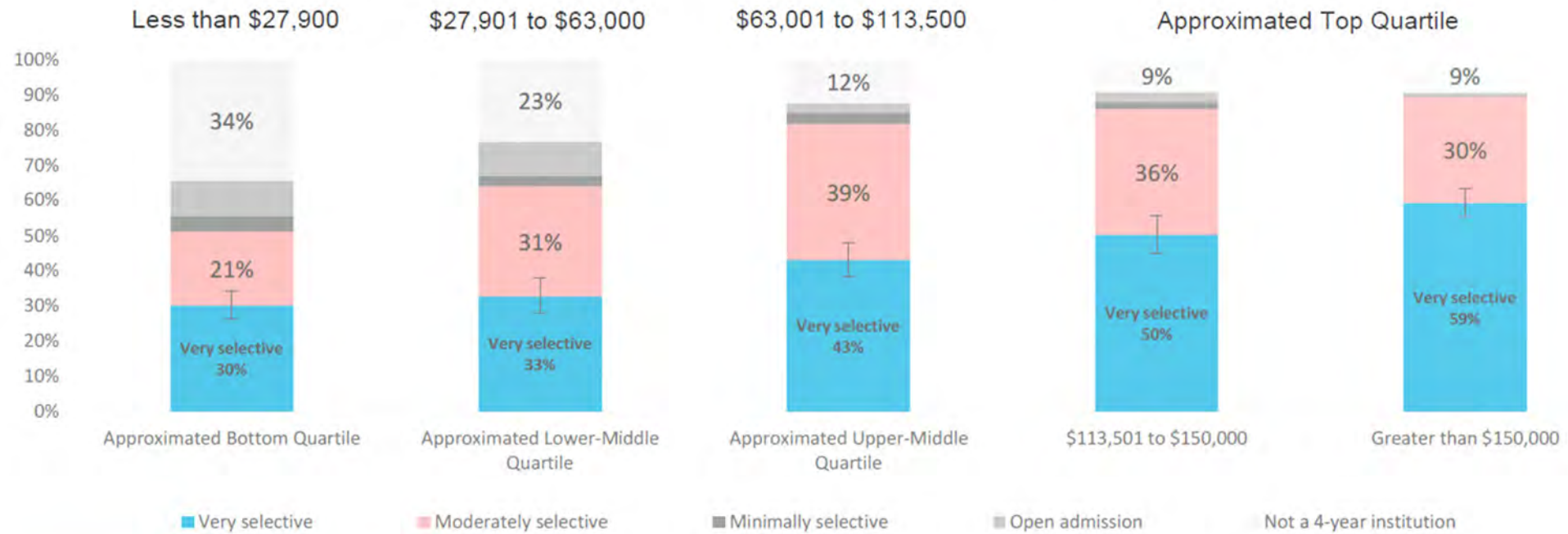
1. Disparities in access by income and race/ethnicity persist
2. Unaffordability is an access and completion issue
3. Gaps in bachelor's degree attainment are growing
4. Community college transfer outcomes remain stagnant and unacceptably low
5. Experiences in and outside of the classroom impact post-graduate success



1. Access

Where Do High-Achievers Across the Income Distribution Enroll?

Enrollment of Students with >1300 SAT by Institutional Selectivity and Approximated Income Quartile

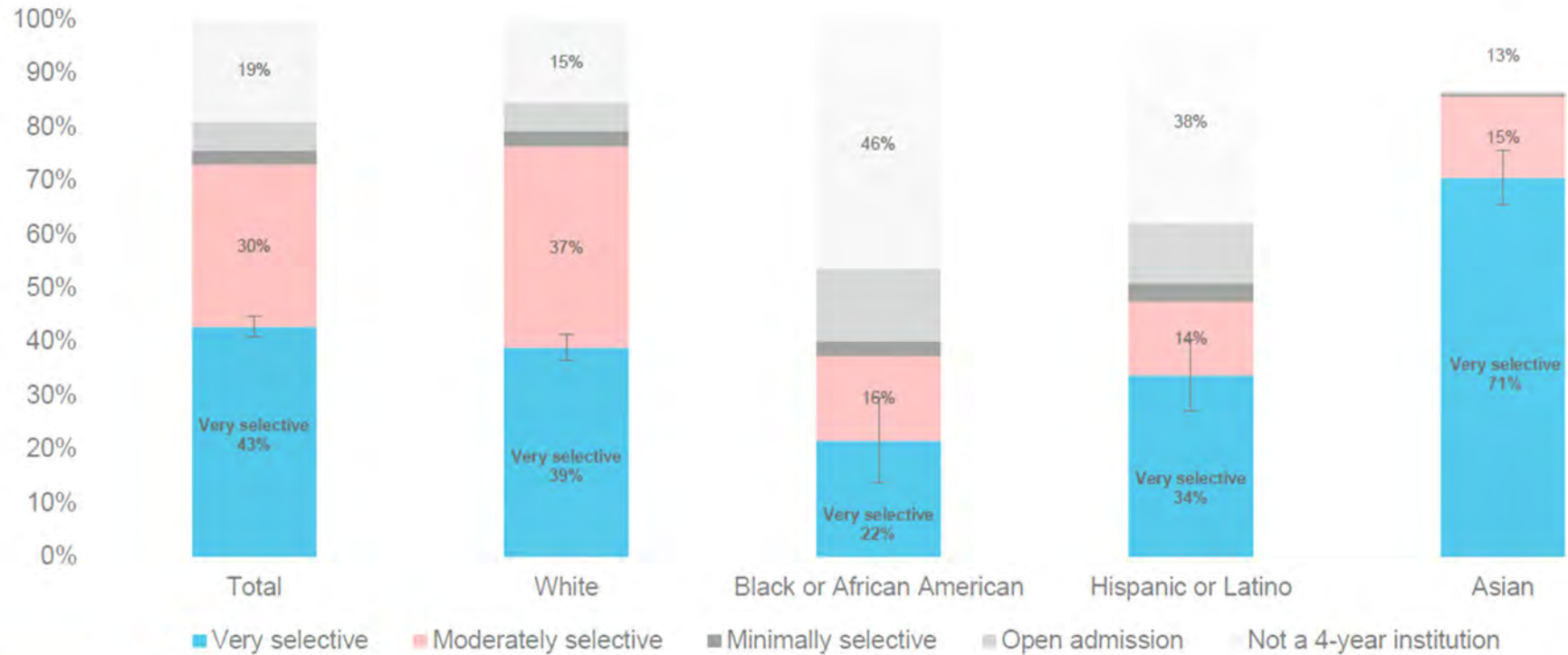


1. ATI Analysis of 2015-16 National Postsecondary Student Aid study Data



High-Achiever Enrollment by Race/Ethnicity

Enrollment of Students with >1300 SAT by Institutional Selectivity and Race/Ethnicity (Domestic Students)



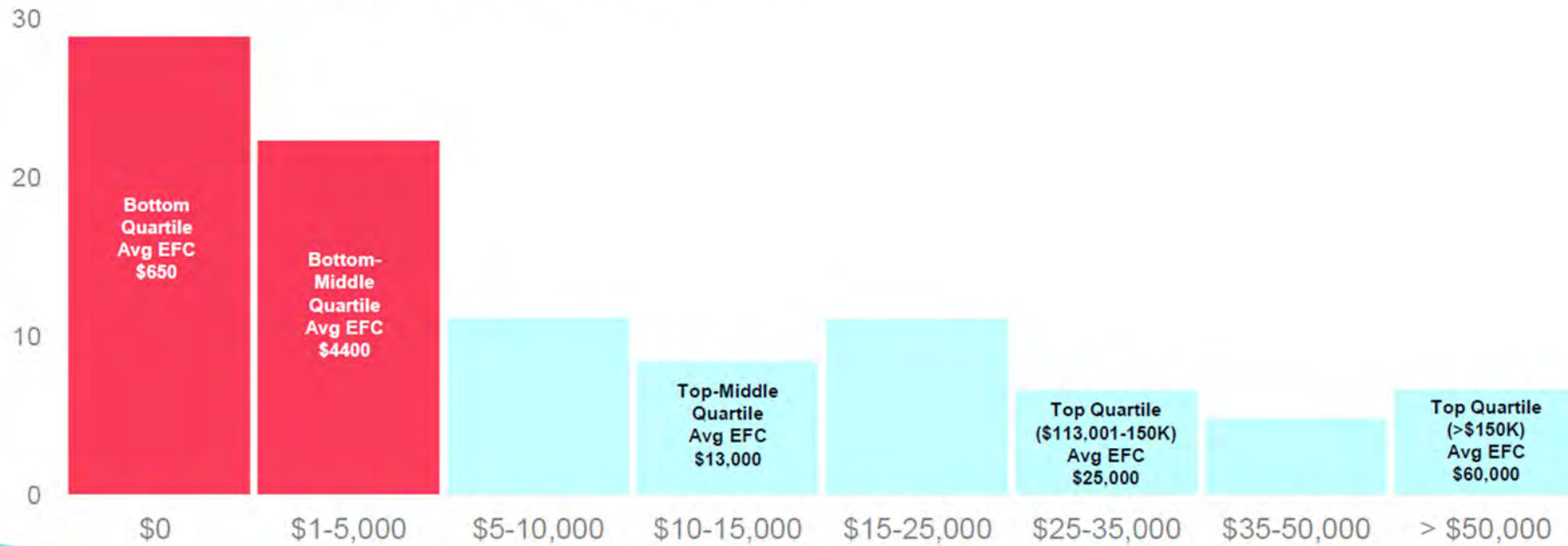
1. ATI Analysis of 2015-16 National Postsecondary Student Aid study Data



Most US Families Need Substantial Financial Support to Access Higher Education

40 Distribution of expected family contribution at four-year public and private non-profit institutions, full-time students, NPSAS 2015-16¹

51% of families can contribute \$5000 or less.



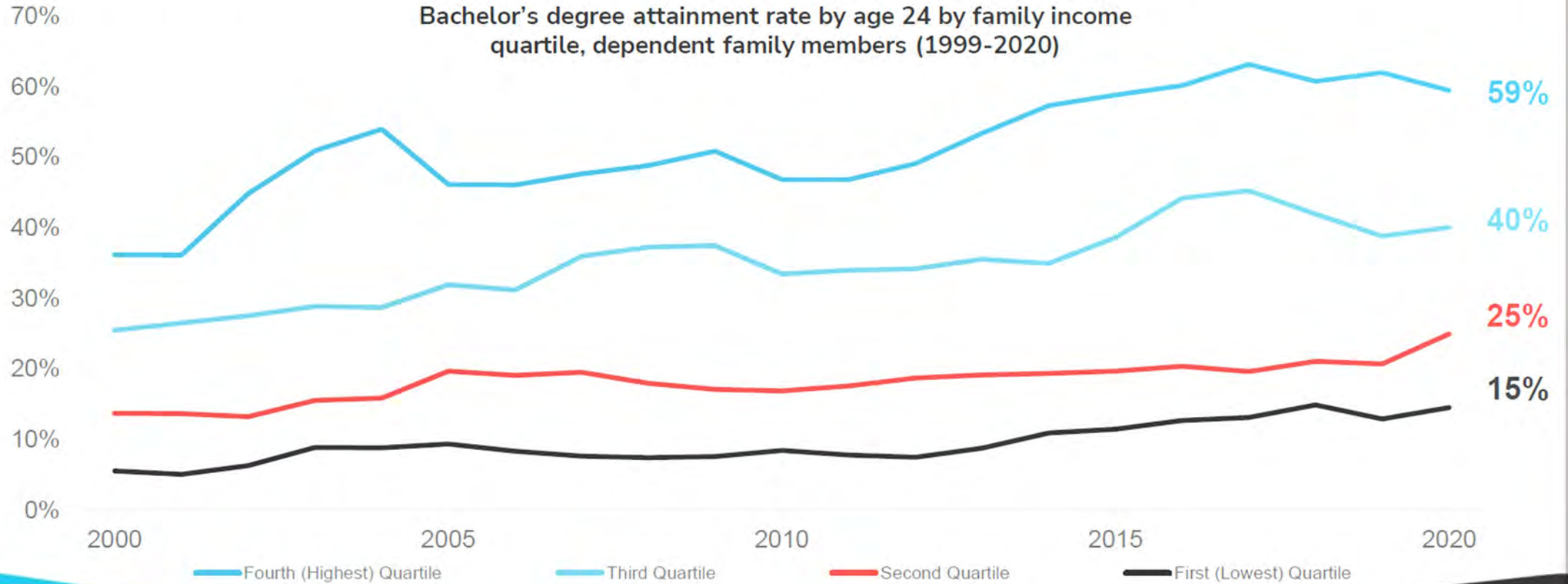
1. ATI Analysis of 2015-16 National Postsecondary Student Aid study Data



3. Completion

Gaps in BA Attainment for Lowest-Income Young People are Growing

Bachelor's degree attainment rate by age 24 by family income quartile, dependent family members (1999-2020)



Opportunity to Improve Outcomes in the Adult Population

150 million

*Adults over 25 without a
bachelor's degree*

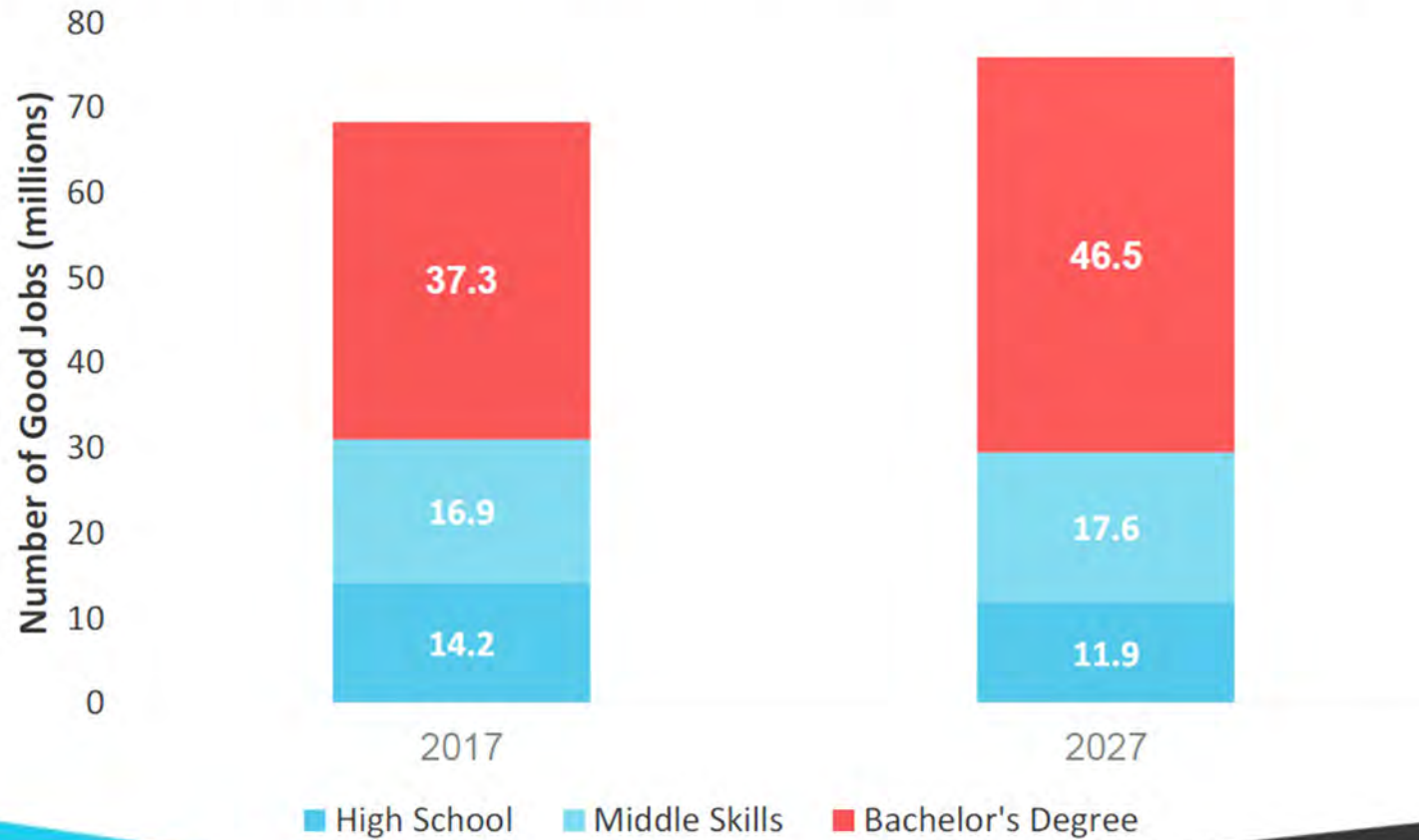
40.4 million

*Adults with credits,
but no degree*

*Spiked by 1.4M in
just one year*



More Bachelor's Degrees Are Needed for the Jobs of the Future



Georgetown Center for Education and the Workforce



Community College Transfer Requires Major Reform

80% of community college students want a bachelor's degree



31% of community college students transfer to a four-year institution



15% of community college students will graduate with a bachelor's degree within six years of starting college



Upward transfer decreased by 14.5 percent between Fall 2020 and 2022, mirroring national declines in community college enrollment



QUESTIONS?



CSU SYSTEM
COLORADO STATE UNIVERSITY



The Board of Governors
of the Colorado State University System
Meeting Date: October 5-6, 2023
Action Item

MATTER FOR ACTION:

Approval of revised Colorado State University System Board of Governors Policy 310.

RECOMMENDED ACTION:

MOVED, that the Board of Governors of the Colorado State University System hereby approves the following revised Board Policy:

- Policy 310: Sabbatical Leave Policy

EXPLANATION: Presented by Jason L. Johnson, General Counsel, Colorado State University System, and Dr. Tony Frank, Chancellor, Colorado State University System.

From time to time and in accordance with best practices, the Board of Governors updates or amends its Policy and Procedures Manual. The modification to Policy 310 is needed in light of a recent change to Colorado law regarding sabbatical leave, which requires the Board to have a policy about granting staff members sabbatical leave, in addition to well established faculty sabbatical leave. As set forth in the updated policy, the Board does not grant staff sabbatical leave, as the statutory grounds for granting sabbatical leave – adding value to System institutions and benefitting the education of our students and the State of Colorado – are not satisfied at this time.

Upon approval of the aforementioned new policy, the Policy and Procedures Manual will be amended accordingly.

Approved

Denied

Board Secretary

Date

COLORADO STATE UNIVERSITY SYSTEM

Policy and Procedures Manual

SUBJECT: ACADEMIC AFFAIRS

Policy 310: CSUS Board Sabbatical Leave Policy

Board Policy

To assist in recruiting and retaining qualified faculty members for the CSUS, and also to provide professional development opportunities to allow dedicated faculty members to enhance their skills, understandings, intellectual accomplishments, and expertise, the Board authorizes the campus Presidents to implement Sabbatical Leave Programs approved by the Board consistent with C.R.S. § 23-5-123.

Procedures:

1. Each CSUS campus shall develop a written Faculty Sabbatical Leave Policy -- with procedures providing for peer, administrative, Provost, and Presidential review and approval of Leaves -- to the Academic Affairs Committee pending final Board approval. The Board approves any such policies and revisions thereto.
2. Only members of the academic faculty, exempt from the State Classified System, qualify for consideration for faculty sabbatical leave with a lapse of at least six (6) years after 1) initial appointment or 2) the completion of the applicant's most recent sabbatical.
3. All approved faculty sabbatical leaves must include certification by the Provost of the results of a competitive review process.
4. Presidents submit the approved awards for the coming year to the Academic Affairs Committee for report to the Board during an annual meeting, typically in December.
5. The Presidents submit to the Academic Affairs Committee summaries of the reports of all sabbatical leaves completed during the prior year for report to the Board during an annual meeting, typically in December.
6. The General Assembly has authorized the Board to grant sabbatical leave for staff members (defined as an employee who serves in a management position or similar capacity, including a director and up to a vice president) and that such sabbatical should only be granted when it results in adding value to the institution, the students' education, and the state. The Board acknowledges the difference between well-established faculty sabbatical leave and staff sabbatical leave, and that staff are responsible for supporting the educational environment and the operations of the institutions. At this time, the Board has determined that granting staff sabbatical leave would not add value to the System Institutions, our students' education, or the State of Colorado. Accordingly, it is the Board's policy that it

Policy 310: CSUS Board Sabbatical Leave Policy

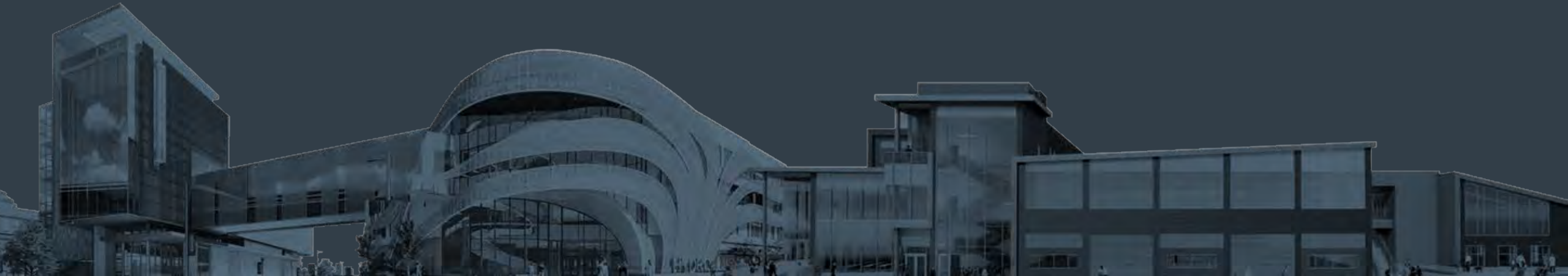
does not grant staff sabbatical leave, as the statutory grounds for granting such leave – adding value to the System Institutions, the education of System students, and the State of Colorado – have not been satisfied at this time.

7. The Chancellor and the Presidents retain copies of approved leaves and reports on file for public inspection upon request.

History: Policy and Procedures Manual effective October 4, 2013, by Board Resolution;
Previous approval for sabbatical and other leaves delegated to the President by Board Resolution on August 3, 2012;
Amended by Board Resolution on October 5, 2023.



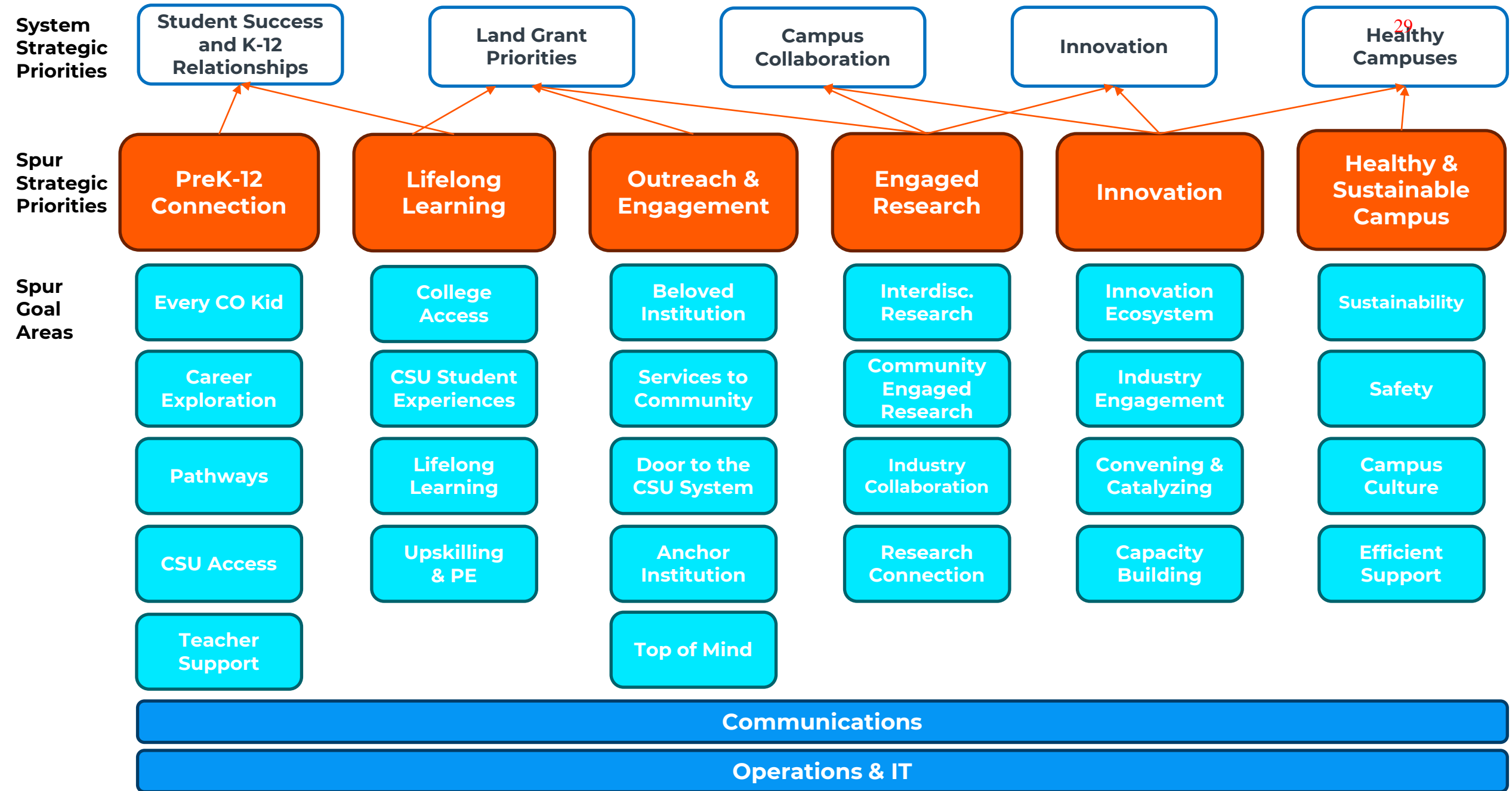
CSU SPUR
Board of Governors
October 2023



General Update

- Highlights:
 - College Track Partnership launched
 - Strategic Planning and Metrics
 - Spur Expo in Fort Collins
- What's coming:
 - CSU Pueblo Programming
 - Stock Show: CSU Spur Anniversary and CSU Day
 - Internal Audit
 - Expanding middle and high school programs
 - Innovation Ecosystem focus

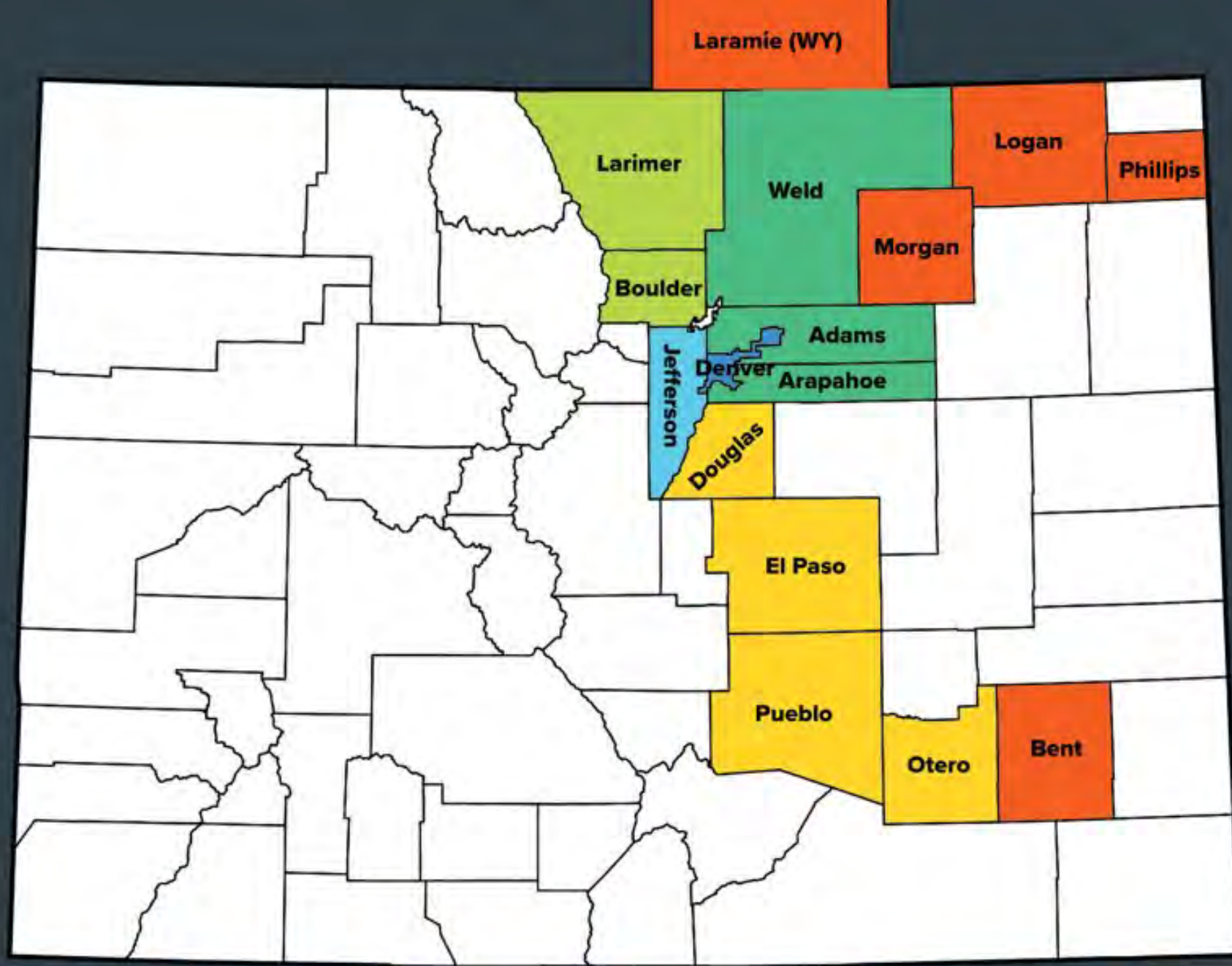




Education Highlights

- Highlights:
 - PBL Workshop for Denver Teachers
 - 16 Counties in 2022-2023 School Year
 - 480+ Campers for CSU Summer Programs
 - First Trout in the Classroom Fish Release
 - 6 Summer DPS High School Interns
 - Hosted CO Alliance for Environmental Education Teacher Conference
 - Booked for Fall Field Trips
 - Current Stats:
 - Over 9,800 PreK-12 visitors
 - Over 70,000 visitors
- What's coming:
 - Water Science Education Coordinator
 - RFP for New Exhibits
 - Planning for NWSS 2024
 - Planning for Summer 2024





Events Highlights

- Recent Highlights:
 - Climate Democracy Initiative Conference
 - CO Agrivoltaics Symposium
 - World Trade Center Annual Meeting
 - Pizza and Movie Night
- What's coming:
 - Camille Dungy, Author of *Soil: The Story of a Black Mother's Garden*
 - Salazar Center Symposium on North American Conservation
 - Latin Fashion Week
 - Hispanic Top Chef
 - Global Forum for Rural Advisory Services
 - Girl Scout Day
 - Water in the West Symposium

	Events	Guests
Jan	29	1855
Feb	44	1395
Mar	38	1702
April	58	2833
May	51	2424
June	41	2032
July	45	1856
Aug	45	1998



Anchor Institution & Community Engagement

- Highlights:
 - Fall BioBlitz
 - Youth Action Team
 - August and September 2nd Saturdays
 - Produce from this summer—350lbs
- What's next:
 - October 2nd Saturday
 - Colorado Food Showcase
 - Solar Eclipse viewing
 - October 7th Camille Dungy Author Talk with Denver Public Library
 - Hiring Outreach Coordinator



Communications + Social

- Recent highlights
 - Audience-specific entry points on the Spur website
 - Recent media hits include Denver Post + 9News
 - New comprehensive "What is CSU Spur? This Is!" Video on YouTube, sharing all the components of Spur
- By the numbers
 - Instagram + Facebook gained 30% June-September
- What's ahead?
 - Updated signage plan on the campus
 - Preparing advertising campaign for early 2024



Innovation at CSU Spur

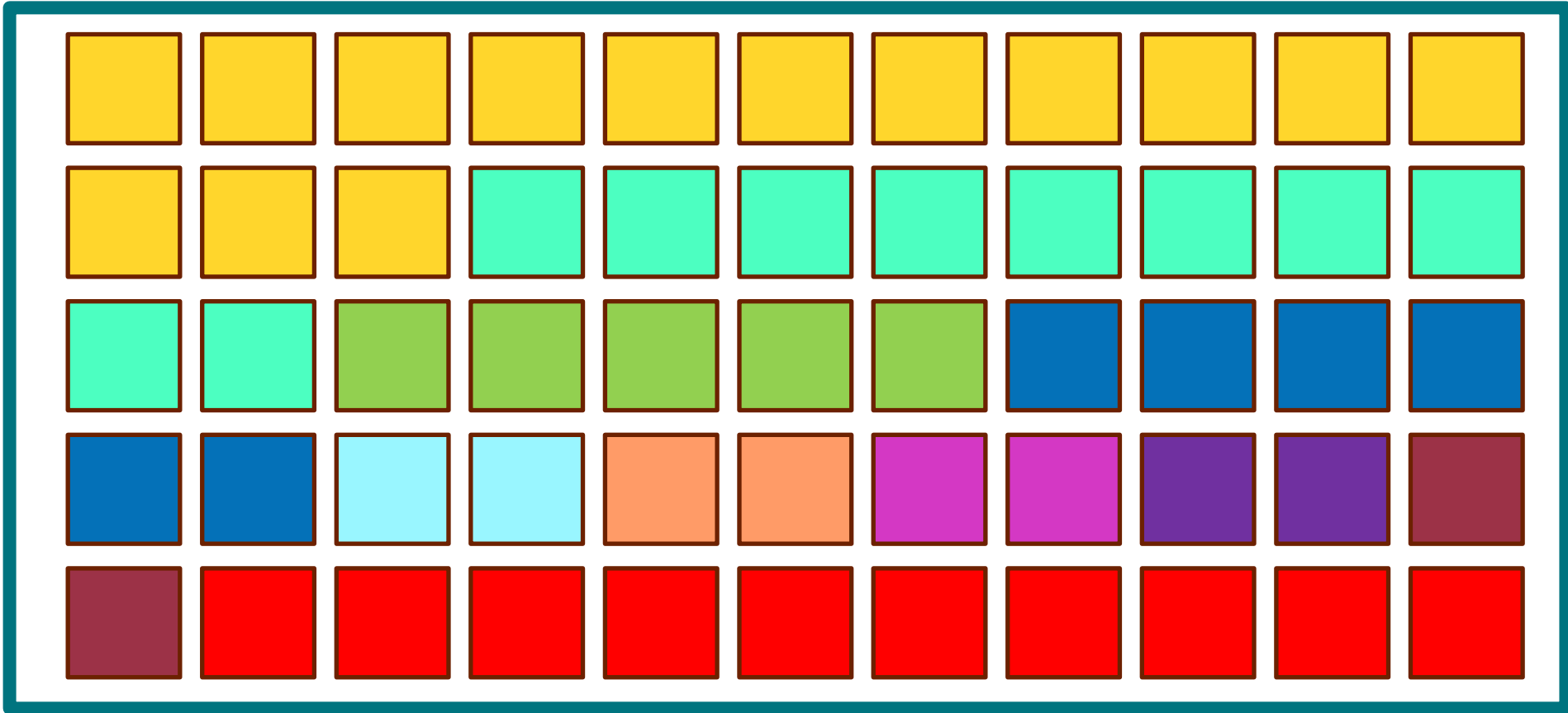
- Highlights:
 - Denver Startup Week
 - AEMS Corp
 - Launch of Innovation ecosystem
 - Research collaboration with City and Mile High Flood District
- What's Next:
 - Continued connection across disciplines
 - Additional industry tenants with research partnerships



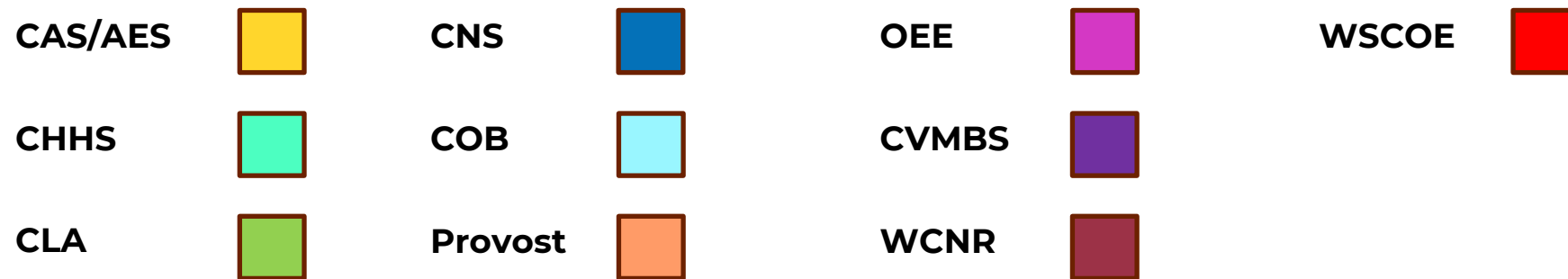
CSU Spur Programs

- Highlights:
 - Spur Taste Buds program running
 - Welcomed AEMS Corp to Spur as corporate partner of Ag Innovation Center
 - Welcoming new programs from across Divisions/Units
- What's next:
 - PSM in Biomanufacturing & Biotechnology coming soon
 - Kendall-Reagan Nutrition Center to offer counselling at CSU Spur
 - Spur Program Café launching October 12 (connecting project teams across academic disciplines)





55 CSU Projects at Spur!



Denver Walls Mural



Installed September 26-29, 2023
Sponsored by Canvas Credit Union

THIS IS CSU SPUR



Thank you. Questions?



Section 4

Audit and Finance Committee

**BOARD OF GOVERNORS OF THE
COLORADO STATE UNIVERSITY SYSTEM
AUDIT and FINANCE COMMITTEE MEETING AGENDA
October 2023**

Audit Committee

1. FY 2023 Year in Review
2. Internal Auditing Dashboard and Status of FY 2023-2024 Audit Plan
3. Review of Audit Reports Issued
4. Past Due Audit Recommendations

Finance Committee

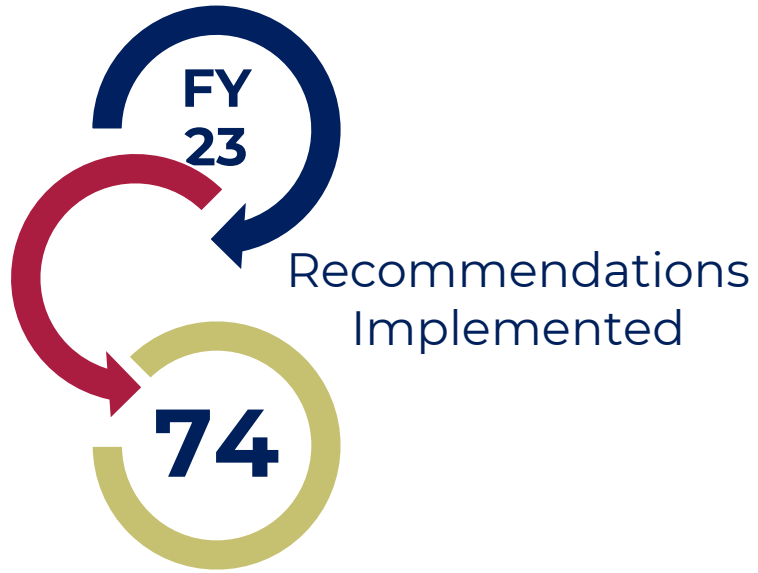
5. State Budget Update
6. Campus Budget with Enrollment Update and Tuition Discussion – FY24 and FY25
7. Approval of Student Course Fees at CSU-Pueblo
8. Approval of Student Fee Policies at CSU and CSU-Pueblo
9. Approval of Amendment to 2-Year Cash Funds List
10. Approval of Plan of Finance Allison Hall Addition and Renovation
11. Treasury Update

Internal Audit Update

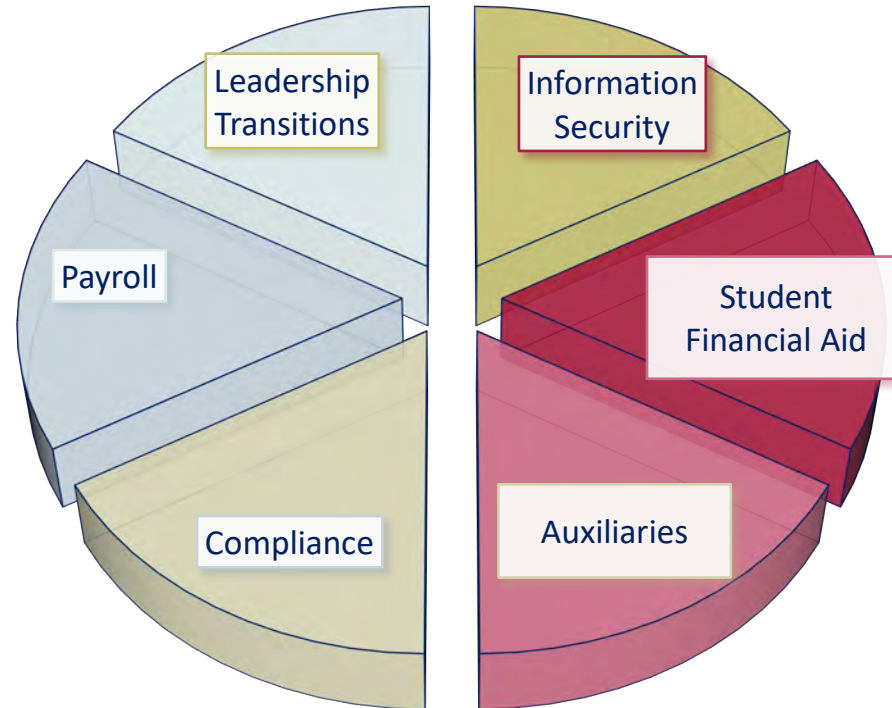




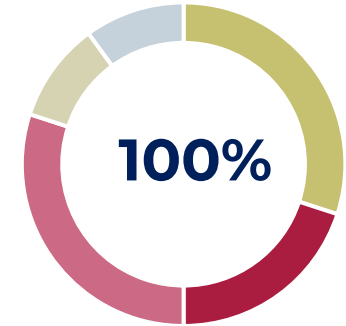
FY23 REVIEW:



KEY RISK AREAS



Staff Certifications within four years of hire:

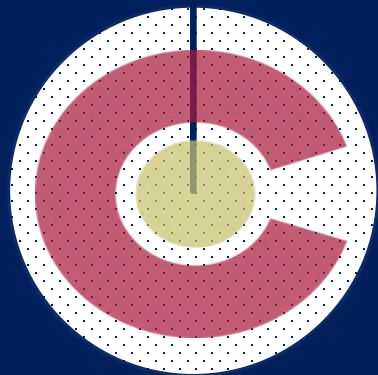


■ CIA ■ CPA ■ CFE ■ CISSP ■ CISA

AUDIT PLAN PROJECTS INITIATED:

Target: 100% Initiated

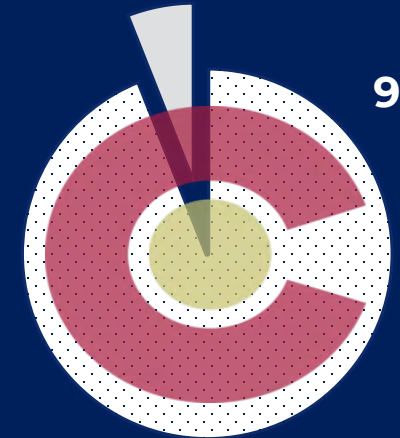
100%



AUDIT PLAN COMPLETED:

Target: 70% Completed

94%



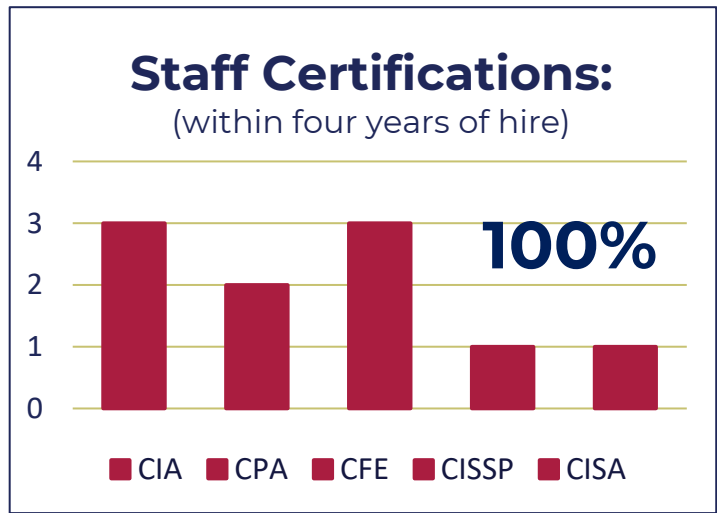


Key Risks Addressed in Audit Plan

- Leadership Turnover
- Enterprise Systems
- Cybersecurity
- Payroll
- Sponsored Programs
- Campus Safety
- CSU Spur
- Title IX
- Todos Santos
- Student Fees
- Accounts Payable
- Finance & Administration (Select Areas)



Recommendations Implemented:





STATUS OF FISCAL YEAR 2024 AUDIT PLAN

Reports Issued		
Institution	Audit Area	Status
CSUP	Athletics Compliance Audit	Report 23-14
CSU	CEMML Special Project	Report 24-01
CSUG	Payroll Audit	Report 24-02
CSU	Student Athlete Financial Aid	Report 24-03
CSU	CEMML Special Project Internal Controls	Report 24-04
CSUP	Auxiliary Services	Report 24-05
CSU	Housing Management System Consultation	Report 24-06
CSU	Attorney Client Privileged Institutional Biosafety Audit	Report 24-07

Audits in Progress							
Institution	Audit Area	Timeline					
		Jul	Aug	Sept	Oct	Nov	Dec
CSU, CSUP	Todos Santos Audit		Fieldwork	Fieldwork	Fieldwork	Reporting	
CSU SPUR	Financial & Administrative Audit		Fieldwork	Fieldwork	Fieldwork	Fieldwork	Reporting
CSU	Colorado State Forest Service Audit		Fieldwork	Fieldwork	Fieldwork	Fieldwork	Reporting
CSU, CSUP	Data Incident Resilience and Recovery Audit		Fieldwork	Fieldwork	Fieldwork	Fieldwork	Reporting
CSU	Payroll Audit			Fieldwork	Fieldwork	Fieldwork	Fieldwork
CSU	Effort Reporting - *New*			Fieldwork	Fieldwork	Fieldwork	Fieldwork
CSU	Continuous Auditing – Financial Fraud Risk Devel.	Ongoing					
CSU, CSUP	Continuous Auditing – Ongoing Evaluation	Ongoing					
ALL	Hotline Report Follow-up/Investigations	Ongoing					
ALL	Audit Follow-up	Ongoing					

Remaining Audits							
Institution	Audit Area	Timeline					
		Jul	Aug	Sept	Oct	Nov	Dec
CSUP	Accounts Payable Audit					Fieldwork	Fieldwork
ALL	Campus Safety Risk Management Review						Fieldwork
CSU	PCI Compliance Audit						Fieldwork
CSUG	Presidential Transition Audit						Fieldwork
CSUP	Student Fees Audit						
CSU	Vice President of Research Transition Audit						
ALL	FY25 Risk Assessment						
CSU	Account Management & Deprovisioning Audit						
CSU	Athletics Audit						
CSUP	Title IX Controls Audit						
CSU	College of Natural Sciences Audit	Deferred to FY2025					

Timeline Adjusted Due to Special Project
 Planning
 Fieldwork
 Reporting



Executive Summary

Report

23-14 CSU Pueblo Athletics Compliance Audit
 June 26, 2023

Background and Scope

The Colorado State University Pueblo (CSU Pueblo) Athletics Department (Athletics) has a total of 21 Division II National Collegiate Athletics Association (NCAA) teams. CSU Pueblo Athletics “is committed to developing champions through academic excellence, athletic achievement and community engagement with the ultimate goal of building productive citizens.” The teams have collectively won multiple conference championships, seven regional tournament championships, and two national championships, including the 2014 NCAA Division II Football National Championship. The audit covered financial and operational activities for the period July 1, 2021, through December 31, 2022.

Objectives and Conclusions

Objectives:	Conclusions:
1. Evaluate internal controls over business administrative processes.	We found that the internal control environment over business administrative processes related to ticketing and human resources is generally adequate. However, in team travel we found the control environment is not effective and not generally adequate.
2. Evaluate internal controls over and compliance with select NCAA Division II regulations	We noted compliance with NCAA Division II regulations in the areas of Name, Image, Likeness (NIL) and initial/transfer eligibility is generally adequate.

Audit Observations and Risk Level

Issue/Opportunity:	Risk and Impact:	Risk Level:	Mgt. Response:
1) All team travel expenses reviewed contained exceptions. Creating a standard format for documentation for team travel would help ensure all documentation is complete.	Inaccurate or missing documentation submitted into KFS creates financial risk to the university	High	Agree. The Athletics Business Manager will request a sample of the athletic workbook from Colorado State University for review. In consultation with the Vice President for Athletics and Strategic Partnerships, the Athletics Business Manager will develop a similar process for CSU Pueblo Athletics. CSU Pueblo Athletics will introduce the “new” workbook to all coaches and staff in August 2023, before the start of the new academic year. During the fall, coaches and staff will be trained in any new processes implemented. Target date of completion: August 31, 2023
2) Current policies relating to travel expenses incurred by	Conflicting policies	Medium	Agree.



<p>multiple coaches on a single are in conflict with each other. Clarifying a process would help ensure all travel expenses are entered accurately.</p>	<p>create confusion for staff and possible financial risk to the university.</p>		<p>The Procurement Department will collaborate with the Vice President for Athletics and Strategic Partnerships to clarify and update the conflicting policies in regard to team travel with multiple coaches.</p> <p>Target date of completion: August 31, 2023</p>
<p>3) Cash per diem disbursement documentation was incomplete. Creating a policy for cash per diem disbursement for team travel would help ensure all documentation is complete.</p>	<p>Inaccurate or missing documentation as it relates to cash per diem, creates financial risk to the university</p>	<p>Medium</p>	<p>Agree. The Athletics Business Manager and Vice President for Athletics and Strategic Partnerships will review the sample of the CSU workbook to find a supporting model. After our review, we will develop a Per Diem Policy and Per Diem Disbursement Form that is consistent for all sports.</p> <p>Target date of completion: August 31, 2023</p>
<p>4) Deposits for ticket sales are not recorded properly. Revenues, credit card convenience fees and parking should be broken out on the deposits and accounted for in the proper object codes.</p>	<p>Improper accounting of revenue and fees can cause incorrect reporting for parking and ticket revenue.</p>	<p>Medium</p>	<p>Agree. CSU Pueblo Athletics will update its procedures for recording convenience fees and parking passes.</p> <p>Target date of completion: July 14, 2023</p>
<p>5) Current ticket reconciliation process is not fully executed and does not have proper segregation of duties. The reconciliation should be between Quali Financial System (KFS) and Audience Viewer (ticket system) and have proper segregation of duties.</p>	<p>Potential errors in ticket recording. Fraud in the ticketing process could go unnoticed.</p>	<p>Medium</p>	<p>Agree. CSU Pueblo Athletics will incorporate this reconciliation procedure in the revised Ticket Sales Reconciliation Procedures.</p> <p>Target date of completion: July 14, 2023</p>
<p>6) The NCAA and CSU Pueblo Athletic Department policy</p>	<p>Misuse of complimentary tickets</p>	<p>High</p>	<p>Agree. CSU Pueblo Athletics will create a complimentary tickets policy for</p>



<p>and reconciliation for complimentary tickets only covers those for student-athletes. Policy and reconciliation for corporate sponsors and pack club members does not exist.</p>	<p>could occur and there would be no way to detect it. This can result in an NCAA violation or fraudulent activity.</p>		<p>corporate sponsors and Pack Club members. CSU Pueblo athletic administration will be trained on the policy. Coaches are never a part of this process.</p> <p>Target date of completion: July 14, 2023</p>
<p>7) Conflict of Interest Disclosures are required for all employees at CSU Pueblo either when a conflict arises or at least annually. Fifty percent of employees tested had no current COI on file.</p>	<p>If a COI is not properly disclosed, it could lead to legal or financial risk for CSU Pueblo.</p>	Medium	<p>Agree. The Vice President for Athletics and Strategic Partnerships will ensure that all staff have completed the Conflict of Interest (COI) disclosure by the beginning of each academic year. At the annual Athletics All-Staff Meeting in August, this will be required of all staff.</p> <p>Target date of completion: August 31, 2023</p>
<p>8) I-9 forms are required by federal law for employment verification and authorization. CSU Pueblo HR department also has a current policy and procedure in place for the I-9 completion, however, not all departments are complying with the policy. There was one instance during testing where the employee did not have an I-9 on file until 1.5 months after their hire date.</p>	<p>If employees are not in compliance with federal law and CSU Pueblo HR policy, it can lead to legal liability for the university.</p>	High	<p>Agree. The Vice President for Athletics and Strategic Partnerships will work with HR to ensure that all I-9 paperwork is complete before start date of employment. In order to ensure paperwork is submitted, the Vice President and Internal Operations Manager will track start dates on job offer letters and confer with Human Resources that all I-9 information is submitted. The employee will not be permitted to work until the employee is cleared by Human Resources.</p> <p>Target date of completion: July 1, 2023</p>

Risk Rating	Risk Definition
Critical	Critical priority - severe impact to the reputation of the institution or achievement of its goals and objectives is highly likely. Urgent action should be taken.
High	High priority - high likelihood and/or considerable negative impact to institutional or unit goals and objectives. Timely action should be taken.
Medium	Medium priority - moderate impact and/or likelihood to unit goals and objectives. Action should be taken.
Low	Low priority - minimal adverse impact and/or minimal likelihood of impact to unit goals and objectives. Action should be taken as resources permit.



Executive Summary

Report

24-02 CSU Global Payroll Audit
July 19, 2023

Background and Scope

As of May 26, 2023, CSU Global has 718 employees, which consist of 184 full-time salaried employees, 27 part-time hourly employees, and 507 part-time faculty. For fiscal year 2022, CSU Global Payroll salary, wages, and benefits totaled approximately \$29 million. CSU Global outsourced the administration of the payroll function to a third-party payroll service provider until January 2022. CSU Global Payroll utilizes the Ultimate Kronos Group (UKG), a global human capital management system for managing human resources, payroll, time, and attendance, as well as payroll tax filing and payment.

The audit covered the CSU Global Payroll for the period of July 1, 2021, through December 31, 2022.

Objectives and Conclusions

Objectives:	Conclusions:
1. Determine the adequacy of internal controls over payroll.	Internal controls over the payroll process were generally adequate. We identified opportunities for internal control improvements.
2. Determine the accuracy, timeliness, and completeness of payroll disbursements and recording.	Internal controls over payroll recording were inadequate. We identified controls weaknesses in payroll documentation, payroll recording, payroll reconciliation and remittances for taxes, benefits, and retirements.
3. Determine if payroll disbursements for terminations are properly processed.	Internal controls over the employee termination process were adequate. We identified opportunities to improve controls over terminated employees' final payment.
4. Determine compliance with state and federal leave regulations and policies.	The review of payroll transactions that are susceptible to improprieties did not disclose payroll fraud during the test period July 1, 2021, through December 31, 2022.
5. Assess the risk for payroll fraud.	Internal controls over non-standard payroll transactions including off-cycle payroll pay, retroactive pay, employees' paychecks with no income tax withheld and employees who also received Form 1099 who for independent contractor payments were adequate. We identified the opportunities to improve internal controls.
6. Assess general information security risk to payroll data.	Internal controls over payroll data security is adequate. We identified opportunities to improve payroll data security controls.



Audit Observations and Risk Level			
Issue/Opportunity:	Risk and Impact:	Risk Level:	Mgt. Response:
1) Review of the existing CSU Global Payroll Policies and Procedures disclosed that some policies and procedures have not been established or updated.	The lack of a formal payroll policy outlining payroll procedures covering all aspects of payroll activities could increase the risk of fraud and inaccuracies in payroll.	High	Agree: CSU Global will review and update as necessary the Payroll Policy and Procedures. Target date of completion: August 31, 2023
2) The review of 25 randomly selected samples of exempt and non-exempt employee information in the Payroll Register dated December 2022 disclosed missing supporting documentation.	Inability to maintain relevant supporting documentation for payroll transactions could result in penalties and fines. Lack of supervisory approval creates the opportunity for payroll mistakes to go unnoticed and hence, lead to fraudulent activities.	High	Agree. CSU Global will incorporate a quality check of employee data, approval of hours, pay rates, tax withholdings and other relevant data points to minimize payroll errors. CSU Global will also develop a quarterly report to ensure work location aligns with state and local taxes. Target date of completion: August 31, 2023.
3) There were several discrepancies in the payroll and payroll-related accounts balances reported in the journal entries and the General Ledger Details by Account # report, received from UKG, which is the basis for recording payroll transactions in the general ledger.	Failure to review the accuracy and completeness of payroll and payroll-related balances in the general ledger at month-end could result in misstatement of payroll expenditures.	High	Agree: Processes are currently in practice to ensure the payroll balance in the general ledger is reviewed on a monthly basis as of March 2023. Target date of completion: Implemented
4) The method of account reconciliation does not provide assurance with respect to the accuracy and completeness of the accrued payroll balance in the general ledger.	Failure to reconcile accrued payroll liabilities recorded in the general ledger to the corresponding balances detailed in UKG reports at month-end could result in inaccurate balances in the general ledger.	High	Agree. Processes are currently in practice to ensure accrued payroll liabilities are recorded in the general ledger and reconciled to month-end UKG reports. Target date of completion: Implemented
5) There were discrepancies between the payroll tax liability amounts recorded in the general ledger and the corresponding amounts	Failure to reconcile tax liabilities recorded in the general ledger to the corresponding balances	High	Agree. CSU Global management will implement procedures for reconciling accrued payroll tax liabilities to the quarterly UKG



<p>reported and paid in the Quarterly Variance report for June 2022 and December 2022.</p>	<p>detailed in UKG quarterly tax reports could result in inaccurate balances in the general ledger and the financial statements.</p>		<p>reports. Target date of completion: October 31, 2023</p>
<p>6) The review of the accuracy and timeliness of the benefits and retirement deposits remittances for the months of September 2021, October 2021, and December 2022 for 10 samples disclosed discrepancies.</p>	<p>Failure to reconcile the accrued benefits and retirement account reconciliation at month-end could result in inaccurate balances in the general ledger and financial statements.</p>	<p>High</p>	<p>Agree. CSU Global management will implement procedures for reconciling accrued payroll benefits and retirement account reconciliation. Target date of completion: August 31, 2023</p>
<p>7) The pre-check of the payroll report for each pay period is performed before final payroll processing; however, the reviewers do not specify the type of the review performed, i.e., comparison of the current pay period to the previous pay period for reasonableness and evidence of follow-up on any issues noted by the reviewer.</p>	<p>Lack of a well-documented payroll in-depth review detailing review steps, comments, and follow-up actions could result in inaccuracies in payroll.</p>	<p>High</p>	<p>Agree. Current procedures have been established to ensure proper documentation is received, reviewed, and retained. Target date of completion: Implemented</p>
<p>8) Out of a sample of 25 terminated employees, one employee, who resigned voluntarily effective March 25, 2022, did not receive their final paycheck of \$1,790 on the next scheduled pay period.</p>	<p>Some state laws require employers to pay employees their final paycheck immediately upon employment termination. Non-compliance with applicable state laws could result in penalties and fines.</p>	<p>Medium</p>	<p>Agree. Current procedures have been established to ensure proper documentation is received, reviewed, and retained. Target date of completion: Implemented</p>
<p>9) The review of a sample of 30 employees from the non-standard payroll testing disclosed missing supporting documentation.</p>	<p>Lack of a spot check over employee information in the payroll register creates the opportunity for payroll mistakes to go unnoticed and could lead to fraudulent activities. In addition, missing relevant supporting documentation could result in penalties and fines.</p>	<p>High</p>	<p>Agree. These non-standard payroll payments were completed for employees in 2021, and prior to payroll being processed in-house. Current procedures have been established to ensure proper documentation is received, reviewed, and retained. Target date of completion: Implemented</p>
<p>10) Currently, five out of the 17 current users with access roles and</p>	<p>Failure to limit the use of Super Admin rights could</p>	<p>High</p>	<p>Agree. CSU Global values the principles of least privilege,</p>



<p>rights to UKG had the Super Admin access. The granting of the Super Admin user access to these employees does not warrant a prudent business justification.</p>	<p>result in the compromise of confidential payroll data.</p>		<p>need-to-know and separation of duties, and the critical importance of protecting confidential payroll data. As such CSU Global has reviewed employees with super admin access and believe the access is appropriate for their functions. Additionally, CSU Global has established a process to audit on a semi-annual basis, those with Super Admin access to ensure compatibility with role and job description and will work with UKG to explore appropriate alternative solutions to limit super admin access.</p> <p>Target date of completion: October 1, 2023</p>
<p>11) A User Access Review, which involves reviewing access rights for all CSU Global employees and third-parties to UKG, was not performed.</p>	<p>Failure to conduct user access review to ensure only authorized employees have access to UKG could result in privilege creep, inappropriate or unauthorized access, and access abuse.</p>	Medium	<p>Agree. Current procedures have been established to ensure proper documentation is received, reviewed, and retained.</p> <p>Target date of completion: October 1, 2023</p>
<p>12) The UKG SOC 1 Type II report for the period October 1, 2021, to September 30, 2022, was not reviewed by CSU Global Payroll.</p>	<p>Failure to review the SOC 1 Type II from UKG could expose CSU Global to an inadequate control environment and regulatory risk.</p>	Medium	<p>Agree: CSU Global will establish a process to ensure proper review of reports on a semi-annual basis.</p> <p>Target date of completion: July 31, 2023</p>

Risk Rating	Risk Definition
Critical	Critical priority - severe impact to the reputation of the institution or achievement of its goals and objectives is highly likely. Urgent action should be taken.
High	High priority - high likelihood and/or considerable negative impact to institutional or unit goals and objectives. Timely action should be taken.
Medium	Medium priority - moderate impact and/or likelihood to unit goals and objectives. Action should be taken.
Low	Low priority - minimal adverse impact and/or minimal likelihood of impact to unit goals and objectives. Action should be taken as resources permit.



Executive Summary

Report

24-03 CSU Student Athlete Financial Aid Audit
July 31, 2023

Background and Scope

Approximately \$4.6 million in financial aid is distributed each semester to the nearly 400 student-athletes at Colorado State University (CSU), through a mix of full and partial scholarships. Federal rules for administering such aid are complex, and state that financial aid awards for student-athletes cannot exceed the Cost of Attendance (COA).

The audit testing included re-performance by using an IDEA programming script to examine all of the student ledger records for the Spring and Fall semesters during 2022, instead of only examining a sample of student accounts.

Objectives and Conclusions

Objectives:	Conclusions:
1. Determine if grant-in-aid awards made to student-athletes at CSU appear to exceed the COA.	Internal controls were adequate for the audited area, except for controls over cutoff over financial aid records from prior semesters. Improved monitoring procedures have been put into place since similar internal audit reviews in prior years.
2. Determine if student-athlete financial aid is being disbursed only for student-athletes currently on the roster and in accordance with grant-in-aid documentation.	Evidence of generally adequate controls to ensure grant-in-aid is disbursed correctly to student-athletes was observed. Email correspondence between OFA and the Athletics Office confirms that reports are periodically generated and reviewed.

Audit Observations and Risk Level

Issue/Opportunity:	Risk and Impact:	Risk Level:	Mgt. Response:
1) Adjustments to student account records and balances are being made in subsequent semesters and occur after the OFA has reviewed the student accounts for potential over-awards.	Late entries can result in the COA being exceeded after OFA's review has been completed, resulting in an out-of-compliance situation.	Medium	<p>Agree. The Director of Financial Aid will collaborate with other units as needed, including but not limited to, Business & Financial Services, to devise a mechanism to prevent late adjustments to the student account for a past semester. If preventing late adjustments is not an option, the Director will work with those units to determine a process to manage those adjustments.</p> <p>Target date of completion: September 30, 2023</p>



Risk Rating	Risk Definition
Critical	Critical priority - severe impact to the reputation of the institution or achievement of its goals and objectives is highly likely. Urgent action should be taken.
High	High priority - high likelihood and/or considerable negative impact to institutional or unit goals and objectives. Timely action should be taken.
Medium	Medium priority - moderate impact and/or likelihood to unit goals and objectives. Action should be taken.
Low	Low priority - minimal adverse impact and/or minimal likelihood of impact to unit goals and objectives. Action should be taken as resources permit.



Executive Summary

Report

24-04 CSU Center for Environmental Management of Military Lands Special Project
August 7, 2023

Background and Scope

Center for Environmental Management of Military Lands (CEMML) is part of the Warner College of Natural Resources (WCNR) at Colorado State University (CSU) and has supported military readiness and resource conservation on federal lands for nearly four decades. In April 2023, Internal Auditing followed up on concerns related to potential vehicle and Procurement Card (PCard) misuse, and that report was provided to the Office of General Counsel.

We reviewed select PCard charges from November 2020 through May 2023 and certain vehicle-specific fuel cards (WEX cards) from December 2021 through May 2023.

Objectives and Conclusions

Objectives:

1) Identify opportunities for internal control improvements to mitigate the risk of vehicle and PCard misuse within CEMML.

Conclusions:

We noted several opportunities to improve internal controls and help mitigate risk related to PCard and WEX card charges.

Audit Observations and Risk Level

Issue/Opportunity:

1) CEMML does not currently have a mechanism to flag unusual PCard purchases (such as non-workday transactions) for further review. Communicate to all CEMML PCard approvers and Principal Investigators (PI) the importance of flagging non-workday transactions and develop a process to help identify such transactions.

Risk and Impact:

Identifying unusual transactions for additional review could assist in identifying potential issues or fraudulent purchases.

Risk Level:

High

Mgt. Response:

Agree. Information has been sent to the CEMML PI/Approvers. It is also posted in the WCNR Procedure manual and on CEMML's internal operations page.

Target date of completion:
Implemented

2) CEMML-leased vehicles do not have mileage logs. Consider the use of mileage logs in CEMML leased vehicles.

Keeping a mileage log can assist in tracking miles driven and provide a basis of data to supervisors to review for reasonableness and potential benchmarking.

Medium

Agree. The Assistant to the Dean for Finance is working with college IT staff on developing a system for mileage tracking.

Target date of completion:
November 1, 2023.



<p>3) Not all WEX card charges were near base and during working hours. Develop a process for additional monitoring of WEX card charges.</p>	<p>Additional monitoring could assist in identifying potential issues or fraudulent charges.</p>	<p>High</p>	<p>Agree. New process for monitoring of WEX cards has been implemented.</p> <p>Target date of completion: Implemented</p>
--	--	--------------------	---

Risk Rating	Risk Definition
Critical	Critical priority - severe impact to the reputation of the institution or achievement of its goals and objectives is highly likely. Urgent action should be taken.
High	High priority - high likelihood and/or considerable negative impact to institutional or unit goals and objectives. Timely action should be taken.
Medium	Medium priority - moderate impact and/or likelihood to unit goals and objectives. Action should be taken.
Low	Low priority - minimal adverse impact and/or minimal likelihood of impact to unit goals and objectives. Action should be taken as resources permit.



Executive Summary

Report

24-05 CSU Pueblo Auxiliary Services Audit
August 21, 2023

Background and Scope

Auxiliary Services at Colorado State University (CSU) Pueblo plays a vital role in providing support services to enhance student success and the overall campus experience. Due to the importance of this revenue-generating department, Internal Auditing initiated an assurance audit of Auxiliary Services.

Objectives and Conclusions

Objectives:

1. Evaluate internal controls over select business practices within Auxiliary Services.

Conclusions:

We noted that internal controls over the business practices reviewed were generally adequate.

2. Evaluate internal controls over cash/check collections for events hosted at CSU Pueblo.

We noted that internal controls over cash/check collections relating to events were generally adequate.

Audit Observations and Risk Level

Issue/Opportunity:	Risk and Impact:	Risk Level:	Mgt. Response:
<p>1 & 2) Thirty-one of 76 Purchasing Card (PCard) transactions tested were found to have exceptions.</p>	<p>Non-compliance with PCard policies could result in loss of PCard privileges for cardholders and creates a financial risk to the university.</p>	<p>Medium</p>	<p>The Vice President of University Operations or their delegate will work with all Auxiliary Services PCard holders to ensure the missing or incomplete receipts are attached to the respective KFS documents.</p> <p>Target date of completion: December 15, 2023</p> <p>The Chief Financial Officer (CFO) will review if unallowable items and determine if reimbursement is necessary. The CFO will also ensure that Office of Financial Management reviews auto-approved charges and confirms proper allocation to accounts.</p> <p>Target date of completion: December 15, 2023</p>
<p>3) At the time of our review, there were \$208,203.73 in overdue catering invoices that were unpaid</p>	<p>With outstanding invoices such as this, the reputation</p>	<p>Medium</p>	<p>Auxiliary Services will ensure the individual invoices are</p>



<p>due to invoice discrepancies or late payment by Auxiliary Services.</p>	<p>of CSU Pueblo could suffer harm or Aladdin (catering vendor) may choose to no longer service CSU Pueblo due to nonpayment.</p>		<p>correct and paid in a timely manner and request that Aladdin review invoices every Thursday to ensure any applicable changes are completed for accurate invoice before the catering system closes to reduce errors.</p> <p>Target date of completion: December 15, 2023</p>
<p>4) Auxiliary Services does not have proper segregation of duties for completing deposits, and deposits are not always completed in a timely manner, as required by Financial Procedure Instructions (FPI) 6-1.</p>	<p>Currently, the employee collecting the cash and completing the deposits could fraudulently take money from the department and there would be no way to determine cash has been taken.</p>	High	<p>Auxiliary Services staff will complete regular reconciliations between the Event Management System, the cash stored in the vault, and deposits completed in KFS. Auxiliary Services will implement internal protocols to ensure that no single employee is receiving money, storing cash, depositing, and reconciling and that deposits are completed the next business day if more than \$500 was collected.</p> <p>Target date of completion: June 1, 2024</p>
<p>5) Auxiliary Services has no way to fully determine if an event has turned a profit, a loss, or has broken even.</p>	<p>Auxiliary Services has no way to determine if an event is making or losing money</p>	Medium	<p>Auxiliary Services will conduct a costa analysis of the total cost of renting a room, including whether catering and space rental is adequately recovered.</p> <p>Target date of completion: June 1, 2024</p>
<p>6) Rates charged by Auxiliary Services are not consistent from event to event for the same rental space.</p>	<p>Auxiliary Services has continued renting out spaces for different events but has never conducted a proper cost analysis of rooms and has no way to determine if an event is making or losing money.</p>	Medium	<p>The Vice President of University Operations' office updated processes to ensure that only approved partners were provided free or no-cost room rentals. New protocols will be established to ensure discounts are consistently applied. This will include training for campus to ensure no external events are improperly flagged as internal.</p>



			Target date of completion: December 15, 2023
7) Prepayments for events are not being recorded correctly in KFS. Due to the way Banner is set up, these errors will continue to occur.	In some cases, a receivable is booked in Banner, but in others, there is not. In instances where a receivable is not logged into Banner, but payments are posted, this creates a credit balance in Banner for that account. When this happens, a refund could be erroneously sent to those accounts.	High	Auxiliary Services is hiring a new assistant director position who will ensure that deposits are logged into KFS properly and that all accounting inaccuracies from previous are reconciled. We will work with the CSU System Audit team and CSU Pueblo CFO/BFS team to properly identify past errors and correct by the end of the fall semester. Target date of completion: December 15, 2023

Risk Rating	Risk Definition
Critical	Critical priority - severe impact to the reputation of the institution or achievement of its goals and objectives is highly likely. Urgent action should be taken.
High	High priority - high likelihood and/or considerable negative impact to institutional or unit goals and objectives. Timely action should be taken.
Medium	Medium priority - moderate impact and/or likelihood to unit goals and objectives. Action should be taken.
Low	Low priority - minimal adverse impact and/or minimal likelihood of impact to unit goals and objectives. Action should be taken as resources permit.



Executive Summary

Report

24-06 CSU Housing Management System Consultation
September 15, 2023

Background and Scope

Housing and Dining Services (HDS) and University Housing and Technology Services organizations requested an Internal Auditing (IA) consultation related to the implementation of a new housing management application from StarRez. StarRez is a vendor-managed (cloud) solution that provides housing management, online resident self-service, portal, and billing services.

The scope included facilitating an exercise with the University Housing department to assist in assessing risk and to identify a prioritized list of risks to consider for annual service and support planning for the StarRez system and integrations. Initial risk treatment and control priorities were considered to support risk management direction.

Objectives and Observations

Objectives:	Observations:
1. Facilitate a risk assessment related to reliance on the StarRez system resulting in risk mitigation (treatment) priorities for HDS.	The final risk assessment was created collaboratively, with HDS identifying, ranking risks, and selecting risk treatment and control options.
2. Provide an analysis of policy, compliance, and control selection.	The 13 highest rated risks were examined against potential regulatory and university policy requirements to provide additional risk impact support in the assessment exercise. Risk treatment and control selection options, as well as a listing of potentially applicable policy and compliance sources, were included as part of the assessment package.

Key Insights

1. Clarification of leadership and governance responsibilities over management of StarRez may improve an inherently subjective risk assessment process by adding additional objective driven insight.
2. Additional stakeholder exposure to risk assessment outcomes or participation in assessment ranking may remove obstacles, clarify key priorities, identify resource and skill gaps, and highlight strategic outcomes. Regular and consistent risk assessment may improve assessment contributions by recognizing strategic, change, and environmental risk factors in an ongoing, timely, and incremental fashion rather than through occasional heavy lift exercises.
3. Regular vendor control review and assurance exercises will provide increased confidence that the StarRez vendor is effectively contributing to StarRez application risk management.

Summary of Services Provided

Internal Audit provided the following services and products in the execution of the consultation:

1. Facilitated a risk assessment exercise for HDS StarRez system.
2. Interviewed key HDS departments that depend on the StarRez system to determine business objectives and gain system and data dependency insight to aid the assessment process.
3. Provided a final risk assessment document containing risk-ranked priorities with HDS selected risk treatment (mitigate, avoid, transfer, accept) and control (prevent, detect, compensate) selections.



4. Investigated and provided insight into potential compliance and CSU policy requirements related to the highest rated risks identified during the risk assessment.

Deliverables

Deliverable	Date Provided
1) The completed engagement HDS risk assessment document with identified risks, scoring, treatment, and policy/compliance considerations.	July 26, 2023
2) An assortment of supporting presentations on risk assessment and risk management, and a more detailed risk to policy/regulatory mapping workpaper.	Various dates, July 2023



All Overdue Recommendations

Audit #	Audit Name	Report Date	Inst.	Rec. #	Recommendation	Audit Report Response	Dept.	Target Completion Date	Revised Target Completion Date
23-14	CSU Pueblo Athletics Compliance Audit	06/26/2023	CSU P	5	The Athletics Budget Office should create a new reconciliation procedure to tie KFS to the ticket system.	Agree. CSU Pueblo Athletics will incorporate this reconciliation procedure in the revised Ticket Sales Reconciliation Procedures.	Athletics	7/14/2023	09/29/2023
23-14	CSU Pueblo Athletics Compliance Audit	06/26/2023	CSU P	7	The Vice President for Athletics and Strategic Partnerships should ensure all athletic department staff have a COI disclosure on file.	Agree. The Vice President for Athletics and Athletics Strategic Partnerships will ensure that all staff have completed the Conflict of Interest (COI) disclosure by the beginning of each academic year. At the annual Athletics All- Staff Meeting in August, this will be required of all staff.	Athletics	08/31/2023	10/01/2023
23-06	CSU Pueblo Sustainability of High-Risk Recommendations Audit	01/19/2023	CSU P	9	The CFO/Controller should consider updating its procedures so deposits are completed within one business day of receipt unless further research is needed, in which case deposits should be completed within five business days. Additionally, the CFO/Controller should implement a procedure to review/reconcile the clearing account at least once a month.	Agree. The CFO/Controller will update procedures regarding deposits and reconciling the clearing account.	BFS	06/30/2023	10/31/2023



All Overdue Recommendations

Audit #	Audit Name	Report Date	Inst.	Rec. #	Recommendation	Audit Report Response	Dept.	Target Completion Date	Revised Target Completion Date
23-06	CSU Pueblo Sustainability of High-Risk Recommendations Audit	01/19/2023	CSU P	7	The CFO/Controller or designee should review the current overtime payment process to improve accuracy of payments. Additionally, the CFO/Controller should review these instances of unpaid overtime to ensure the students employees are eligible for overtime pay. If they are, the CFO/Controller should work with Payroll to pay those employees the overtime for which they are eligible.	Agree. CFO/Controller, Payroll Staff and Assistant Controller will review and develop controls to improve the accuracy of payments. We will also review instances of unpaid overtime and pay any unpaid wages.	BFS	06/30/2023	02/29/2024
23-06	CSU Pueblo Sustainability of High-Risk Recommendations Audit	01/19/2023	CSU P	1	The Senior Director of Human Resources and Institutional Equity (HRIE) should develop a documented policy or procedure to ensure all employees complete their Conflict of Interest disclosure. This is a repeat issue.	Agree. An outdated COI procedure exists and will be updated to include the three regular employee types: administrative professional, faculty, and classified (not previously included). The procedure will identify due dates for completion, an accountability step on employee performance evaluations, and follow-up steps to ensure compliance with the reporting requirement....	HRIE	07/31/2023	09/30/2023
23-05	CSU Pueblo Summer Camps Special Project	10/24/2022	CSU P	6	The CSU Pueblo President or his delegate should develop a "Minors on Campus" and a "Camps" policy.	Agree. Policy has been developed. In the process of being finalized, policy has been sent to campus for comment and then will represented to Cabinet for FINAL approval.	President's Office	04/01/2023	11/01/2023



All Overdue Recommendations

Audit #	Audit Name	Report Date	Inst.	Rec. #	Recommendation	Audit Report Response	Dept.	Target Completion Date	Revised Target Completion Date
22-15	Attorney Client Privileged CSU Student Accessibility Audit	06/07/2022	CSU	5	Privileged Communication	Privileged Communication	Provost Office, OEO, OIE, ATCR	05/04/2023	03/15/2024
22-14	CSU Conflict of Interest	04/29/2022	CSU	4	The CSU President should ensure the disclosure form is modified to include: <ul style="list-style-type: none"> • Examples of less common conflicts. • ICOI roles. • Questions/statements to aid in process efficiencies. • An effective and efficient method for reporting on international collaborations (discussed in Section 3.3). 	Agree. The COIC Committee is actively working to update the current disclosure form to include various examples of COIs and COCs, ICOI roles, which will facilitate the creation of an ICOI process. The added questions that will also elicit more information to help with determination of a need for a COI/COC management plan by reviewers and updating questions regarding international engagement to be clear to employees the information that needs to be reported.	Office of the President	06/30/2203	10/30/2023
22-13	CSU IT Vendor Management Audit	04/22/2022	CSU	2	The Division of IT Vice President of Information Technology should ensure the IT vendor management system under development includes the elements of an effective internal control system.	Agree. The VP IT will ensure the newly charged campus committee will implement an IT vendor management system that complies with the Supply Chain Risk Management section (ID.SC) of the NIST Cybersecurity Framework, incorporating resources from EDUCAUSE and mapping requirements to CSU information sensitivity ratings.	DoIT	05/31/2023	



All Overdue Recommendations

Audit #	Audit Name	Report Date	Inst.	Rec. #	Recommendation	Audit Report Response	Dept.	Target Completion Date	Revised Target Completion Date
22-12	CSU Sponsored Program Billing and Receivables Audit	04/07/2022	CSU	1	The Director of Sponsored Programs should work with the appropriate individuals to establish and document a revised Sponsored Receivables Policy based on best practices, as agreed upon by key University personnel. The revised policy should address key process areas, including, but not limited to, billing, collections, write-offs, and allowance for doubtful accounts.	Agree. The Director will work with key University personnel to revise the Sponsored Receivables Policy based on best practices. The policy will have processes appended to cover the key areas.	Office of Sponsored Programs	05/31/2023	12/31/2023
22-06	National Science Foundation Cost-of-Education Awards Special Project	08/17/2021	CSU	6	The Senior Associate Vice President for Research should work with the Research Associate Deans, as needed, to facilitate the improvement of grant monitoring controls by establishing guidelines and procedures, including Co-PI oversight, and possibly fiscal staff reviews to ensure accuracy and compliance of grant activities. This would include monitoring controls to ensure accuracy of and compliance with: <ul style="list-style-type: none"> • Fellow enrollment requirements, • Payments of tuition and fees, • Stipend payment requirements, • Reporting requirements. 	Agree. The CSU Office of the Vice President for Research (OVPR) is already planning to increase personnel in OSP as an outcome of the OVPR strategic planning process. However, some factors listed here, such as monitoring enrollments, are not feasible with current staffing levels or IT systems. Training grants have special requirements that are recognized as difficult to manage for every institution. OVPR and the Walter Scott College of Engineering (WSCOPE) suggest assembling a working group to explore ways to support faculty managing training grants.	OVPR and the Walter Scott College of Engineering	01/31/2023	12/31/2023



All Overdue Recommendations

Audit #	Audit Name	Report Date	Inst.	Rec. #	Recommendation	Audit Report Response	Dept.	Target Completion Date	Revised Target Completion Date
21-16	Institutional Research Audit	03/25/2021	CSU P	2	The Information Security Manager at CSU Pueblo should adopt a data security policy.	Agree. Though it is agreed that there is a need for a data security policy, discussions have begun regarding efforts to establish a data security policy that will cover all CSU System member institutions. This is part of a larger work of data governance underway between the Fort Collins and Pueblo campuses because of the Joint Banner Project. The Information Security Manager at CSU-Pueblo will remain engaged in this process to put forward recommendations for a policy and a draft of a policy that will serve the Pueblo campus. Any CSU-Pueblo-specific policy will likely be superseded by the CSU-System policy when implemented. If a CSU-System data security policy is not in place after the implementation of the Joint Banner Project in Fall 2021, a CSU-Pueblo data security policy will be put forward to be made official.	IR	10/31/2021	10/01/2023



All Overdue Recommendations

Audit #	Audit Name	Report Date	Inst.	Rec. #	Recommendation	Audit Report Response	Dept.	Target Completion Date	Revised Target Completion Date
21-11	Controlled Unclassified Information Audit	12/10/2020	CSU	4	The Vice President for Research should ensure that procedures are established so that research projects with CUI requirements and the required CMMC level can be reported at any point in time.	Agree. OSP will create a manual inventory of projects with CUI and CMMC requirements initially. Simultaneously, OSP and Research Services will work together to explore the implementation of adjustments to our Kualu systems to create a flag for projects with these requirements from which we can automate the inventory.	CUI	12/31/2021	12/31/2023
21-10	Supplemental Pay Audit	12/04/2020	CSU	7	The Executive Director of HR should explore options for improving the efficiencies of the supplemental pay process in the short-term and automating the supplemental pay process in the long-term. An automated process should include individual cumulative totals.	Interim actions to improve the online process flow tool will be explored with the CSU IT team with the intention of improving the existing format and enhancing visibility by providing access to more detailed information for the requestor and reviewers. Cumulative totals may be achieved by providing access to reports. Longer term system efficiencies for supplemental pay automation will be explored via the HRIS system upgrade project. A team of IT and HR subject matter experts will launch the upgrade project in 2021, including a process review phase to determine system requirements; this effort is expected to span several years before implementation.	The Provost's Office	12/31/2021	11/30/2023



All Overdue Recommendations

Audit #	Audit Name	Report Date	Inst.	Rec. #	Recommendation	Audit Report Response	Dept.	Target Completion Date	Revised Target Completion Date
21-10	Supplemental Pay Audit	12/04/2020	CSU	6	The Provost should require additional justification for any activities which may not be eligible for supplemental pay, including committee activities.	Agree. Conversations need to be had regarding committee work, particularly with Faculty Council and a consistent policy established for what committee work is considered part of the faculty member's service and what is eligible for supplemental pay. The Provost or her designee will make sure that additional justification for any activities that may not be eligible for supplemental pay, including committee activities are in place prior to approving the request at the Provost's level.	The Provost's Office	12/31/2021	06/30/2023
21-10	Supplemental Pay Audit	12/04/2020	CSU	5	The Provost should either enforce the prior approval rule and ensure that exceptions are well documented or remove it from the policy.	Agree. Given our current climate, individuals are asked to pivot on short notice. We are also aware of several instances where individuals are asked to pick up added responsibilities when an employee leaves on short notice and the replacement is not yet in place. We suggest removing the prior approval rule and replacing it with a statement that supplemental pay must be submitted within a specific number of days of the start of the activity, which will be determined and included in the policy.	The Provost's Office	12/31/2021	06/30/2023



All Overdue Recommendations

Audit #	Audit Name	Report Date	Inst.	Rec. #	Recommendation	Audit Report Response	Dept.	Target Completion Date	Revised Target Completion Date
21-10	Supplemental Pay Audit	12/04/2020	CSU	4	The Provost should update the supplemental pay authorization form to include a supervisory attestation statement that the activity is above and beyond the employee's position description.	Agree. The Provost or her designee will work with IS to include a supervisory attestation statement that the activity is above and beyond the employee's position description to the Supplemental Pay Form.	The Provost's Office	12/31/2021	11/30/2023
21-10	Supplemental Pay Audit	12/04/2020	CSU	3	The Provost should include the maximum supplemental pay amounts in relevant University policies and manuals.	Agree. The Provost or her designee will seek out all locations of policies, procedures and manuals and update to include the maximum supplemental pay amounts.	The Provost's Office	12/31/2021	06/30/2023
21-10	Supplemental Pay Audit	12/04/2020	CSU	2	The Provost should clarify and enforce the definition of "incidental activity" and require justifications for activities that go beyond incidental within University policies, procedures, and manuals related to supplemental pay.	Agree. The Provost or her designee will seek to identify a "best practices" definition of incidental activity relative to supplemental pay and include that in policies, procedures, and manuals. This definition will be communicated to deans, department heads, and supervisors and enforced at the Provost approval point.	The Provost's Office	12/31/2021	06/30/2023
21-10	Supplemental Pay Audit	12/04/2020	CSU	1	The Provost should update policies, procedures, and manuals to include documentation of the basis for the pay amount (e.g. market, tradition, etc.).	Agree. The Provost or her designee will seek out all locations of policies, procedures, and manuals and update to include the basis for the supplemental pay amount.	The Provost's Office	12/31/2021	06/30/2023



All Overdue Recommendations

Audit #	Audit Name	Report Date	Inst.	Rec. #	Recommendation	Audit Report Response	Dept.	Target Completion Date	Revised Target Completion Date
20-21	Office of Research and Sponsored Program	05/07/2020	CSU P	12	The Director of OSP and the Controller should work with Human Resources to identify a method to better address research-related conflicts of interest.	Agree. CSU-Pueblo will continue to abide by the current COI reporting and disclosure process (managed by Human Resources) while they continue to evaluate the impact and resource need to implement the Kualu COI module annually.	OSP	12/31/2022	12/31/2023
20-21	Office of Research and Sponsored Program	05/07/2020	CSU P	5	The Director of OSP and the Controller should work with the needed parties to develop University-wide policies related to institutional base salary.	Agree. CSU-Pueblo will proceed with the development of University-wide policies related to institutional base salary.	OSP	06/30/2021	12/31/2023
20-10	Human Resources and Payroll	10/25/2019	CSU P	4	The CSU-Pueblo President should work with the CSU System to determine if it would be possible and beneficial for CSU-Pueblo to migrate to Oracle as a Human Resources Information System.	Agree. CSU-Pueblo is aware that internal control weaknesses exist with AIS. CSU-Pueblo leadership has collaborated with the CSU System Chief Information Officer to assess alternatives to AIS.	HR and Payroll	03/31/2022	07/01/2024

Finance Committee



State Budget Update

Verbal Update



Campus Budget Update with Tuition Discussion



FY25 Incremental E&G Budget - V.1
Colorado State University - Fort Collins

Tuesday, September 26, 2023

Scenario 1	Scenario 2
Rate = 3% - RUG	Rate = 0% - RUG
State = 5%	State = 5%
Salary Inc. = 3%	Salary Inc. = 3%

1 New Resources

2 Tuition		
3 Enrollment		
4 Increase/Decrease in FTE		
5 Undergraduate ¹	\$ -	\$ -
6 Graduate	900,000	900,000
7 Undergraduate Rate Increase		
8 Resident - 3%, 0%	4,477,000	-
9 Non-Resident - 3%, 0%	5,764,000	-
10 Graduate Rate Increase		
11 Resident - 3%, 0%	492,000	-
12 Non-Resident - 3%, 0%	757,000	-
13 Professional Veterinary Medicine Rate Increase	985,000	-
14 Differential Tuition	736,000	-
15 Total Tuition	\$ 14,111,000	\$ 900,000
16 State Funding Impact - FFS	5,381,000	5,381,000
17 State Funding Impact - SEP	4,469,000	4,469,000
18 Facilities and Administrative Overhead	-	-
19 Other	(2,000,000)	(2,000,000)
20 Total New Resources	\$ 21,961,000	\$ 8,750,000
21		
22 Financial Aid	4,149,000	2,927,000
23 Net New Resources	\$ 17,812,000	\$ 5,823,000

24 New Expenses

25 Multi-Year Central Investments in Strategic Initiatives	\$ 2,569,000	\$ 2,569,000	GA fees, student success, rural initiative
26 Faculty/Staff Compensation	27,984,000	27,984,000	Merit raises, market adjustments, step increases, benefits cost increases
27 Academic Incentive Funding	1,512,000	-	Differential tuition, tuition sharing
28 Mandatory Costs	9,796,000	9,796,000	Bond payments, new facilities, insurance, utilities, library collection.
29 Quality Enhancements	1,477,000	1,477,000	Primarily startups, retentions and position modifications
30 Budget Reallocation	(3,000,000)	(3,000,000)	1% budget reallocation
31			
32 Total New Expenses	\$ 40,338,000	\$ 38,826,000	
33			
34 Net New Incremental Budget Resources	\$ (22,526,000)	\$ (33,003,000)	
35 FY24 Budget Deficit	\$ (2,711,000)	\$ (2,711,000)	
36 Total Base Budget Overage (Shortfall)	\$ (25,237,000)	\$ (35,714,000)	

¹ FA23 enrollment has declined resulting in a \$2M revenue shortfall. Enrollments will be monitored over the course of the academic year.
This assumes the same level of enrollment as budgeted in FY2024.

1% RUG Increase = student share \$103/yr.
1% Increase NRUG = student share \$310.55/yr.

1% RUG Increase = \$1.5M
1% NRUG Increase = \$1.6M
1% Salary Increase = \$5.4M
(\$4.6M Fac/AP; \$600K SC; \$235K GA)

Base Assumptions

Resident Undergraduate 3%, \$309/yr.
Non-Resident Undergraduate 3%; \$931.66/yr.
Resident Graduate 3%; \$335/yr. and Resident Professional Veterinary Medicine 3%; \$1,137/yr.
Non-Resident Graduate 3%; \$821/yr. and Non-Resident Professional Veterinary Medicine 3%; \$1,838/yr.
Differential Tuition - UG ~ 3% (est. round to whole number)
Salary Increases Faculty/AP - Merit -3%
Salary Increases SC - 3%
Salary Increases Grads - 3%
Preliminary Mandatory Student Fees - TBD

CSU-Fort Collins Revised Funding Shortfall (Budget)

	Original Budget FY20	Original Budget FY21	Adjusted FY21	Original Budget FY22	Original Budget FY23	Original Budget FY24	Projected Results FY24	3% Tuition FY25 - Incremental
Resources:								
1 Student tuition and fees (Less COF)								
2 Enrollment Growth (UG)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900,000
3 Tuition Rate	-	-	-	-	-	-	-	13,211,000
4	\$ 436,191,460	\$ 403,179,642	\$ 411,985,642	\$ 426,084,644	\$ 447,324,533	\$ 472,193,196	\$ 473,093,000	\$ 14,111,000
5 State fee for service revenue (with COF)								
6 State Funding	\$ 149,975,416	\$ 62,803,527	\$ 57,947,681	\$ 160,802,000	\$ 178,077,467	\$ 197,015,495	\$ 197,015,495	\$ 9,850,000
7 CARES (1X)	-	79,554,679	84,410,525	-	-	-	-	-
8	\$ 149,975,416	\$ 142,358,206	\$ 142,358,206	\$ 160,802,000	\$ 178,077,467	\$ 197,015,495	\$ 197,015,495	\$ 9,850,000
9 Grants and contracts								
10 Direct	\$ 308,704,707	\$ 308,882,948	\$ 308,882,948	\$ 359,172,000	\$ 384,187,730	\$ 420,512,575	\$ 420,513,000	\$ -
11 Indirect (F&A)	54,000,000	54,000,000	54,000,000	55,000,000	59,000,000	65,000,000	65,000,000	-
12	\$ 362,704,707	\$ 362,882,948	\$ 362,882,948	\$ 414,172,000	\$ 443,187,730	\$ 485,512,575	\$ 485,513,000	\$ -
13 Sales and services of educational activities								
14 PVM, AES, CES - Cash Operations	\$ 59,746,799	\$ 46,115,152	\$ 46,115,152	\$ 54,682,000	\$ 60,999,257	\$ 62,066,793	\$ 62,067,000	\$ (2,000,000)
15								
16 Auxiliary enterprises								
17 Housing and Dining Services	\$ 93,683,100	\$ 48,176,800	\$ 48,176,800	\$ 83,175,000	\$ 90,940,200	\$ 105,757,000	\$ 105,757,000	\$ -
18 Lory Student Center	32,281,300	26,624,500	26,624,500	27,026,000	28,672,800	30,337,300	30,337,000	-
19 Athletics	48,436,866	33,756,740	33,756,740	46,507,000	48,004,883	48,058,633	48,059,000	-
20 Other (CSUHN, Parking, Campus Rec, STUORG)	74,539,472	64,254,555	64,254,555	60,751,000	73,580,118	68,402,351	68,402,000	-
21	\$ 248,940,738	\$ 172,812,595	\$ 172,812,595	\$ 217,459,000	\$ 241,198,001	\$ 252,555,284	\$ 252,555,000	\$ -
22 Other operating revenue								
23 Seedling Tree, GENOPS, Continuing Ed	\$ 66,242,932	\$ 63,616,006	\$ 63,616,006	\$ 72,430,000	\$ 62,622,300	\$ 65,775,258	\$ 65,775,000	\$ -
24 Total Resources	\$ 1,323,802,052	\$ 1,190,964,549	\$ 1,199,770,549	\$ 1,345,630,000	\$ 1,433,409,000	\$ 1,535,118,601	\$ 1,536,018,495	\$ 21,961,000
25 Expenses:								
26 Total Expenses (includes Financial Aid)	\$ 1,323,802,052	\$ 1,246,783,549	\$ 1,246,783,549	\$ 1,360,532,000	\$ 1,439,279,824	\$ 1,541,912,601	\$ 1,537,830,000	\$ (41,487,000)
27 COVID Expenses (Screening, testing, contract tracing, quarantine, revenue losses)	-	-	14,703,813	-	-	-	-	-
28 Permanent Base Reductions/Salary Reinvestment	-	(17,000,000)	(17,000,000)	(1,998,000)	-	(4,083,000)	-	(3,000,000)
29 System Office Reallocation	-	(550,000)	(550,000)	-	-	-	-	-
30 Total Expenses	\$ 1,323,802,052	\$ 1,229,233,549	\$ 1,243,937,362	\$ 1,358,534,000	\$ 1,439,279,824	\$ 1,537,829,601	\$ 1,537,830,000	\$ (44,487,000)
31								
32 Net General Fund Impact	\$ -	\$ (38,269,000)	\$ (44,166,813)	\$ (12,904,000)	\$ (5,870,824)	\$ (2,711,000)	\$ (1,811,505)	\$ (22,526,000)
33								
34 Less: Structural Budget Deficit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (2,711,000)
35 Less: One-Time FY21 Resources	-	-	-	-	-	-	-	-
36 Planned Board Reserve Draw	-	20,000,000	-	-	-	-	-	-
37 Planned Scoop & Toss Draw	-	18,269,000	-	-	-	-	-	-
38 HEERF II	-	-	19,449,668	-	-	-	-	-
39 HEERF III	-	-	24,717,145	-	-	-	-	-
40	\$ -	\$ 38,269,000	\$ 44,166,813	\$ -	\$ -	\$ -	\$ -	\$ (2,711,000)
41								
42 Net Shortfall	\$ -	\$ -	\$ -	\$ (12,904,000)	\$ (5,870,824)	\$ (2,711,000)	\$ (1,811,505)	\$ (25,237,000)



FY 2025 Incremental E&G Budget - V.1.2
Colorado State University - Pueblo

September 14, 2023

		Tuition: 3%; State: 5%; Salary inc: 3% ALL	Tuition: 0%; State:5%; Salary inc: 3% ALL
New Resources			
Tuition			
Undergraduate Rate Increase:			
1	Undergraduate Resident Tuition	\$ 541,000	\$ -
2	Non-Resident (includes TWOLF & WUE rate)	319,575	\$ -
3	Undergraduate Differential Tuition	19,000	\$ -
Graduate Rate Increase:			
4	Graduate Resident Tuition	\$ 212,583	\$ -
5	Non-Resident	8,000	\$ -
6	Graduate Differential Tuition	10,000	\$ -
7	Projected Enrollment Revenue Change (-3%)	<u>(700,000)</u>	<u>\$ (700,000)</u>
8	Total Tuition	<u>410,158</u>	<u>(700,000)</u>
9	State Funding Impact	\$ 1,339,073	1,339,073
10	Other Resources (estimate)	940,000	940,000
11	Total New Resources	<u>\$ 2,680,000</u>	<u>\$ 1,570,000</u>
12	Financial Aid	103,000	\$ -
13	Net New Resources	<u>\$ 2,580,000</u>	<u>\$ 1,570,000</u>
New Expenses			
14	Expense Reduction (savings from compensation management)	(500,000)	(500,000)
15	Faculty/Staff Comp (includes Fac/AP/SC ,fringe & Equity increases)	\$ 1,380,000	1,380,000
16	Mandatory Costs	\$ 1,200,000	\$ 1,200,000
17	Total New Expenses	<u>\$ 2,080,000</u>	<u>\$ 2,080,000</u>
18	Net Structural Deficit	<u>\$ 500,000</u>	<u>\$ (510,000)</u>
19	FY24 Budget Shortfall (includes FY24 Incremental Net Change)	\$ (1,000,000)	\$ (1,000,000)
20	One-time Budget Resources (EG Fund Balance)	\$ 500,000	\$ 500,000
21	Total Base Budget Overage (Shortfall)	<u>\$ -</u>	<u>\$ (1,010,000)</u>

	Original	Adjusted	Original	Adjusted	Original	Projected Results	Tuition: 3%; State: 5%; Salary inc: 3% ALL	Tuition: 3%; State: 5%; Salary inc: 3% ALL
	FY22	FY22	FY23	FY23	FY24	FY24	FY25- Estimate	Est \$ Change FY24 to FY25
Resources:								
1 Student Tuition and Fees (less COF) ¹								
2 Enrollment Change (UG & GR)							(700,000)	(700,000)
3 Tuition Rate							1,110,158	1,110,158
4	\$ 41,569,927	\$ 38,850,783	\$ 38,932,783	\$ 38,932,783	\$ 39,194,783	\$ 39,194,783	\$ 39,604,941	\$ 410,158
5 State Fee for Service Revenue (with COF)								
6 State Funding	22,541,141	22,541,141	24,283,024	24,283,024	26,853,053	26,853,053	28,192,126	1,339,073
7 CARES/HEERF (1X) ²								
8 FFS (1X) ²								
9	\$ 22,541,141	\$ 22,541,141	\$ 24,283,024	\$ 24,283,024	\$ 26,853,053	\$ 26,853,053	\$ 28,192,126	\$ 1,339,073
10 Sales and Services of Educational Activities								
11 Fee Revenue (transcripts other processing fees)	\$ 550,000	\$ 550,000	\$ 550,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ -
12 Auxiliary Enterprises								
13 Housing and Dining Services	4,939,156	4,939,156	4,939,156	4,840,315	4,840,315	4,840,315	4,840,315	-
14 Ochiato Student Center	148,000	148,000	148,000	3,314,000	3,314,000	3,314,000	3,314,000	-
15 Athletics	7,301,990	7,301,990	7,301,990	11,103,177	11,103,177	11,103,177	11,103,177	-
16 Other (Parking, Student Rec Center)	1,838,100	1,838,100	1,838,100	1,520,000	1,520,000	1,520,000	1,520,000	-
17	\$ 14,227,246	\$ 14,227,246	\$ 14,227,246	\$ 20,777,492	\$ 20,777,492	\$ 20,777,492	\$ 20,777,492	\$ -
17 Other Operating Revenue								
18 Board Support(Housing Debt Service)	2,790,856	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	-
19 Extended Studies Transfer	1,500,000	1,500,000	3,300,000	3,300,000	4,410,000	4,410,000	5,350,000	940,000
20 Permanent Increase of ES Transfer		1,300,000						
21 Total Resources	\$ 83,169,170	\$ 82,169,170	\$ 84,493,053	\$ 90,813,299	\$ 94,755,328	\$ 94,755,328	\$ 97,444,559	\$ 2,680,000
Expenses								
22 Total Expenses (includes Financial Aid)	\$ 86,641,838	\$ 85,641,838	\$ 87,215,722	\$ 93,535,968	\$ 95,754,997	\$ 95,754,997	\$ 97,947,997	\$ 2,193,000
23 COVID Expenses (Screening, testing, etc.)								
24 Permanent Base Reductions								
25 Total	\$ 86,641,838	\$ 85,641,838	\$ 87,215,722	\$ 93,535,968	\$ 95,754,997	\$ 95,754,997	\$ 97,947,997	\$ 2,193,000
26 Net impact resources less expenses	\$ (3,473,000)	\$ (3,473,000)	\$ (2,723,000)	\$ (2,723,000)	\$ (1,000,000)	\$ (1,000,000)	\$ (500,000)	\$ 500,000
27 Less Structural Budget Deficit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,000,000)
28 One-Time Resources								
29 Planned Board Reserve Deployment		-						
30 Planned Strategic Financing Resources								
31 HEERF II&III								
32 HEERF III	3,472,668	3,472,668						
33 EG Fund Balance						1,000,000		500,000
34	3,472,668	3,472,668						
35 Total Net Shortfall	\$ -	\$ -	\$ (2,723,000)	\$ (2,723,000)	\$ (1,000,000)	\$ -	\$ (500,000)	\$ -

¹ Includes all tuition revenue including Extended Studies

² A reallocation in CARES funding reduces this to \$5,993,523; difference made up with Fee for Service Funds.



Colorado State University Global FY24 October Financial Report

	Original FY24 Budget		FY24 YTD Actuals		FY24 Forecast	
	Presented at June BOG	Percent of Revenue	Through August 2023	Percent of Revenue	As of August 2023 ²	Percent of Revenue
Operating Revenues						
Student Tuition and Fees, net SEU ¹	78,950,598	82.0%	10,476,309	97.3%	67,557,526	87.1%
Other Operating Revenue	16,669,100	17.3%	266,000	2.5%	9,433,000	12.2%
	641,800	0.7%	19,493	0.2%	558,793	0.7%
Total Operating Revenues	96,261,498	100.0%	10,761,803	100.0%	77,549,319	100.0%
Operating Expenses						
Instruction SEU [^]	16,958,727	20.0%	2,200,987	20.7%	14,242,653	20.4%
Academic Support	11,180,200	13.2%	0	0.0%	6,483,000	9.3%
Student Services ex. Marketing Lead Buy	8,355,919	9.8%	1,133,491	10.7%	7,834,989	11.2%
Marketing Lead Buy	15,743,655	18.5%	2,231,952	21.0%	14,898,416	21.3%
Institutional Support	24,985,000	29.4%	3,721,772	35.1%	18,755,132	26.8%
Operation and Maintenance of Plant	7,014,776	8.3%	1,234,526	11.6%	7,074,453	10.1%
Depreciation	340,765	0.4%	50,599	0.5%	317,189	0.5%
	300,000	0.4%	35,877	0.3%	285,877	0.4%
Total Operating Expenses	84,879,042	100.0%	10,609,204	100.0%	69,891,709	100.0%
Operating Income	11,382,456		152,599		7,657,610	
Operating Margin	11.8%		1.4%		9.9%	
Operating Income Ex. Marketing Lead Buy	36,367,456		3,874,371		26,412,742	
Operating Margin	37.8%		36.0%		34.1%	
End of Year Enrollment	15,337				11,824	
Total New Enrollment	9,400				6,786	

1. Budget includes opportunity with SEU for Bachelor's Program Refresh that will now not occur in FY24.

2. Forecast includes two months of actuals and ten months of forecast.

Approval – Student Course Fees CSU-Pueblo (corrected)



The Board of Governors
of the Colorado State University System
Meeting Date: October 5-6, 2023
Action Item

MATTER FOR ACTION:

Approval of the FY 2023-2024 Course fees for CSU – Pueblo.

RECOMMENDED ACTION:

MOVED, that the Board of Governors of the Colorado State University System approves the proposed fees as listed in MATTERS FOR ACTION for the 2023-2024 Fiscal Year.

EXPLANATION:

Presented by Timothy Mottet, President, Colorado State University - Pueblo.

At the June 2023 CSU System Board of Governor’s meeting, the Board approved course and program fees for CSU-Pueblo. The document that was approved did not include new Program Fees for ARC 249, 259, 349 and 359. The corrected schedule is included for your review and approval.

Approved

Denied

Board Secretary

Date

COURSE AND PROGRAM FEES - FEE CHANGES
Fall 2023, Spring 2024, Summer 2024

	Course Prefix	Course Number	Course Name	Current Fee	Requested Fee	How applied (per credit/per student)
1	ARC	239	Practicum: Sound, Radio, and Podcasting	\$0.00	\$50.00	per credit
2	ARC	249	Practicum: Film, Video, & Television	\$0.00	\$50.00	per credit
3	ARC	259	Practicum: Art, Advertising, & Design	\$0.00	\$50.00	per credit
4	ARC	339	Advanced Practicum: Sound & Radio & Podcasting	\$0.00	\$50.00	per credit
5	ARC	349	Advanced Practicum: Film, Video & Television	\$0.00	\$50.00	per credit
6	ARC	359	Advanced Practicum: Art, Advertising, & Design	\$0.00	\$50.00	per credit
7	ARC	399	PROFESSIONAL CONFERENCE EXPERIENCE	\$0.00	\$600.00	per credit
8	EPER	125L	SNOW SPORTS	\$0.00	\$200.00	per student
9	HS	325	HEALTH COMMUNICATION	\$0.00	\$5.00	per credit
10	MAE	101	Media And Society	\$0.00	\$25.00	per credit
11	MAE	140	Introduction To Film	\$0.00	\$25.00	per credit
12	MAE	210	Hispanic, Chlcax, And Indigenous Media	\$0.00	\$25.00	per credit
13	MAE	211	Women & Media	\$0.00	\$25.00	per credit
14	MAE	301	Theories & Research In Media	\$0.00	\$25.00	per credit
15	MAE	302	Audience Research & Advertising	\$0.00	\$25.00	per credit
16	MAE	305	Scriptwriting	\$0.00	\$25.00	per credit
	MAE	310	Evolution Of Media & Creative Technologies			
17				\$0.00	\$25.00	per credit
18	MAE	311	Gender&Rlm	\$0.00	\$25.00	per credit
19	MAE	370	social Media & Online Strategies	\$0.00	\$25.00	per credit
20	MAE	371	Public Relations	\$0.00	\$25.00	per credit
21	MAE	372	Branding And Advertising	\$0.00	\$25.00	per credit
	MAE	380	The BusinRss Of Media, Entertainment, & The Arts			
22				\$0.00	\$25.00	per credit
23	MAE	381	Creative careers & Talent Management	\$0.00	\$25.00	per credit
24	MAE	382	Concerts, Festivals, & Events	\$0.00	\$25.00	per credit
25	MAE	401	Law, Ethics, & Regulation Of Media	\$0.00	\$25.00	per credit
26	MAE	405	Screenwritlng	\$0.00	\$25.00	per credit
27	MAE	470	Image & Innuencers	\$0.00	\$25.00	per credit
28	MAE	471	Crisis Communications	\$0.00	\$25.00	per credit
29	MAE	472	Nonprofit Organizations & Communication	\$0.00	\$25.00	per credit
30	MAE	475	Strategic Communication Campaigns	\$0.00	\$25.00	per credit
31	MAE	480	Copyright, Lkensing, & Publishing	\$0.00	\$25.00	per credit
32	MAE	494	Field Experience	\$0.00	\$25.00	per credit
33	MAE	498	Internship	\$0.00	\$25.00	per credit

Annual Approval - Institutional Plan for Student Fees



The Board of Governors
of the Colorado State University System
Meeting Date: October 5-6, 2023
Action Item

MATTER FOR ACTION:

CSU and CSU Pueblo: Approval of Institutional Student Fee Plan and Policy.

RECOMMENDED ACTION:

MOVED, that the Board of Governors of the Colorado State University System hereby approves the Institutional Student Fee Plan and Policy for Fiscal Year 2023 – 2024 for Colorado State University and Colorado State University Pueblo.

EXPLANATION: Presented by Amy Parsons, President, Colorado State University, Timothy Mottet, President, Colorado State University Pueblo, and Jason L. Johnson, General Counsel.

In accordance with C.R.S. § 23-5-119.5 and Colorado Commission on Higher Education Policy VI-C, the Board of Governors is required to adopt an Institutional Student Fee Plan and Policy and to annually review the Plan and approve any changes. The attached Institutional Student Fee Plan and Policy for CSU and CSU Pueblo, respectively, align with statutory and CCHE requirements and provide the necessary information regarding student fees, as well as the processes the institutions follow for the review and internal approval of student fees each year. CSU Global does not charge student fees, thus no student fee plan is necessary.

There are no substantive changes to the Institutional Student Fee Plan and Policy for CSU or CSU Pueblo for Fiscal Year 2023 – 2024.

Approved

Denied

Board Secretary

Date



POLICIES OF COLORADO STATE UNIVERSITY

UNIVERSITY POLICY

Policy Title: Student Fees	Policy ID # 2-1065-002
Effective Date: Original Effective Date: 8/22/2008 Last Revision: 10/6/2022	Category: 2. Finance
Policy Owner: Board of Governors of the CSU System	Contact(s): Vice President for University Operations Web: https://operations.colostate.edu/ Email: operations@colostate.edu Phone: (970) 491-5257 Also Contact: Vice President for Student Affairs Web: https://studentaffairs.colostate.edu/ Email: vpsa@colostate.edu Phone: (970) 491-5312

COLORADO STATE UNIVERSITY

FY2024 Institutional Student Fee Plan and Policy

INTRODUCTION AND PURPOSE

The purpose of this Institutional Student Fee Plan and Policy (Plan) is to provide information in accordance with C.R.S. § 23-5-119.5 and Colorado Commission on Higher Education Policy VI-C requiring the Board to adopt a Fee Policy and an Institutional Student Fee Plan.

1. Definitions:

As used in this Plan, we define the following terms:

Academic Course: A program of instruction, including, but not limited to educational, vocational, occupational, technical, music, and physical education courses.

Academic Facilities Construction: Academic Facilities are those facilities that are core to the role and mission of the institution and may include, but are not limited to space dedicated to instructional, student services, or administration. As defined in CCHE Policy Section VI-C-1.50, it includes buildings and site improvements, or specific space within a multi-use building (including utilities and transportation infrastructure) as defined in C.R.S. § 24-75-301. The determination of academic facility or space is based on the function/purpose of the building or space. In a multipurpose building, the space determination is based on the primary usage of space during the regular academic year.

Alternative Transportation Fee Advisory Board (ATFAB): The ATFAB is comprised of student members and non-student *ex officio* members that provide guidance and advice to the President of the Associated Students of Colorado State University (ASCSU) and the University administration regarding alternative transportation projects and initiatives and to recommend the allocation of ATFAB fees for new and improved transportation facilities and programs. ATFAB is governed by the ATFAB Bylaws, subject to the approval of the Student Fee Review Board (SFRB).

Auxiliary Facility: As defined in C.R.S. § 23-5-101.5(2)(a), any student or faculty housing facility; student or faculty dining facility; recreational facility; student activities facility; child care facility; continuing education facility or activity; intercollegiate athletic facility or activity; health facility; alternative or renewable energy producing facility, including but not limited to a solar, wind, biomass, geothermal, or hydroelectric facility; college store; or student or faculty parking facility; or any similar facility or activity that has been historically managed, and was accounted for in institutional financial statements prepared for the fiscal year 1991-92 as a self-supporting facility or activity, including any additions to and any extensions or replacements of any such facility on any campus under the control of the governing board managing such facility. "Auxiliary facility" shall also mean any activity undertaken by the governing board of any state-supported institution of higher education as an eligible lender participant.

Board for Student Organization Funding (BSOF): The body whose primary purpose is to allocate a portion of the ASCSU Student Fee approved by the Board of Governors of the Colorado State University System to student organizations for educational and cultural programming and to administer relevant provisions of Article VIII of the ASCSU Constitution. The BSOF Bylaws govern the BSOF.

Charge for Service: A charge assessed to certain students to cover the costs of delivering specific services to those students. Charges for service are not mandatory for all students. Charges for service are, however, required for students who meet the criteria for which the charge is assessed. These may include, but are not limited to: application charges, add/drop charges, fines and penalties, late charges, orientation charges, college technology charges and matriculation fees, parking permit charges and citations, and charges for services provided to online students. Charges for service are not Student Fees and do not require legislative spending authority appropriation or student approval.

Contractually Based Fee: Any Fee that is (a) required to satisfy any existing contractual obligation or (b) related to bonds or other debt obligations issued or incurred before July 30, 1997. (Note: Fees related to bonds issued on or after July 30, 1997, are *User Fees*.)

Fee(s) or Student Fee(s): Fees are any amount other than tuition that is assessed to all individual students as a condition of enrollment in the University. Fees may be used for academic and non-academic purposes, including, but not limited to:

- Funding registered student organizations and student government;
- Construction, remodeling, maintenance, and improvement of student centers, recreational facilities, and other projects and improvements for which the University Facility Fee is approved;
- Intercollegiate and Intramural Athletics;
- Student Health Services;
- Technology and infrastructure for which the University Technology Fee is approved;
- Mass Transit; and
- Contractually Based Fees (including bond payments for which Student Fees have been pledged).

“Student Fee” excludes tuition, Special Course Fees, User Fees, and Charges for Services. Student Fees may be subject to certain waivers, exceptions, or prorations.

Special Course or Program Fee(s): These are mandatory fees that a student must pay to enroll in a specific course or program. Examples of Special Course Fees are lab fees, music program fees, art fees, materials fees, and telecourse fees. Special Course Fees are established in accordance with the Special Course Fee Manual and are not Student Fees. Revenue generated from Special Course or Program Fees cannot be used to fund academic facilities’ construction.

Student Fee Review Board (SFRB): A body comprised of student members and non-student, *ex officio* members that exists for purposes of providing efficient, equitable, and consistent review of Student Fees and the services for which Fees are assessed. SFRB makes recommendations to the Board of Governors regarding Fee proposals, new Fee-funded areas, and changes to existing Student Fees. The SFRB Bylaws and the ASCSU Constitution govern SFRB. Alternative Transportation Fee Advisory Board (ATFAB), University Facility Fee Advisory Board (UFFAB), and University Technology Fee Advisory Board (UTFAB)- recommended fees must be approved by SFRB. All Student Fee-funded areas make recommendations to SFRB except as specified in this Plan.

University Facility Fee: A Student Fee approved by ASCSU, including Senate Bill 3540 (2005), to be used for capital improvements at CSU.

University Facility Fee Advisory Board (UFFAB): A body comprised of student members and nonstudent, *ex officio* members, that provides guidance concerning the University Facility Fee to the Vice President for University Operations (VPUO) or their designees regarding project proposals for allocations of the University Facility Fee, and to ensure that all allocations of the University Facility Fee will be used to provide new facilities or to improve current facilities that directly benefit the students of Colorado State University. UFFAB is governed by the UFFAB Bylaws, subject to the approval of SFRB.

University Technology Fee: A Student Fee approved by ASCSU and the Board of Governors beginning in 2003 to be used to enhance online student services, replace computers, and build and maintain the physical improvements needed for computer infrastructure.

University Technology Fee Advisory Board (UTFAB): A body comprised of student members and non-student *ex officio* members that provides guidance and advice in the implementation and application of technology at Colorado State University; reviews all allocation requests of the University Technology Fee; and ensures that all allocations will be used to provide technology that has the potential to benefit as many Colorado State University students as possible. The UTFAB Bylaws, subject to the approval of SFRB govern UTFAB.

User Fee(s): A fee collected for purposes of paying any bonds or other debt obligations issued or incurred on or after July 1, 1997, on behalf of an auxiliary facility, from persons using the auxiliary facility, which includes the amount necessary for repayment of the

bonds or other debt obligations and any amount needed for the operation and maintenance of the auxiliary facility. User Fees do not require legislative spending authority appropriation and do not require student approval. Examples of User Fees include debt service associated with residence halls, parking facilities, and Fees paid by non-campus users for use of university facilities.

2. Types and purposes of Student Fees collected by the institution:

The institution collects Student Fees, User Fees, Special Course and Program Fees, and Charges for Services, as defined above. Student Fees are used for academic and non-academic purposes, including but not limited to funding registered student organizations and the student government; construction, remodeling, maintenance and improvement of student centers, recreational facilities, and other projects and improvements for which the Fee is approved; intercollegiate and intramural athletics; student health services; technology for which the University Technology Fee is approved; mass transit; and Contractually Based Fees (including bond payments for which Fees have been pledged). The allocation of Student Fees to the funding of registered student organizations or any other student speech shall be made in a viewpoint-neutral manner.

3. Procedures for establishing, reviewing, changing and discontinuing Student Fees:

- a. The Student Fees to be assessed are approved annually by the Board of Governors of the Colorado State University System. The President of the University annually recommends to the Board of Governors the specific Fees and the allocation of Fee revenues, which may be approved, rejected, or modified at the Board's discretion. In addition, without restricting the President's discretion, the Bylaws of the Student Fee Review Board (SFRB) set forth the meaningful processes by which student input on Student Fees is provided to the University administration before the President makes a recommendation to the Board of Governors. The budget assumptions on which to base the requests are set by the CSU President, consistent with the institution's annual budget process.
- b. Except for Contractually Based Fees and/or to provide for mandatory cost increases, all new Student Fees, and all increases in existing Student Fees, shall be subject to the Bylaws of the SFRB. Mandatory costs comprise salaries and benefits, debt service, utilities and general and administrative fees assigned by the University. All requests for new Student Fees, other than Contractually Based Fees, shall be initiated through the established SFRB process. This process shall require the SFRB to make recommendations

regarding Student Fees in accordance with the SFRB Bylaws and ASCSU Constitution.

- c. Each academic year, an SFRB member will be assigned as a liaison to one or more programs or activities funded by existing Student Fees. The SFRB liaison will work with the Director of the program or activity throughout the academic year to learn about the program and its budget and to review any proposed change or increase to the Fees supporting that program. The Director of the Fee-funded area and the assigned liaison will present the budget and all relevant information for the next fiscal year. The SFRB liaison for a Fee area may advise the SFRB but shall not cast a vote on Fees for that area. University leadership may also present information to the SFRB regarding institutional priorities and goals. The SFRB shall review and consider all information presented, including student input/feedback received by each SFRB member, following the specific processes and procedures detailed in the Bylaws of the SFRB. All recommendations for new Fee-funded areas shall be submitted to the SFRB in the form of a proposal as detailed in the SFRB Bylaws. The proposal shall demonstrate that the Fee request is student-sponsored, that sufficient student need for the Fee exists, and that the Fee will be allocated in partnership with a specific University department. Final approval of a new Student Fee rests with the Board of Governors.
- d. After the SFRB has reviewed the information presented by the liaisons, Directors, and University leadership, and evaluated any requests for new Fees, Fee increases or decreases, and Fee extensions, the SFRB forms recommendations and presents them to the ASCSU Senate for a vote of confidence. The President's leadership team (such as the President's Cabinet or Operations Team, at the President's discretion) then reviews the recommendations and forwards them to the President, who then forwards them to the Board of Governors for final action, along with any additional or different institutional recommendations. The CSU student representative to the Board of Governors attends the meeting at which the Board reviews and approves the Student Fees.
- e. The Board of Governors annually reviews and approves Student Fees. Its review and approval process includes any new Student Fees and increases in existing Fees. Also, a program plan must be approved by the Board before any new Student Fee for capital improvements will be considered. Notwithstanding any other provision in the Institutional Fee Plan, or any other governing procedure, rule, bylaw, or policy, the Board of Governors

shall provide to students at least thirty (30) days' advance notice of a new Fee assessment or Fee increase, which notice, at a minimum, specifies:

1. The amount of the new Fee or of the Fee increase;
2. The reason for the new Fee or Fee increase;
3. The purpose for which the institution will use the revenues received from the new Fee or Fee increase; and
4. Whether the new Fee or Fee increase is temporary or permanent and, if temporary, the expected date on which the new Fee or Fee increase will be discontinued.

A decision by the Board of Governors regarding a Fee shall be final and incontestable either on the thirtieth day after final action by the Board of Governors or on the date on which any evidence of indebtedness or other obligation payable from the Fee revenues is issued or incurred by the Board, whichever is earlier.

4. Procedures by which students may contest the imposition or amount of a Fee and a process for resolving disputes regarding Fees:

The process described above includes direct, meaningful student input on all Fees. If a student wishes to lodge a complaint about a specific Student Fee (other than a Contractually Based Fee), the student submits a complaint or request for a Fee waiver to the Vice President for Student Affairs (VPSA), who may hear the appeal or appoint an appeal officer to hear the appeal and resolve the issues. The decision of the VPSA or appeal officer is final.

5. Plan for addressing reserve fund balances:

Fee-funded areas should maintain a fund balance between ten and twenty percent (10-20%) of annual revenues, dependent upon contractual and other financial obligations. Auxiliary Fee-funded areas should maintain a similar fund balance along with separate reserves in support of the anticipated capital expenditures and facility master plan.

REFERENCES

[Board of Governors Resolution](#)

[Board of Governors Policy on Student Fees](#)

COLORADO STATE UNIVERSITY PUEBLO Institutional Plan for Student Fees and Charges

1. INTRODUCTION AND DEFINITIONS

The purpose of this Institutional Plan is to provide information on how student fees are proposed, reviewed, approved, and implemented at Colorado State University Pueblo in an open and transparent manner and in accordance with CCHE Policy VI-C.

A. Definitions of Key Terms:

Fees: Any amount, other than tuition, that is assessed to all individual students (where fees apply) as a condition of enrollment in the University. Fees are identified as permanent student purpose and do not include items defined as Charges for Service or User Charges. Fees may be used for academic and non-academic purposes, including but not limited to:

- Funding registered student organizations and student government
- Construction, remodeling, maintenance, and improvement of student centers, recreational facilities, and other projects and improvements for which a facility fee is approved
- Athletics
- Student Health Services
- Student Recreation Center
- Student Center
- Child Care Center
- Technology
- Mass transit
- Parking
- Bond payments for which fees have been pledged

Fees do not include Charges for Service, User Charges, and Program or Course fees as defined below.

Charges for Service: These are the assessments to cover the costs of delivering specific services which are incidental to instructional activities, including but not limited to:

- Application charges
- Add/drop charges
- Fines and penalties
- Transcript charges
- Late charges

- Testing charges
- Student identification card charges
- Health center charges and health insurance charges

Charges for Service do not include admissions to events or other such ancillary activities and are not fees as described above.

User Charges: These are assessments against students for the use of an auxiliary facility or service. A User Charge is assessed to only those students using the auxiliary facility or receiving the service. User Charges may include student housing, meal plans, and parking registration charges and are not fees as described above.

Course Specific Fees: These are non-campus-wide fees that a student may be assessed to enroll in specific courses (e.g., lab, music, art, and materials fees). Revenue from each Course Specific Fee is restricted for costs directly related to the associated course for which the fee is charged and each section of the associated course must be assessed the same Course Specific Fee.

Program Instructional Fees: These are non-campus-wide fees related to an instructional program, or courses within a program, and may include department-specific fees or program-specific fees, including program or department specific technology fees. Program fee revenue enhances the overall program and can be used for costs related to the program as long as it exists. *(Course and Program Fees are established in accordance with the Course & Program Fee Manual currently in development and are not Student Fees.)*

Student Fee Governing Board: The Student Fee Governing Board (SFGB) is the body at Colorado State University Pueblo responsible for recommending Permanent Student Purpose Fees, including the activities portion of the Student Affairs Fee. The SFGB shall also review requests for new, elimination of, or changes in existing campus-wide Permanent Student Purpose Fees. The Chair of the SFGB is appointed by the Senior Student Affairs Officer and is a non-voting member. The Associated Students' Government (ASG) Vice President shall appoint six students to serve on the Board. One faculty/staff member shall be appointed by each of the following: the Provost, the Chief Financial Officer, and the Senior Student Affairs Officer, for a total of three additional members. The six (6) student representatives and three (3) appointed representatives are voting members. The SFGB Chair, working with the SFGB, will maintain all records regarding allocations including but not limited to applications, justifications, and SFGB minutes for six years after the date of its recommendation.

2. FEE CATEGORIES

Every fee is classified as to whether its scope is Campus-wide or Non-campus-wide.

Campus-wide Fees: These are fees assessed to all students at the University as a condition of enrollment, including but not limited to the mandatory fees identified as Permanent Student Purpose Fees.

Non-campus-wide Fees: These are mandatory assessments to students which are not automatically imposed upon all students as a condition of enrollment, but are automatically assessed to students from a particular classification. These include but are not limited to course-specific fees and program-specific fees.

3. PURPOSE OF FEES

Fee Purpose: Fees at Colorado State University Pueblo are identified as 1) Permanent Student Purpose Fee, 2) Academic Facilities Fee, 3) Academic Purpose Fee, or 4) Administrative Purpose Fee. If a particular fee serves several purposes it shall be categorized within the most dominant purpose. Fee purposes are defined as:

- Permanent Student Purpose Fees: Campus-wide fees assessed to all students which are allocated to specific student programs including student centers, recreation facilities, parking lots, athletics, recreation and outdoor programs, child care centers, campus health clinics, contract health services, student government, general student activities which are allocated by student government for a specific purpose, and similar facilities and services. This category includes fees pledged to repay bonded indebtedness for student, auxiliary, and athletic facilities. The proposal and approval process for Permanent Student Purpose Fees is specified in item number 4.
- Academic Facility Purpose Fees: Campus-wide fees assessed to students and associated with the construction, acquisition, or remodel of academic facilities, which may include buildings and site improvements or specific space within a multi-use building, including utilities and transportation infrastructure. The determination of whether it is an academic facility or space is determined based on the function/purpose of the building or space. Academic facilities are those facilities that are core to the role and mission of the University and may include but not be limited to space dedicated to instruction and research. If it is a multi-purpose building, the space determination is based on the primary use of the space during the regular academic year.
- Academic Purpose Fees: Campus-wide or non-campus-wide fees associated with instruction, technology, and/or academic courses, including program and course fees.

- Administrative Purpose Fees: Campus-wide or non-campus-wide fees assessed to provide administrative and support services.

Charges for services and user charges are not fees.

4. PROPOSAL AND APPROVAL PROCESS

The proposal, review, and approval of fees involve students in a significant way. Fee proposals or changes shall occur as agenda items at regularly scheduled meetings of the Board of Governors.

In all cases, when fees are reviewed, the review must conclude with a recommendation for or against the proposed fee.

Permanent Student Purpose Fee: The implementation of a new, elimination of an existing, or change of an existing fee, must be:

- Initiated by the proposing unit;
- Referred to the Chair of the SFGB as a proposal for their review and possible referral to the ASG Senate;
- If proposed by the SFGB to the ASG Senate in the form of a recommendation for review, then referred to the University President;
- Recommended by the President to the Board of Governors for their consideration; and
- Acted upon by the Board of Governors.

Academic Facilities Purpose Fees: A proposal for an Academic Facilities Purpose Fee is subject to the following:

- All other financing options have been exhausted before the fee request is presented to the SFGB. The SFGB, at its discretion, initiates a recommendation to the ASG Senate;
- The SFGB will hold at least three information sessions to present the issue to the student body;
- The institution and student government representatives will present all relevant information in a fair and balanced manner;
- If the above conditions are met, an Academic Facilities Purpose Fee will be approved using the same process identified for campus-wide Permanent Student Purpose Fees.

Academic Purpose Fees: A new Academic Purpose Fee is:

- Initiated by the proposing unit in coordination with the appropriate Dean and reviewed by the curriculum committee of the college/school/center;
- Reviewed by the Provost, the appropriate Dean, the two Academic Senators from the proposing unit's school or college, and the Chief Financial Officer;
- Referred to the University President for possible discussion with the SFGB

- and/or the ASG Senate; and
- If approved by the President, submitted to the Board of Governors for consideration.

Administrative Purpose Fees:

There are no Administrative Purpose Fees in place at CSU Pueblo. If an Administrative Purpose Fee is proposed, it will be approved using the same process identified for Academic Purpose Fees.

Other Fees, Charges for Service, and User Charges:

Any new fee, Charge for Service, or User Charge not previously covered must be 1) initiated by the proposing unit in coordination with the appropriate Dean or Director and consultation with ASG representatives; 2) reviewed by the Provost, the Chief Financial Officer, and the Senior Student Affairs Officer for possible referral to the University President; and 3) approved by the University President, which would then be submitted, if required, to the Board of Governors for consideration.

Proposals Referred to the ASG Senate:

A fee proposal referred to the ASG Senate as a recommendation must 1) be presented at an ASG Senate meeting, 2) clearly indicate the amount of the fee, the purpose of the fee, and indicate if the fee can be used as pledged revenue for financing activities, and 3) be phrased in such a manner that an affirmative vote is for the fee proposal and a negative vote is against the fee proposal.

A recommendation that receives a majority of favorable votes from among those voting on the proposal shall be deemed as approved by the ASG Senate and sent to the President for consideration. No resolution for a fee increase that is defeated by a vote of the ASG Senate may be resubmitted to the ASG Senate for a vote until the next academic semester (summer excluded).

Normally, the President will only recommend a fee that requires action by the ASG to the Board of Governors if the fee was approved by the ASG Senate. Exceptions are 1) a recommendation is deemed necessary as a condition of a bonded indebtedness agreement, or 2) a recommendation is deemed critical to the institution's mission.

5. ADMINISTRATION OF FEES AND CHARGES

Budget Process for Fees and Charges:

Each fiscal year, the Office Financial Management (OFM) will be responsible for overseeing a list of fees and charges that are currently in use and proposed for the next fiscal year. Fees should be proposed within the deadlines established by the Provost, the Chief Financial Officer, and the Senior Student Affairs Officer. Each

year, the OFM will develop a calendar of deadlines that includes deadlines for fees. Campus units will make recommendations as to whether the fees or charges in each of their respective areas should be continued, increased, decreased, or eliminated. Cabinet will review fee proposals prior to submitting them to the Board of Governors for final approval.

Publication of Fees:

The posting of the approved fee schedule on the CSU Pueblo website constitutes notice regarding the fees.

Assessment of Fees:

Fees are assessed and collected through normal accounting procedures. No fees shall be paid directly to academic or non-academic departments or individuals unless specifically authorized. Fees may be prorated for part-time students only if stated in the proposal for the fee.

Itemization of Fees on Billing Statement:

Fees are separately identified on the University's student billing statement.

Assessing General and Administrative Costs:

Each fee shall be accounted for in the appropriate account for the type of activity associated with the fee. Fees associated with Enterprises or maintained in a separate fund shall be assessed the University's standard General and Administrative (indirect cost) assessment.

Fees Related to Bond Issues or Specific University Sponsored Programs:

Fees related to bond issues or specific University sponsored programs that are administered by University officials, will be allocated by the Chief Financial Officer with the approval of the President prior to distribution of the Permanent Student Purpose Fee by the Student Fee Governing Board. Each of the specific University-sponsored programs is to have an advisory group consisting of a student majority, all of whom shall be approved by the ASG, and shall include an ASG member and faculty/staff representative(s). The advisory group will be responsible for budget review and recommendations to the Chief Financial Officer. If an advisory group is not functional due to unavailability of students, the Director of the specific University-sponsored programs will submit the budget to the Chief Financial Officer.

Viewpoint Neutral Criteria Related to Non-University-sponsored Programs and University Chartered Clubs and Organizations:

Non-University-sponsored programs and University chartered clubs and organizations must submit allocation requests to the SFGB for review. All decisions made by the SFGB are subject to approval by the Chief Financial Officer and the President.

The following viewpoint neutral criteria are to be used to determine the funding of the various programs/organizations:

- The program/organization provides a service or adds value to the University student community in relationship to the program's/organization's purpose;
- The program/organization has fixed expenses, such as staff, office expenses, equipment, etc.;
- The program/organization adheres to a planned budget and is accountable for its expenses and also demonstrates familiarity with applicable laws, including but not limited to those laws that apply to expenditures and use of state money;
- The program/organization presents a budget with adequate justification for the upcoming fiscal year;

Any further allocations of funds must also meet viewpoint neutral criteria.

6. COMPLAINT RESOLUTION PROCEDURE

Any student who wishes to request a financial statement of a specific student fee account in which income and expenses are detailed must make such a written request to the Chief Financial Officer.

Appealing Recommendations made by the SFGB and/or the ASG Senate:

Any affected individual or program/organization may appeal the allocation decision of the SFGB and/or ASG Senate to the Chief Financial Officer. Any appeal of an allocation decision must be made in writing within five working days from the date of the letter notifying the individual/program/organization of the SFGB recommendation. Within five working days of receipt of the appeal, the Chief Financial Officer, in consultation with a representative of the ASG, the Provost, and the Senior Student Affairs Officer, will issue a written decision regarding the appeal. The Chief Financial Officer has the authority to void the decision made by the SFGB and/or ASG Senate and may remand it back to the appropriate body for reconsideration.

Appealing Individual Charges on a Student Account:

Any student who is seeking a fee or charge waiver or has a complaint that fees or charges have been assessed against her/him inappropriately may file a written request for review with the University Controller. Such requests will be addressed through a Review Board comprised of the University Controller and two students appointed by the ASG. The recommendation of this Board will be forwarded to the Chief Financial Officer, who will make the final decision on any complaint or appeal.

7. SPECIAL CONSIDERATIONS FOR REFUNDS IN TIMES OF EMERGENCY

In times of emergency, certain students (e.g., those in reserve military units, individuals with specialized skills, or firefighters) are called to provide services to the country.

Normal refund, grading, and withdrawal policies may not be applicable in such situations, and CSU Pueblo procedures comply with CCHE Section VI, Part C, 2.03.

Approval – Amendment to Cash Funds List



**Board of Governors of the
Colorado State University System
Meeting Date: October 5-6, 2023
Action Item**

MATTER FOR ACTION:

Approval of the amended FY 23-24 2-year Cash List for CSU

RECOMMENDED ACTION:

MOVED, that the Board of Governors approve the attached amended FY 23-24 2-year cash list for CSU.

FURTHER, that staff is authorized to submit any and all documents required by the Department of Higher Education, Governor’s Office, and General Assembly.

EXPLANATION:

Presented by Brendan Hanlon, Chief Financial Officer, Colorado State University System.

The state 2-year cash list is being amended to add:

- Allison Hall Additions and Renovations
- Durward Hall Window Replacement

This item is recommended by the Board of Governors Audit and Finance Committee.

Approved

Denied

Board Secretary

Date

CSU Fort Collins FY 23-24 2-year cash list amendment

9/21/2023

Campus	Project Name	Cash Funds	BOG program plan approval
CSU	Allison Hall Additions and Renovations	\$82.1M	Pending
CSU	Durward Hall Window Replacement	\$15M	NA

Approval – Plan of Finance Allison Hall



**Board of Governors of the
Colorado State University System
Meeting Date: October 5-6, 2023
Action Item**

MATTER FOR ACTION:

Approval of the Colorado State University Plan of Finance for the Allison Hall Additions and Renovations.

RECOMMENDED ACTION:

MOVED, that the Board of Governors of the Colorado State University System approves the Plan of Finance for the Allison Hall Additions and Renovations.

EXPLANATION:

Presented by Brendan Hanlon, Vice President for University Operations.

The Allison project will include an addition to and renovation of the existing 91,600 gsf of Allison Hall. This residence hall is located on the north side of main campus, directly adjacent to the College of Business. HDS intends to fully renovate the existing building to address all deferred maintenance and to bring Allison Hall in alignment with our standards for quality, inclusivity, and healthy, functional spaces that are critical to student success. As part of the renovation, HDS anticipates incorporating an exciting option to partner with the College of Business to create space for an entrepreneurship and innovation academic program and associated living/learning community.

Plan of Finance

The estimated budget for the base scope of work is \$82.1M, with funding from bonds supported by HDS resources. New space will add between 200 - 250 new beds, for a total of 600 – 650 beds to accommodate anticipated future enrollment growth. The revenue generated from the new beds as well as future rate increases (3-4% estimated annually) will provide the revenue needed to support the debt service payments for the housing and dining scope of this project included in the residential wings and center building complex. The proforma for HDS that includes the financing of this project is a companion document to this Action Item that demonstrates the financial capacity to support this project. Additional funding above the \$82.1M will be provided by donors and the colleges for the Center for Entrepreneurship. Once approvals are in place the project is estimated to take 42 months to complete.

Allison Hall Plan of Finance

**Board of Governors of the
Colorado State University System
Meeting Date: October 5-6, 2023
Action Item**

**SUMMARY OF PROGRAM PLAN FOR THE ALLISON HALL ADDITIONS AND
RENOVATIONS**

This project will include an addition to and renovation of the existing 91,600 gsf Allison Hall. New space will add 200 - 250 new beds to accommodate anticipated future enrollment growth. HDS intends to fully renovate the existing building to address all deferred maintenance, including all new mechanical, plumbing, electrical, utilities, and IT systems and to bring Allison Hall in alignment with our standards for quality, inclusivity, and healthy spaces that are critical to student success. Additional program requirements include a small dining facility/retail food service space, renovations to accommodate all-gender bathrooms in the resident wings, reception space, building services support spaces, and office and living space for HDS staff, renovation of the existing building center section for the Center for Entrepreneurship, and other multi-purpose/flexible space to meet the programmatic needs of HDS and the Entrepreneurship Living Learning community.

Allison Hall was built in 1958 and has not received major renovations/upgrades since that time. It currently houses approximately 400 residents and needs a full renovation to include modernized resident rooms and bathrooms, upgraded student and staff support space, upgraded building envelope and new mechanical systems including air conditioning, plumbing, electrical, utilities, and IT systems. Deferred maintenance was estimated at \$22M from a facilities condition assessment completed in 2018. A structural assessment completed in 2023 determined that two floors could be added to the wings of the building and one floor could be added to the center section with minor modifications to the existing structural components of the building.

CSU anticipates a Design Build with GMP project delivery with an estimated total development cost budget of \$82.1M for the base scope of work. Once approvals are in place the entire project is expected to take 42 months to complete. While Allison Hall is off-line Summer 2025 through Summer 2027, Housing & Dining Services will be able to accommodate all first-year students through full occupation of current spaces in other buildings, managing the number of transfer students living on campus, managing the number of returning students living on campus, and adding additional beds in current facilities, if needed.

Approved

Denied

Board Secretary

Date

Colorado State University Housing and Dining Services Projections for Renovations to Durward Hall, Com								
	FY36 Projected	FY37 Projected	FY38 Projected	FY39 Projected	FY40 Projected	FY41 Projected	FY42 Projected	FY43 Projected
Occupancy Rate - Percent of Assignable Capacity (Apartments at 87% unless stated otherwise)	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	-	-	-	-	-	-	-	-
Revenues								
Room & Board Rate Increase	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Average Apartment Rate and Other Increases	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Gross Revenue	167,105,000	172,146,000	177,194,000	182,539,000	187,895,000	193,562,000	199,245,000	205,253,000
Current Year Increase due to Beds Online	-	-	-	-	-	-	-	-
Current Year Decrease due to Beds Offline	-	-	-	-	-	-	-	-
Interdepartment & Interauxiliary Credits	9,686,000	9,976,000	10,276,000	10,584,000	10,901,000	11,228,000	11,565,000	11,912,000
Total Revenue	176,791,000	182,122,000	187,470,000	193,123,000	198,796,000	204,790,000	210,810,000	217,165,000
Expenses								
Percent Increase	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Gross Operating Expenses without Repair and Replacement	130,708,000	134,629,000	138,668,000	142,828,000	147,113,000	151,527,000	156,072,000	160,755,000
Current Year Increase due to Beds Online	-	-	-	-	-	-	-	-
Current Year Decrease due to Beds Offline	-	-	-	-	-	-	-	-
Total Expense	130,708,000	134,629,000	138,668,000	142,828,000	147,113,000	151,527,000	156,072,000	160,755,000
Net Revenue (Expense)	46,083,000	47,493,000	48,802,000	50,295,000	51,683,000	53,263,000	54,738,000	56,410,000
Debt Service								
Current Debt Service	13,744,000	13,753,000	13,772,000	12,338,000	12,142,000	10,511,000	10,493,000	7,374,000
New Debt Service	7,762,000	7,762,000	7,762,000	7,762,000	7,762,000	7,762,000	7,762,000	7,762,000
	-	-	-	-	-	-	-	-
Total Debt Service	21,506,000	21,515,000	21,534,000	20,100,000	19,904,000	18,273,000	18,255,000	15,136,000
Repairs and Replacement (Projected years include deferred maintenance spending and cash funded improvements)	16,000,000	18,000,000	20,000,000	22,000,000	22,000,000	23,000,000	23,000,000	25,000,000
Net Increase / (Decrease) to Fund Balance	8,577,000	7,978,000	7,268,000	8,195,000	9,779,000	11,990,000	13,483,000	16,274,000
Debt Service Ratios								
Debt Service Coverage (Ratio between Net Revenue before R&R to total Debt Service)	2.14	2.21	2.27	2.5	2.6	2.91	3	3.73
Debt Service Coverage (Ratio between Net Revenue with R&R to total Debt Service)	1.40	1.37	1.34	1.41	1.49	1.66	1.74	2.08

RESIDENCE LIFE, APARTMENT LIFE AND DINING CALCULATION WORKSHEET

USE LV COMMUNITY DOUBLES RATE FOR RENOVATED COMMUNITY HALLS

ASSUMPTIONS	Adjustments	Total Capacity	Estimated Cost	Bond payments start when beds are back online.
FY24 Assignable Capacity		6609		
FY25 Durward Offline	-495	6114	\$15,000,000	
FY26 Durward back on line	495	6609		\$916,060
FY26 Allison Offline	-400	6209	\$82,100,000	
FY28 Allison Back Online with 600-650 beds	625	6834		\$5,013,900
FY28 LV Offline for HVAC - \$15m per building	-660	6174	\$30,000,000	
FY29 LV Back Online	660	6834		\$1,832,120
Revenue Increase	see Rates Tab			
Use LV community doubles rate for renovated community style halls				
Expense Increase	see Expenses from B&D tab - Prepared by Brailsford & Dunlavey Consultants in 2022			
Dining Expenses 65% of Revenue	65%			
Occupancy rate	90%-93%			
Annual average revenue increase for residence hall room & board	FY25-31	4%		
Annual average revenue increase for apartment rates and other revenue	FY25-31	4%		
Annual average revenue increase for residence hall room & board	FY32-43	3%		
Annual average revenue increase for apartment rates and other revenue	FY32-43	3%		
Annual operating expense increase		3%		
Bond Interest Rate		4.5%		

COLORADO STATE UNIVERSITY
HOUSING SYSTEM
RESIDENCE HALL PROPOSED SEMESTER RATES
FOR ACADEMIC YEAR 2023-24

					4%	4%	4%	4%	4%	4%	4%	3%
	2022-23	2023-24	2023-24	Percent								
<u>ROOM TYPE AND RESIDENCE HALL</u> ¹	<u>Approved Rate</u>	<u>Proposed Change</u>	<u>Proposed Rate</u>	<u>Change</u>	<u>FY25</u>	<u>FY26</u>	<u>FY27</u>	<u>FY28</u>	<u>FY29</u>	<u>FY30</u>	<u>FY31</u>	<u>FY32</u>
Community Style Double, Triple, or Quad (Allison, Durward, Edwards, Ingersoll, Newsom, Westfall)	\$3,250	\$165	\$3,415	5.1%	\$3,552	\$3,694	\$3,841	\$3,995	\$4,155	\$4,321	\$4,494	\$4,629
Community Style Economy Double (LV)	n/a		\$3,415	-	\$3,552	\$3,694	\$3,841	\$3,995	\$4,155	\$4,321	\$4,494	\$4,629
Suite Style Economy Double (Braiden 4th Floor, Parmelee 4th Floor, Summit)	n/a		\$3,675	-	\$3,822	\$3,975	\$4,134	\$4,299	\$4,471	\$4,650	\$4,836	\$4,981
Community Style Double (LV)	\$3,600	\$180	\$3,780	5.0%	\$3,931	\$4,088	\$4,252	\$4,422	\$4,599	\$4,783	\$4,974	\$5,123
Suite Style Double (Braiden, Corbett, Parmelee)	\$3,865	\$195	\$4,060	5.0%	\$4,222	\$4,391	\$4,567	\$4,750	\$4,940	\$5,137	\$5,343	\$5,503
Community Style Single (Durward, Westfall)	\$4,110	\$205	\$4,315	5.0%	\$4,488	\$4,667	\$4,854	\$5,048	\$5,250	\$5,460	\$5,678	\$5,849
Suite Style Double (Braiden 4th Floor)	\$4,215	\$255	\$4,470	6.0%	\$4,649	\$4,835	\$5,028	\$5,229	\$5,438	\$5,656	\$5,882	\$6,059
Suite Style Double (Parmelee 4th Floor, Summit)	\$4,255	\$215	\$4,470	5.1%	\$4,649	\$4,835	\$5,028	\$5,229	\$5,438	\$5,656	\$5,882	\$6,059
Suite Style Double w/ Private Bath (AV, LV)	\$4,345	\$215	\$4,560	4.9%	\$4,742	\$4,932	\$5,129	\$5,335	\$5,548	\$5,770	\$6,001	\$6,181
Suite Style Double in Quad w/ Private Bath (AV)	\$4,345	\$215	\$4,560	4.9%	\$4,742	\$4,932	\$5,129	\$5,335	\$5,548	\$5,770	\$6,001	\$6,181
Suite Style Single (Braiden, Corbett, Parmelee)	\$4,345	\$215	\$4,560	4.9%	\$4,742	\$4,932	\$5,129	\$5,335	\$5,548	\$5,770	\$6,001	\$6,181
Community Style Single (LV)	\$4,575	\$230	\$4,805	5.0%	\$4,997	\$5,197	\$5,405	\$5,621	\$5,846	\$6,080	\$6,323	\$6,513
Suite Style Single (Braiden 4th Floor)	\$5,415	\$315	\$5,730	5.8%	\$5,959	\$6,198	\$6,445	\$6,703	\$6,971	\$7,250	\$7,540	\$7,766
Suite Style Single (LV, Parmelee 4th Floor, Summit)	\$5,455	\$275	\$5,730	5.0%	\$5,959	\$6,198	\$6,445	\$6,703	\$6,971	\$7,250	\$7,540	\$7,766
Suite Style Single in Quad (LV)	\$5,455	\$275	\$5,730	5.0%	\$5,959	\$6,198	\$6,445	\$6,703	\$6,971	\$7,250	\$7,540	\$7,766
Suite Style Single w/ Private Bath (AV, LV)	\$5,710	\$285	\$5,995	5.0%	\$6,235	\$6,484	\$6,744	\$7,013	\$7,294	\$7,586	\$7,889	\$8,126
Double as Single					avg LV	\$5,092	\$5,296	\$5,508	\$5,728	\$5,957	\$6,196	\$6,443
Triple as Double												
					4%	4%	4%	4%	4%	4%	4%	4%
<u>Dining Services Meal Options</u> ²	<u>Approved Rate</u>	<u>Proposed Change</u>	<u>Proposed Rate</u>	<u>Percent Change</u>	<u>FY25</u>	<u>FY26</u>	<u>FY27</u>	<u>FY28</u>	<u>FY29</u>	<u>FY30</u>	<u>FY31</u>	<u>FY32</u>
Any 19	\$3,430	\$175	\$3,605	5.1%	\$3,749	\$3,899	\$4,055	\$4,217	\$4,386	\$4,561	\$4,744	\$4,934
Any 15	\$3,205	\$165	\$3,370	5.1%	\$3,505	\$3,645	\$3,791	\$3,942	\$4,100	\$4,264	\$4,435	\$4,612
Any 10	\$2,475	\$125	\$2,600	5.1%	\$2,704	\$2,812	\$2,925	\$3,042	\$3,163	\$3,290	\$3,421	\$3,558
Exemption Plan	\$1,420	\$70	\$1,490	4.9%	\$1,550	\$1,612	\$1,676	\$1,743	\$1,813	\$1,885	\$1,961	\$2,039

COLORADO STATE UNIVERSITY
HOUSING SYSTEM
RESIDENCE HALL PROPOSED SEMESTER RATES
FOR ACADEMIC YEAR 2023-24

					3%	3%	3%	3%	3%	3%	3%	3%
	2022-23	2023-24	2023-24	Percent								
<u>ROOM TYPE AND RESIDENCE HALL</u> ¹	<u>Approved Rate</u>	<u>Proposed Change</u>	<u>Proposed Rate</u>	<u>Change</u>	<u>FY33</u>	<u>FY34</u>	<u>FY35</u>	<u>FY36</u>	<u>FY37</u>	<u>FY38</u>	<u>FY39</u>	<u>FY40</u>
Community Style Double, Triple, or Quad (Allison, Durward, Edwards, Ingersoll, Newsom, Westfall)	\$3,250	\$165	\$3,415	5.1%	\$4,768	\$4,911	\$5,058	\$5,210	\$5,366	\$5,527	\$5,693	\$5,864
Community Style Economy Double (LV)	n/a		\$3,415	-	\$4,768	\$4,911	\$5,058	\$5,210	\$5,366	\$5,527	\$5,693	\$5,864
Suite Style Economy Double (Braiden 4th Floor, Parmelee 4th Floor, Summit)	n/a		\$3,675	-	\$5,131	\$5,284	\$5,443	\$5,606	\$5,774	\$5,948	\$6,126	\$6,310
Community Style Double (LV)	\$3,600	\$180	\$3,780	5.0%	\$5,277	\$5,435	\$5,599	\$5,766	\$5,939	\$6,118	\$6,301	\$6,490
Suite Style Double (Braiden, Corbett, Parmelee)	\$3,865	\$195	\$4,060	5.0%	\$5,668	\$5,838	\$6,013	\$6,194	\$6,379	\$6,571	\$6,768	\$6,971
Community Style Single (Durward, Westfall)	\$4,110	\$205	\$4,315	5.0%	\$6,024	\$6,205	\$6,391	\$6,583	\$6,780	\$6,984	\$7,193	\$7,409
Suite Style Double (Braiden 4th Floor)	\$4,215	\$255	\$4,470	6.0%	\$6,240	\$6,428	\$6,620	\$6,819	\$7,024	\$7,234	\$7,451	\$7,675
Suite Style Double (Parmelee 4th Floor, Summit)	\$4,255	\$215	\$4,470	5.1%	\$6,240	\$6,428	\$6,620	\$6,819	\$7,024	\$7,234	\$7,451	\$7,675
Suite Style Double w/ Private Bath (AV, LV)	\$4,345	\$215	\$4,560	4.9%	\$6,366	\$6,557	\$6,754	\$6,956	\$7,165	\$7,380	\$7,601	\$7,829
Suite Style Double in Quad w/ Private Bath (AV)	\$4,345	\$215	\$4,560	4.9%	\$6,366	\$6,557	\$6,754	\$6,956	\$7,165	\$7,380	\$7,601	\$7,829
Suite Style Single (Braiden, Corbett, Parmelee)	\$4,345	\$215	\$4,560	4.9%	\$6,366	\$6,557	\$6,754	\$6,956	\$7,165	\$7,380	\$7,601	\$7,829
Community Style Single (LV)	\$4,575	\$230	\$4,805	5.0%	\$6,708	\$6,909	\$7,117	\$7,330	\$7,550	\$7,777	\$8,010	\$8,250
Suite Style Single (Braiden 4th Floor)	\$5,415	\$315	\$5,730	5.8%	\$7,999	\$8,239	\$8,487	\$8,741	\$9,003	\$9,274	\$9,552	\$9,838
Suite Style Single (LV, Parmelee 4th Floor, Summit)	\$5,455	\$275	\$5,730	5.0%	\$7,999	\$8,239	\$8,487	\$8,741	\$9,003	\$9,274	\$9,552	\$9,838
Suite Style Single in Quad (LV)	\$5,455	\$275	\$5,730	5.0%	\$7,999	\$8,239	\$8,487	\$8,741	\$9,003	\$9,274	\$9,552	\$9,838
Suite Style Single w/ Private Bath (AV, LV)	\$5,710	\$285	\$5,995	5.0%	\$8,369	\$8,621	\$8,879	\$9,146	\$9,420	\$9,702	\$9,994	\$10,293
Double as Single				avg LV	\$6,836	\$7,041	\$7,252	\$7,470	\$7,694	\$7,925	\$8,162	\$8,407
Triple as Double					4%	4%	4%	4%	4%	4%	4%	4%
<u>Dining Services Meal Options</u> ²	<u>Approved Rate</u>	<u>Proposed Change</u>	<u>Proposed Rate</u>	<u>Percent Change</u>	<u>FY33</u>	<u>FY34</u>	<u>FY35</u>	<u>FY36</u>	<u>FY37</u>	<u>FY38</u>	<u>FY39</u>	<u>FY40</u>
Any 19	\$3,430	\$175	\$3,605	5.1%	\$5,131	\$5,336	\$5,550	\$5,772	\$6,003	\$6,243	\$6,492	\$6,752
Any 15	\$3,205	\$165	\$3,370	5.1%	\$4,797	\$4,988	\$5,188	\$5,395	\$5,611	\$5,836	\$6,069	\$6,312
Any 10	\$2,475	\$125	\$2,600	5.1%	\$3,701	\$3,849	\$4,003	\$4,163	\$4,329	\$4,502	\$4,682	\$4,870
Exemption Plan	\$1,420	\$70	\$1,490	4.9%	\$2,121	\$2,206	\$2,294	\$2,386	\$2,481	\$2,580	\$2,683	\$2,791

Colorado State University
Housing System Proforma
Option C - Allison Hall Repurpose + 200 New Beds

Items in Blue Font were Added by HDS

Proforma Year (Fall)	2022	2023	2024	2025
Operating Capacity	7,987	7,566	7,987	7,670
Occupants	7,372	7,036	7,428	7,133
Occupancy	92%	93%	93%	93%
Revenue				
External Revenue				
Student Room Rent Revenue	\$ 53,393,000	\$ 54,605,000	\$ 58,925,800	\$ 59,208,800
Interauxiliary Credits	\$ 2,494,400	\$ 2,482,700	\$ 2,636,400	\$ 2,598,700
Interdepartment Credits	\$ 1,515,000	\$ 1,550,600	\$ 1,606,900	\$ 1,647,300
Other Revenue	\$ 160,700	\$ 152,500	\$ 168,900	\$ 160,100
Non-Building Specific Revenue	\$ 1,070,000	\$ 1,044,000	\$ 1,135,000	\$ 1,122,000
Total Revenue	\$ 58,600,000	\$ 59,800,000	\$ 64,500,000	\$ 64,700,000
<i>Per Bed</i>	<i>\$ 7,300</i>	<i>\$ 7,900</i>	<i>\$ 8,100</i>	<i>\$ 8,400</i>
Expenses				
Compensation	\$ 1,414,000	\$ 2,032,000	\$ 2,172,000	\$ 1,912,000
General Expenses	\$ 8,304,000	\$ 8,199,000	\$ 8,810,000	\$ 8,736,000
Facilities	\$ 13,506,000	\$ 13,346,000	\$ 14,328,000	\$ 13,963,000
Non-Building Specific Expense	\$ 7,932,000	\$ 7,739,000	\$ 8,415,000	\$ 8,323,000
Total Expenses - 3% Annual Increase	\$ 31,200,000	\$ 31,300,000	\$ 33,700,000	\$ 32,900,000
<i>Per Bed</i>	<i>\$ 3,900</i>	<i>\$ 4,100</i>	<i>\$ 4,200</i>	<i>\$ 4,300</i>
Net Operating Income	\$ 27,400,000	\$ 28,500,000	\$ 30,800,000	\$ 31,800,000
Internal Allocations				
Admin Allocation	\$ 1,977,000	\$ 2,017,000	\$ 2,057,000	\$ 2,098,000
Tech Allocation	\$ 1,043,000	\$ 1,064,000	\$ 1,085,000	\$ 1,107,000
Project Spending Centrally Funded	\$ 12,627,000	\$ 12,880,000	\$ 13,138,000	\$ 13,400,000
Total Internal Allocations	\$ 15,647,000	\$ 15,961,000	\$ 16,280,000	\$ 16,605,000
W/O Project Spending				\$ 3,205,000
Per Bed Without Project Spending				\$ 449
EXP PER BED WITHOUT PROJECT SPENDING				\$ 4,749
<i>Per Bed</i>	<i>\$ 1,959</i>	<i>\$ 2,110</i>	<i>\$ 2,038</i>	<i>\$ 2,165</i>
Net Cash Flow Available for Debt Service	\$ 11,753,000	\$ 12,539,000	\$ 14,520,000	\$ 15,195,000
Debt Service				
Existing Housing Debt	\$ 11,025,000	\$ 11,402,000	\$ 11,021,000	\$ 11,026,000
New Housing Debt	\$ -	\$ -	\$ -	\$ -
Reno Housing Debt	\$ -	\$ -	\$ -	\$ -
Net Cash Flow	\$ 728,000	\$ 1,137,000	\$ 3,499,000	\$ 4,169,000
<i>DCR</i>	<i>1.07</i>	<i>1.10</i>	<i>1.32</i>	<i>1.38</i>
Beginning Fund Balance	\$5,000,000	\$5,728,000	\$6,865,000	\$10,364,000

Colorado State University
Housing System Proforma
Option C - Allison Hall Repurpose + 200 New Beds

Items in Blue Font were Added by HDS

Proforma Year (Fall)	2026	2027	2028	2029
Operating Capacity	7,670	8,175	8,175	8,175
Occupants	7,133	7,603	7,603	7,603
Occupancy	93%	93%	93%	93%
Revenue				
External Revenue				
Student Room Rent Revenue	\$ 61,577,400	\$ 68,051,700	\$ 70,773,700	\$ 73,604,800
Interauxiliary Credits	\$ 2,676,600	\$ 2,957,100	\$ 3,045,800	\$ 3,137,000
Interdepartment Credits	\$ 1,696,600	\$ 1,760,500	\$ 1,813,300	\$ 1,867,700
Other Revenue	\$ 164,700	\$ 193,500	\$ 199,400	\$ 205,500
Non-Building Specific Revenue	\$ 1,156,000	\$ 1,269,000	\$ 1,307,000	\$ 1,346,000
Total Revenue	\$ 67,300,000	\$ 74,200,000	\$ 77,100,000	\$ 80,200,000
<i>Per Bed</i>	<i>\$ 8,800</i>	<i>\$ 9,100</i>	<i>\$ 9,400</i>	<i>\$ 9,800</i>
Expenses				
Compensation	\$ 1,968,000	\$ 2,601,000	\$ 2,679,000	\$ 2,759,000
General Expenses	\$ 8,998,000	\$ 9,841,000	\$ 10,136,000	\$ 10,440,000
Facilities	\$ 14,382,000	\$ 16,157,000	\$ 16,642,000	\$ 17,141,000
Non-Building Specific Expense	\$ 8,573,000	\$ 9,412,000	\$ 9,694,000	\$ 9,985,000
Total Expenses - 3% Annual Increase	\$ 33,900,000	\$ 38,000,000	\$ 39,200,000	\$ 40,300,000
<i>Per Bed</i>	<i>\$ 4,400</i>	<i>\$ 4,600</i>	<i>\$ 4,800</i>	<i>\$ 4,900</i>
Net Operating Income	\$ 33,400,000	\$ 36,200,000	\$ 37,900,000	\$ 39,900,000
Internal Allocations				
Admin Allocation	\$ 2,140,000	\$ 2,183,000	\$ 2,227,000	\$ 2,271,000
Tech Allocation	\$ 1,129,000	\$ 1,152,000	\$ 1,175,000	\$ 1,198,000
Project Spending Centrally Funded	\$ 13,668,000	\$ 13,942,000	\$ 14,221,000	\$ 14,505,000
Total Internal Allocations	\$ 16,937,000	\$ 17,277,000	\$ 17,623,000	\$ 17,974,000
W/O Project Spending	\$ 3,269,000	\$ 3,335,000	\$ 3,402,000	\$ 3,469,000
Per Bed Without Project Spending	\$ 458	\$ 439	\$ 447	\$ 456
EXP PER BED WITHOUT PROJECT SPENDING	\$ 4,858	\$ 5,039	\$ 5,247	\$ 5,356
<i>Per Bed</i>	<i>\$ 2,208</i>	<i>\$ 2,113</i>	<i>\$ 2,156</i>	<i>\$ 2,199</i>
Net Cash Flow Available for Debt Service	\$ 16,463,000	\$ 18,923,000	\$ 20,277,000	\$ 21,926,000
Debt Service				
Existing Housing Debt	\$ 10,864,000	\$ 10,824,000	\$ 10,813,000	\$ 10,876,000
New Housing Debt	\$ -	\$ -	\$ -	\$ -
Reno Housing Debt	\$ -	\$ 3,672,556	\$ 3,672,556	\$ 3,672,556
Net Cash Flow	\$ 5,599,000	\$ 4,426,444	\$ 5,791,444	\$ 7,377,444
<i>DCR</i>	<i>1.52</i>	<i>1.31</i>	<i>1.40</i>	<i>1.51</i>
Beginning Fund Balance	\$14,533,000	\$20,132,000	\$24,558,444	\$30,349,887

Colorado State University
Housing System Proforma
Option C - Allison Hall Repurpose + 200 New Beds

3.0% Expense Inc
2.0% Internl Alloc Inc

Items in Blue Font were Added by HDS

Proforma Year (Fall)	2030	2031	2032	2033	2034	2035
Operating Capacity	8,175	8,175				
Occupants	7,603	7,603				
Occupancy	93%	93%				
Revenue						
External Revenue						
Student Room Rent Revenue	\$ 76,548,800	\$ 79,610,800				
Interauxiliary Credits	\$ 3,231,200	\$ 3,328,200				
Interdepartment Credits	\$ 1,923,800	\$ 1,981,700				
Other Revenue	\$ 211,800	\$ 217,800				
Non-Building Specific Revenue	\$ 1,387,000	\$ 1,428,000				
Total Revenue	\$ 83,300,000	\$ 86,600,000				
<i>Per Bed</i>	<i>\$ 10,200</i>	<i>\$ 10,600</i>				
Expenses						
Compensation	\$ 2,842,000	\$ 2,928,000				
General Expenses	\$ 10,753,000	\$ 11,076,000				
Facilities	\$ 17,655,000	\$ 18,185,000				
Non-Building Specific Expense	\$ 10,284,000	\$ 10,593,000				
Total Expenses - 3% Annual Increase	\$ 41,500,000	\$ 42,800,000				
<i>Per Bed</i>	<i>\$ 5,100</i>	<i>\$ 5,200</i>	\$ 5,356	\$ 5,517	\$ 5,682	\$ 5,853
Net Operating Income	\$ 41,800,000	\$ 43,800,000				
Internal Allocations						
Admin Allocation	\$ 2,317,000	\$ 2,363,000				
Tech Allocation	\$ 1,222,000	\$ 1,246,000				
Project Spending Centrally Funded	\$ 14,795,000	\$ 15,091,000				
Total Internal Allocations	\$ 18,334,000	\$ 18,700,000				
<i>W/O Project Spending</i>	<i>\$ 3,539,000</i>	<i>\$ 3,609,000</i>				
<i>Per Bed Without Project Spending</i>	<i>\$ 465</i>	<i>\$ 475</i>	\$ 484	\$ 494	\$ 504	\$ 514
EXP PER BED WITHOUT PROJECT SPENDING	\$ 5,565	\$ 5,675	\$ 5,840	\$ 6,011	\$ 6,186	\$ 6,366
<i>Per Bed</i>	<i>\$ 2,243</i>	<i>\$ 2,287</i>				
Net Cash Flow Available for Debt Service	\$ 23,466,000	\$ 25,100,000				
Debt Service						
Existing Housing Debt	\$ 10,875,000	\$ 10,877,000				
New Housing Debt	\$ -	\$ -				
Reno Housing Debt	\$ 3,672,556	\$ 3,672,556				
Net Cash Flow	\$ 8,918,444	\$ 10,550,444				
<i>DCR</i>	<i>1.61</i>	<i>1.73</i>				
Beginning Fund Balance	\$37,727,331	\$46,645,774				

Colorado State University
Housing System Proforma
Option C - Allison Hall Repurpose + 200 New Beds

Items in Blue Font were Added by HDS

Proforma Year (Fall)	2036	2037	2038	2039	2040
Operating Capacity					
Occupants					
Occupancy					
Revenue					
External Revenue					
Student Room Rent Revenue					
Interauxiliary Credits					
Interdepartment Credits					
Other Revenue					
Non-Building Specific Revenue					
Total Revenue					
<i>Per Bed</i>					
Expenses					
Compensation					
General Expenses					
Facilities					
Non-Building Specific Expense					
Total Expenses - 3% Annual Increase					
<i>Per Bed</i>	\$ 6,028	\$ 6,209	\$ 6,395	\$ 6,587	\$ 6,785
Net Operating Income					
Internal Allocations					
Admin Allocation					
Tech Allocation					
Project Spending Centrally Funded					
Total Internal Allocations					
<i>W/O Project Spending</i>					
<i>Per Bed Without Project Spending</i>	\$ 524	\$ 535	\$ 545	\$ 556	\$ 567
EXP PER BED WITHOUT PROJECT SPENDING	\$ 6,552	\$ 6,744	\$ 6,941	\$ 7,143	\$ 7,352
<i>Per Bed</i>					
Net Cash Flow Available for Debt Service					
Debt Service					
Existing Housing Debt					
New Housing Debt					
Reno Housing Debt					
Net Cash Flow					
<i>DCR</i>					
Beginning Fund Balance					

Main financial statement table with multiple columns for 'Period', 'Total', 'Net', 'Gross', and 'Net' across various categories.

Summary table with columns for 'Period', 'Total', 'Net', 'Gross', and 'Net' for various categories.

Summary table with columns for 'Period', 'Total', 'Net', 'Gross', and 'Net' for various categories.

Summary table with columns for 'Period', 'Total', 'Net', 'Gross', and 'Net' for various categories.

Summary table with columns for 'Period', 'Total', 'Net', 'Gross', and 'Net' for various categories.



Main data table with columns for 'Age Group: 18-24 (M/F)', 'Age Group: 25-34 (M/F)', 'Age Group: 35-44 (M/F)', 'Age Group: 45-54 (M/F)', 'Age Group: 55-64 (M/F)', 'Age Group: 65-74 (M/F)', 'Age Group: 75-84 (M/F)', 'Age Group: 85+ (M/F)'. Each column contains multiple rows of numerical data.

Summary table with columns for 'Age Group: 18-24 (M/F)', 'Age Group: 25-34 (M/F)', 'Age Group: 35-44 (M/F)', 'Age Group: 45-54 (M/F)', 'Age Group: 55-64 (M/F)', 'Age Group: 65-74 (M/F)', 'Age Group: 75-84 (M/F)', 'Age Group: 85+ (M/F)'. Each column contains a single row of numerical data.

Summary table with columns for 'Age Group: 18-24 (M/F)', 'Age Group: 25-34 (M/F)', 'Age Group: 35-44 (M/F)', 'Age Group: 45-54 (M/F)', 'Age Group: 55-64 (M/F)', 'Age Group: 65-74 (M/F)', 'Age Group: 75-84 (M/F)', 'Age Group: 85+ (M/F)'. Each column contains a single row of numerical data.

9/6/23, 9:50 AM

Amortization calculator | Amortization Schedule Calculator

Amortization Schedule generated by the www.amortization-schedule.info website.

Amortization Schedule

The **semi-annually payment** for a **\$15,000,000.00** loan at **4.50% anual interest rate** will be **\$458,029.91 per payment**. This amount should be paid to the lender, bank or lending institution for **30 years**. The loan amortization table below shows your monthly payment divided into two portions. One portion is put towards interest (**interest paid**), while the other portion goes towards principal (**principal paid**). As you can see, initially a larger amount is applied towards interest and as the loan matures the portion applied towards the outstanding principal balance gets larger and larger.

9/6/23, 9:49 AM

Amortization calculator | Amortization Schedule Calculator

Amortization Schedule generated by the www.amortization-schedule.info website.

Amortization Schedule

The **semi-annually payment** for a **\$82,100,000.00** loan at **4.5% anual interest rate** will be **\$2,506,950.39 per payment**. This amount should be paid to the lender, bank or lending institution for **30 years**. The loan amortization table below shows your monthly payment divided into two portions. One portion is put towards interest (**interest paid**), while the other portion goes towards principal (**principal paid**). As you can see, initially a larger amount is applied towards interest and as the loan matures the portion applied towards the outstanding principal balance gets larger and larger.

9/6/23, 9:51 AM

Amortization calculator | Amortization Schedule Calculator

Amortization Schedule generated by the www.amortization-schedule.info website.

Amortization Schedule

The **semi-annually payment** for a **\$30,000,000.00** loan at **4.50% anual interest rate** will be **\$916,059.82 per payment**. This amount should be paid to the lender, bank or lending institution for **30 years**. The loan amortization table below shows your monthly payment divided into two portions. One portion is put towards interest (**interest paid**), while the other portion goes towards principal (**principal paid**). As you can see, initially a larger amount is applied towards interest and as the loan matures the portion applied towards the outstanding principal balance gets larger and larger.

CSU System Treasury



CSU System Treasury Performance

Colorado State University System									
Operating Portfolio									
June 30, 2023									
	Market Value	Market Value	Market Value	Market Value	Unrealized		Returns		
	June 30, 2022	Dec 31, 2022	March 31, 2023	June 30, 2023	Gain/Loss Since	Realized Gains	Last	Last	Last
					Inception		Quarter	6 months	Year
Tier 1									
State Treasury Pool *	448,319,106	302,177,291	415,414,683	289,250,401			3.41%	3.23%	2.79%
Less scoop and toss cash ⁽¹⁾	(152,983,972)	(561,644)	(53,061,916)	(53,667,615)					
State Treasury Pool Actual	295,335,134	301,615,648	362,352,767	235,582,786					
US Treasuries ⁽¹⁾									
Money Market Funds	61,289,392	61,878,168	62,504,354	63,193,000			1.20%	2.26%	3.44%
3-mo T-Bill							1.17%	2.25%	3.59%
Tier 2									
Separately Managed - BBH	56,895,089	56,614,299	55,611,583	55,815,859	815,859	2,000,000	0.42%	2.27%	1.89%
Bloomberg Gov/Cred 1-5 Yr							-0.62%	1.19%	0.19%
Tier 3									
Fidelity 500 Index	101,599,898	103,936,274	103,442,630	112,476,078	40,276,078	8,000,000	8.73%	16.97%	19.66%
S&P 500 Index							8.74%	16.89%	19.59%
Vanguard Extended Market Index	27,710,440	28,333,184	29,990,618	31,928,761	7,828,761		6.46%	12.69%	15.22%
Vanguard Spliced Ext Mkt Index							6.40%	12.57%	15.01%
Vanguard Total Intl Stock Index	72,502,726	74,428,724	79,378,923	81,450,436	12,850,436		2.61%	9.43%	12.34%
Vanguard Spliced Intl Index							2.53%	9.12%	12.51%
Separately Managed - PGIM	102,377,433	99,296,772	102,268,714	101,810,917	1,710,917		-0.38%	2.96%	-0.05%
Bloomberg Aggregate							-0.84%	2.09%	-0.94%
Total Operating Less State Treasury Pool	\$ 422,374,978	\$ 424,487,420	\$ 433,196,822	\$ 446,675,050	\$ 63,482,050	\$ 10,000,000	3.15%	7.85%	8.45%
Total Operating Portfolio	\$ 717,710,112	\$ 726,103,068	\$ 795,549,589	\$ 682,257,836	\$ 63,482,050	\$ 10,000,000			
Less \$21M Rural Colorado and Student Success Initiatives (\$8.5M funded to date)					(12,500,000)				
Less \$1.5M Presidential Separation (funded March 2023)					-				
Less Interest Earnings Distributed to Institutions (CSU, Global and System)					(26,267,209)				
Total Undistributed Gain/Loss					\$ 24,714,841				
*Return represents "net credit rate" from State Treasury Pool									
⁽¹⁾ \$175M of scoop and toss cash invested in a Treasury Note in November 2022									

Investment Objectives

- Maintain sufficient liquidity for daily and on-going operations of the University
- Preserve principle consistent with liquidity constraints, recognizing market fluctuations will cause value to change over time
- Control costs of administrating and implementing the portfolio
- Diversify investments
- Comply with requirements of the self-liquidity commercial paper program

Tier 1

- Daily operating Funds: Maturities of one year or less with high credit quality

Tier 2

- Contingency: Reserve or back-up assets if Tier 1 is insufficient. Investment grade securities with up to 5-year maturity

Tier 3

- Diversified: Represents the portion of cash that is not expected to be used within the near term



CSU System Treasury Update

- Operating Portfolio Performance less State Treasurer Pool (daily liquidity)
 - Market value as of June 30, 2023: \$446,675,050
 - 8.45% return for last year (July 2022 – June 2023)
 - 7.85% return for the last 6 months (January – June 2023)
 - 3.15% for last quarter (April – June 2023)
- The State Treasurer Pool distributed a “net credited rate” of 2.79% over the last year (July 2022 - June 2023). As of June 30, 2023, there was \$54M of scoop and toss cash at the State Treasury and \$175M invested in a T-Bill. Maturity of the \$229M scoop and toss debt is March 1, 2024.
- The portfolio has grown by \$73M in gains since inception, July 2018. Of the gains, \$10M was liquidated in FY23 to partially fund the Board of Governors’ initiatives for Rural Colorado and Student Success and the presidential separation of Joyce McConnell. The undistributed gains have been earmarked to fund the remainder of Rural and Student Success and interest distributions to the institutions. In FY24, \$25M has been liquidated to fund an HR System in FY25.
- Investment Advisory Committee
 - Last meeting: July 26, 2023
 - Reviewing an International Equity Manager – Callan has made a recommendation between 4 finalists to have ongoing discussion

Section 5

CSU Pueblo Reports

- CSU Pueblo Student Representative's Report
- CSU Pueblo Faculty Representative's Report
- CSU Pueblo President's Report



Colorado State University Pueblo
Associated Student' Government

Associated Student Government 2023

- Rich in conversation
- Breathes Excitement
- Diverse Team
- Campus Collaborative

Campus Events

- Welcome week success
- LINC Grand Opening
- HSI Week
- Packfest

ASG Accomplishments

- Advocation for student voices
- Campus Collaboration

More to Come

- Canvas Credit Union x ASG partnership
- Student Fee Committees Begins

CSU Pueblo Faculty Representative Report

October 5-6, 2023; Ft. Collins

Submitted by Jonathan P. Pluskota, Ph.D.

Report Completed 9/25/2023

Colleges, Schools, and Departments

1. Center for Honors and Leadership

- a. In June 2023, the Center for Honors and Leadership (CHL) collaborated with the Italian department to offer 15 students a 27-day study abroad experience in Turin, Italy. Students completed CSU Pueblo Honors, Italian, Music, and Social Work courses during their time in Italy, with weekday excursions throughout Turin and weekend excursions to Milan and the Italian wine country. Students were also able to arrange personal excursions to Rome, Venice, Positano, and Lake Ordo.
- b. In April 2023, the CSU Pueblo Center for Honors and Leadership brought 6 CSU Pueblo students to Fort Collins to explore CSU graduate programs in English and Occupational Therapy. The trip also provided an opportunity for a conversation between Honors programs at both institutions, with potential collaborations identified around study abroad and graduate school matriculation between campuses (specifically for graduate programs not offered at CSU Pueblo).
- c. Moving forward, the CHL and Italian department are hosting interest sessions with students in August and September 2023 to design and promote future study abroad opportunities and are excited to consider potential collaborative offerings across the system.

2. Department of English and World Languages

- a. Dr. Yvonne J. Montoya represented CSU Pueblo at the National Higher Education Teaching Conference in New York in June. Dr. Montoya also attended the Pedagogy & Theatre of the Oppressed conference and she presented her research on Teatro's Impact on the Chicana/o Movement at the Aztlan Grant Symposium.
- b. Assistant Professor of Creative Writing Darci Schummer released a novel entitled *The Ballad of Two Sisters* from Unsolicited Press on August 8, 2023. Other recent publications include poetry in *Boats Against the Current* and *Sky Island Journal* and flash fiction in *Flash Frog*.
- c. Distinguished Professor, Dr. Alegría Ribadeneira was invited as Lead Instructor for the National Heritage Language Resource Center Summer Workshop. The NHLRC, located in UCLA, offered a four-week workshop to heritage language teachers from around the nation. Ribadeneira designed the curriculum alongside Dr. Melissa Bowles from the University of Illinois. The select group of teachers who participated represented middle schools, high schools and universities.
- d. Professor Doug Eskew published an opinion piece in Inside Higher Ed in August. The piece titled, "Regional Comprehensive Universities: Separate and Unequal," argues that regional comprehensive universities should not be required to have their own budgets. Eskew points out that this requirement is part of the systemic oppression embedded in our institutional structure. In a time when diversity, equity, and inclusion are at the forefront of discourse on higher education, he argues, all our students must be treated equitably.

3. Department of History, Political Science, Philosophy & Religion

- a. The Political Science program, MBA program, and Extended Studies, and have partnered to offer a Public Management Emphasis within our online MBA degree. It has

CSUP FACULTY REP BOG REPORT

been in the works for the past couple of years, but this academic year we are building and offering the full cycle of public management courses. We have developed partnerships through the program with Action22 (a very active policy advocacy organization in southern Colorado), and Extended Studies has been active in promoting and marketing the program. We hope that this academic year, we can lay a strong base to have strong enrollment in this emphasis in the future.

4. Department of Social Work

- a. Dr. Pamela Richmond
 - i. Collaborating with Magistrates from Truancy Court in Pueblo, CO--two three-hour workshops (with Dr. Jenny Piazza, Teacher Education Program) conducted for court-ordered parents.
 - ii. Planned and organized all day activities for A Day of Remembrance (In-person)—to honor those that perished in the Holocaust. Activities were open to the CSU-P campus and the broader community on April 18, 2023. Funds from Academic Affairs Enhancement Initiative grant afforded CSU-P the opportunity to have a "live" guide facilitating a tour of the concentration camp Auschwitz-Birkenau in Poland. Audience participants were able to ask questions of the tour guide.
 - iii. Journal of Child & Youth Care Work Editorial Review Board Member.
- b. Dr. Trevor Gates-Crandall
 - i. Innes, P., & Gates, T. G. (2023). 'The Times They Are A-Changin': the shifting motivations for volunteering in rural Wide Bay–Burnett Queensland. *Rural Society*. <https://doi.org/10.1080/10371656.2023.2202014>
 - ii. Teaching at Semester-at-Sea for Fall 2023; just returned from Vietnam where he was a Fulbright Scholar in Spring 2023.
- c. Dr. Arlene Reilly-Sandoval
 - i. Reflections: Narratives of Professional Helping Editorial Review Board member and editor of the Teaching and Learning section.

5. Department of Media & Entertainment

- a. SOCO Student Media has been active in the community, working to bridge the gap between the university and the community. Since June, students and faculty have taken part in numerous activities to elevate the profile of the department:
 - i. Community Hip Hop Festival remote
 - ii. State Fair and Fiesta Day Parade – live stream broadcast from float
 - iii. State Fair remotes (6 evenings at the Fair)
- b. Experiential learning
 - i. Students from select courses assisted with live music for all 11 nights during the State Fair and Chile & Frijoles Fest.
 - ii. Students were joined by Rocky Mountain Public Media staff and talent, Alex Forsett and Unique, on a four hour promotional remote during Packfest 2023. They worked side-by-side with industry experts to hone their media and promotion skills.
- c. Colorado Press Association (CPA) and Community Journalism
 - i. Two students and four faculty recently attended the Colorado Media Project's 2023 Summit and the 2023 CPA Convention in Denver, September 21-23. The sessions focused heavily on AI and how to strengthen community journalism. Many ideas were discussed as to how higher education can support these initiatives to help protect the fourth estate and accurate information/news. CSU,

CSUP FACULTY REP BOG REPORT

as a system, may have a unique opportunity to be at the forefront of such collaboration.

Shared Governing Bodies**1. Faculty Senate****a. Reports**

- i. Faculty Senate completed its retreat in August. Faculty representatives have been assigned to their respective committees.
- ii. The first full Faculty Senate meeting will take place Monday September 25, 2023.

b. Academic Business

- i. During Faculty Senate's retreat, question arose as to how the Automotive Industry Management program still enrolled Freshman for this year even though the program was discontinued at the June 2023 BOG meeting.

c. Other

- i. Priorities for this year will focus on:
 1. faculty compensation and workload
 2. faculty handbook (an on-going issue)
 3. shared governance
 4. accountability of administration
 5. Overall campus climate and morale

2. Administrative Professional Council

- a. APC Awarded three \$1,000 scholarships to APC dependents or APC employees. They were focused on applicants who received no scholarship money. This year's goal is to raise \$3,000 in scholarship money from the Foundation's Give Day.
- b. 2023-24 Priorities
 - i. Complete a compensation analysis and create a plan which would bring all APC employees to market rate. The emphasis on pay equity has been in faculty and classified based on state bargaining. APC has seen no efforts to address pay equity. Having a plan to present to the new president, based on a full compensation analysis, will help with the salary and equity issues. Compensation is a real concern because we are losing good employees to other private sector employers in the area, the community colleges, and other universities that are paying better.
 - ii. APC's second priority is to address the hostile environment some of their employees face daily. This is a contributing factor to low morale and fear to speak up when the environment is hostile.

3. Classified Staff Council

- a. Classified Staff Council is prioritizing scholarships and fundraising for this year, with the goal being to double what they raised last year.

Concerns, Challenges, and Points of Emphasis**1. Shared Governance and Morale****2. Presidential Search**

- a. Faculty and staff have expressed significant concerns with the Presidential search being closed and confidential. Given the uniqueness of the campus and community, and current climate on-campus (top-down administration, bloated administrative positions, lack of resources from administration, disengagement, and poor pay and working

CSUP FACULTY REP BOG REPORT

conditions) they feel it is essential to at least have the final candidates meet with faculty and staff before a decision is made.

3. Faculty Compensation

- a. **Key faculty and administrators** met 18 September 2023 to discuss concerns with the “equity model”, peer institution comparison set, benchmarking faculty pay at (less than) the first quartile, and the overall equity gap. Two important points came out of the discussion.
 - i. 1. Regarding equity adjustments and pay, benchmarking faculty at “90% of the 25th percentile” of peers is unacceptable. Faculty and Senate are revising to the 50th percentile this year (Faculty Senate).
 - ii. 2. The overall equity gap will be significantly larger than what has been reported when using a more appropriate benchmark quartile.

4. Supplemental Pay

- a. Faculty have expressed concerns with recent reinterpretation of the supplemental pay policy. They feel there is a lack of understanding of what constitutes regular workload for faculty, and their extra efforts are not being supported, forcing them to disengage from proposed activities that would improve CSU Pueblo and the student experience.
 - i. For example, a proposal was approved last Spring for faculty to participate in a special series of workshops for “Leading from the Middle” where the group would subsequently produce a report on ways those in the middle can help the university realize future goals. Fifteen faculty from across campus signed up eager to contribute their extra time to this initiative. Recently, the Provost denied the proposed stipend citing HR policy, even though participation is beyond regular work requirements.

5. System Support

- a. **Inconsistent administration, policies, and messaging** - There have been several sudden changes by administrators that have impacted front-line operations and work for faculty and staff. Employees have stated that there is very little consistency or acknowledgement of previous processes, agreements, or consideration for shared governance. This inconsistency imperils initiatives to engage faculty and staff and risks further distancing employees.
- b. **\$2.59 Million** Quasi-Endowment – it was recently discovered that the quasi-endowment fund, which was set up from the sale of KTSC-TV to support the Mass Comm/Media program, its facilities, and students, was used by administration in 2019 (12/2018 BOG) to pay off old university debt, **without the department being notified or asked for input**. The use of the funds further decimated a department. The department of Media & Entertainment is requesting that the board replenish the endowment corpus and past-due interest in an equitable and fair manner before any more Vision 2028 funds are committed or spent.
- c. **Embarrassment** – a colleague expressed concern that their comments during public comment were referred to as “an embarrassment to the university” by the Provost. Those who express views during public comment, especially employees, should not feel pressured by administration in any capacity.
- d. The university faculty and staff need direct support from the system to improve morale and create a healthy campus, towards achieving all five goals of the CSU System.

6. HR & IT

- a. Processes & Basic Work Needs (CRAs, work tickets, response) continue to be a struggle for campus. Provost Mackin has investigated the issues and has made some progress, but problems remain.

CSUP FACULTY REP BOG REPORT

You're Invited

Experience the Pueblo community and our unique educational environment. Feel free to reach out to me - I'll be happy to host and take you on a tour around town and campus.

###



To: Colorado State University Board of Governors
 From: Dr. Timothy Mottet, President
 Subject: October 2023 President's Report

Expanding Our Appeal | Enhancing Student Success | Developing Our People

15 TAKE AWAYS

1. Total enrollment increased 3.6% year over year to 3,657 and freshman retention rate increased 2 percentage points to 65%.
2. Tuition revenues have increased \$491,052 year-over-year.
3. In 2022, Discovery Scholars engaged 77 students and 17 faculty members, and over 75% of these Discovery Scholars returned this year or graduated.
4. Dr. Gail Mackin began duties as the CSU Pueblo Provost and Executive Vice President for Academic Affairs on August 1.
5. Dr. William Donoher began as Dean of the Hasan School of Business (HSB) on July 1, 2023.
6. Associate Professor Roberto Mejias received a new NSF grant as a supplement to the existing \$2.5 Million NSF-STEM-HSI grant called "Project PUENTE: Partnerships in Undergraduate Education for New, Transferring Estudiantes".
7. Six new certificates are under review in the areas of Community Engagement, Industrial Cannabis, Transportation Engineering, and Transportation Management.
8. The Institute of Cannabis Research (ICR) hosted the Cannabis Research Conference (CRC) 2023 on the Auraria Campus from August 3rd – 5th. There were 338 attendees, which included 24 international participants.
9. Eligible employees across all employee types received salary increases of 5%. These increases were prioritized in the institution's budget, along with an additional \$400,000 earmarked for faculty equity adjustments.
10. In FY24, we are scheduled to shift all existing people and priorities on Vision 2028 funding to sustainable funding sources (a mix of E&G, Auxiliary, and Extended Studies). A full plan for Vision 2028's evolution will be presented as part of the FY23 Annual Report at the December 2023 BOG Meeting.
11. The General Classroom Building (GCB), closed due to a fire in July 2022, re-opened as of August 18, 2023 – in time for the first day of classes, August 21, 2023.
12. On August 14, 2023, CSU Pueblo welcomed new partners and donors, Canvas Credit Union, with the of the first southern Colorado branch location, inside the Occhiato Student Center.
13. The 2022-23 academic year was one of the most successful in Pack Athletics history! We had a record-high of 675 student-athletes in 21 varsity sports (student-athletes represent 24% of undergraduate enrollment). These individuals attained a combined 3.22 grade point average, which was also the highest in school history.
14. Of students referred to Pack CARES in Fall 2022, 73% were retained into Spring 2023, 50% of referrals were for first-generation students. In comparison, last year, 49% of referrals were retained into spring 2022 and 42% were first-generation students.
15. Student Engagement & Leadership had over 2,635 students to participate in events and activities, which included Orientation (860).

ENROLLMENT AND REVENUE

Total head count across undergraduate and graduate students increased to 3,657, which is a 3.6% increase year over year [See Table 1 below]. This is an important step towards moving our total enrollment to 4,000 students. Fall 2023 new student head count (including freshmen and transfer) was 982 students. Through the enrollment initiatives of Colorado Promise (new freshmen) and Pack Promise (continuing students), over 48 students demonstrated high financial need (family income of less than \$70,000) enrolled.

Graduate enrollment increased 12% year over year to 477 students. Graduate enrollment in Education continued to climb, with record enrollments in the M.Ed. program. Additionally, the Ed.D. program that started in Jan 2023 has 31 doctoral candidates.

CSU Pueblo's freshman retention rate is 65%, up two percentage points from last year.

Total tuition revenue projections at the top of the Fall Semester is tracking at \$12,582,282. This is an increase of \$755,099 (or 6%) from last year's actual tuition revenue from the same time last year. As expected, tuition revenue did decrease as we approached our census date. As of 9/11, tuition revenue sits at \$12,194,392. This is a \$491,052 year-over-year increase in tuition revenue from the previous fiscal year.

Table 1 - Fall Semester Census Enrollment, Fall 2019 through Fall 2023

	FA19	FA20	FA21	FA22	FA23	One-Year Change	
Change Student Credit Hours (RI Only)	45,536.50	41,472.00	36,062.50	35,612.50	35,817.00	204.50	0.57%
Student Credit Hours (ES Online)	1,883.00	4,512.00	4,855.00	6,038.00	6,594.00	556.00	9.21%
Headcount (RI & ES Online)	3,847	3,718	3,534	3,529	3,657	128	3.63%
Undergraduate	3,547	3,373	3,124	3,104	3,180	76	2.45%
Freshman	807	789	777	932	937	5	0.54%
Sophomore	633	604	534	501	579	78	15.57%
Junior	803	716	651	624	603	-21	-3.37%
Senior & Post Bach.	1,133	1,108	1,003	885	855	-30	-3.39%
NDS	171	156	159	162	206	44	27.16%
Graduate	300	345	410	425	477	52	12.24%
Masters & NDS	270	312	371	393	416	23	5.85%
Doctorate	30	33	39	32	61	29	90.63%
New Undergraduate	631	601	575	645	673	28	4.34%
Transfer Undergraduate	320	294	295	372	309	-63	-16.94%

FINANCIAL MANAGEMENT

With the addition of our new Chief Financial Officer—Mr. Garrison Ortiz—the Business Financial Services (BFS) department has rebranded itself as the Office of Financial Management or OFM and has overhauled its organizational structure. It has launched a comprehensive business process improvement (BPI) project to break down and re-engineer all business processes of the department. Early efforts have yielded positive results in eliminating bottlenecks, increased efficiencies, better segregation of duties, and overall enhanced performance of the department.

ACADEMIC AFFAIRS

Student Retention

Discovery Scholars is a program that encourages students to engage in scholarly activities with faculty. It is complimented by other campus programs (e.g., Mentoring Access and Platforms in STEM) to facilitate student



engagement in faculty mentored research. Last year, Discovery Scholars engaged 77 students and 17 faculty members, and over 75% of these Discovery Scholars returned this year or graduated. This year 72 students and 22 faculty mentors are already on board for Year 3 of the Discovery Scholar Program.

Tutoring and supplemental instruction expanded to additional disciplinary areas across campus to better serve our students. Visibility, scheduling, and communication for all tutoring centers was transitioned to our Starfish online platform. This placed it alongside student support information from faculty, advisors, financial aid counselors, and multiple student support offices to increase coordination for wrap-around encouragement and support for student success and retention.

Pack Center advising and coaching provided improved consistent onboarding of new students, re-envisioned student communication and Starfish flag management, and restructured their support for retention of at-risk students (under 2.0 GPA). Pack Center coaches also had an increased advising presence at enrollment extravaganza campus events as well as a community presence at high school recruiting events.

The Center for Teaching Learning and Leadership provided professional development opportunities including ten Faculty Academy sessions for serving our diverse student population, and two microcredential courses on "Inspiring Inquiry and Lifelong Learning" and "Creating a Sense of Belonging" which engaged campus faculty, administrators, and staff in examining their diverse roles in retention. They provided 161 instances of 1:1 support to faculty, focused on assisting instructors with immediate issues encountered in Blackboard and other aspects of course design, delivery, and assessment.

The combined efforts in all these areas contributed to an increased freshman retention rate of 65%, up two percentage points from the previous year.

Faculty Updates /Awards/Recognitions

Dr. Gail Mackin began duties as the CSU Pueblo Provost and Executive Vice President for Academic Affairs on August 1. As provost, Dr. Mackin will work alongside CSU Pueblo's president and members of the cabinet to continue to execute and implement a bold vision for academics, including a revitalization of the curriculum, improved university performance in enrollment, retention, completion, and increased career placement for students, with a goal to establish CSU Pueblo as a premier learning organization that is prepared to meet the needs of the state of Colorado, the southern Colorado region, and the CSU System.

College of Health, Education & Nursing

Dr. Belpert, Interim Associate Dean for Nursing hosted a site visit for continuing accreditation of its bachelor's in nursing (BSN) programs by the Accreditation Commission for Education in Nursing (ACEN) on September 12 and 13.

The School of Education started its innovative Ed.D. program in Educational Leadership program in January of 2023. Although we were confident that the dual P-12 and higher education perspective would be attractive, we have been pleasantly surprised by the positive reaction we have seen among potential candidates. We have 31 candidates in the program already, which is above our 3-year enrollment goal/projection. In addition to the broad educational range, candidates have been interested in the diversity, equity, and inclusion emphasis of our program as well as the opportunity to become change agents in this most important field. We look forward to helping prepare a new generation of transformational leaders!

Faculty in Health Sciences and Human Movement spent their summer publishing numerous articles and publications related to their research. Distinguished Professor Dallam also contributed interviews on behalf of his research for articles published in the Washington Post, Runners World, and Medium.com.

Hasan School of Business

Colorado State University Pueblo has named Dr. William Donoher as the Dean of the Hasan School of Business (HSB). Dr. Donoher began his duties on July 17, 2023, and previously served as Professor and Chair of the Department of Management, Marketing and Logistics at Georgia College and State University (GCSU).

Associate Professor Roberto Mejias received a new NSF grant as a supplement to the existing \$2.5 Million NSF-STEM-HSI grant called “Project PUENTE: Partnerships in Undergraduate Education for New, Transferring Estudiantes”. The NSF has designated the new grant as “Developing a Technology, Cyber Security, and Culturally Inclusive Pathway to Increase Student Participation and Persistence in STEM.”

Library

The Library held a grand opening for a new Learning Center – the LINC. The center, located on the 2nd and 3rd floors of the Library provides flexible teaching and learning spaces for faculty and students as well as library research and technology student peer-mentor-led tutoring. The approximately \$1 million dollar refresh of space formerly housing library bound journals and reference collections, was funded by a Department of Education IREPO grant and is a joint project between the Library and IT.

On August 2 and 3, the Library’s Aztlán Research Center partnered with the Colorado Latino Leadership, Advocacy, and Research Organization (CLLARO) to host a two-day long conference exploring the indigenous roots of Colorado’s Chicana/Latina/Hispanic communities and planning for advocacy efforts to support Hispanic communities across the state. Featured speakers included Dr. Estevan Rael-Gálvez, Secretary Federico Pena, and Senator Michael Bennett.

Curriculum Updates

Faculty are reviewing proposals for six new certificates in the areas of Community Engagement, Industrial Cannabis, Transportation Engineering, and Transportation Management. These will provide additional opportunities for our students to prepare for making contributions to community and industry. Outreach began this summer for the Colorado Re-Engaged (CORE) Initiative retroactive awarding of our new Associate of Art or Associate of General Studies degrees for previous students who stopped out and has already resulted in successful fall 2023 re-enrollment of a few students to complete their four-year degree.

Undergraduate Studies Update

This summer the general education faculty participated in scoring student work using the Inquiry and Analysis VALUE Rubric modified by CDHE for GT pathways. The results from this second cycle of our process are informing general education discussions this fall for potential improvements. Oral/presentational communication will be assessed this fall from last year’s collected student work. The third cycle of assessment this year will focus on the competencies of creative thinking and Critical Thinking in selected general education courses.

The Graduate School Update

The Graduate School has programmed multiple professional and personal learning opportunities for graduate students including workshops with other units on campus and book clubs. These experiences are intended to support students in their academic and health and well-being.

Research Update

The Office of Research and Sponsored Programs (ORSP) welcomed Susie Wickman this summer. Ms. Wickman serves as an intermediary between the pre-award functions in the ORSP and post-award grants management in the Office of Financial Management. The ORSP staff works alongside the faculty as the university continues to see



increases in the number of grants funded by new federal agencies and overall funding. The most recently funded grants are:

- Dr. Mejias (mentioned above) – NSF supplemental grant titled: Developing a Technology, Cyber Security, and Culturally Inclusive Pathway to Increase Student Participation and Persistence in STEM (aka PUENTE); Total Performance Period: 4/15/20-3/31/25.
- Dr. Islam – DOT grant titled: Climate Change and Extreme Events Training and Research Programs; Performance Period: 6/1/23-5/31/26; Award: (Collaboration with San Jose State University Research Foundation)
- Dr. Garcia Costas – NSF grant titled: Increasing Science Literacy in Microbiology using Open Education Resources; Performance Period: 10/1/23-9/30/25 (Collaboration Project with Iowa State University, Middle Tennessee State University, Illinois College)

Work is ongoing on other grants, including one from the Department of Commerce. Mrs. Rhonda Gonzales Manzanares and Dr. DePalma also continue their work on grants from the NEH and NASA, respectively.

Additionally, funding for a DOL project on regional workforce development has been put into the current congressional budget through the joint support of Senators Hickenlooper and Bennet. The ORSP staff continues to develop relationships with local industries, including MxV Rail, ENSCO, and the DOT's Transportation Technology Center. The ORSP-sponsored broadband initiative continues with a collaboration with the CSU System to locate a physical internet exchange point on the CSU Pueblo campus.

Research Centers Update

The Institute of Cannabis Research (ICR), in partnership with the Global Hemp Innovation Center at Oregon State University, hosted the Cannabis Research Conference (CRC) 2023 on the Auraria Campus from August 3rd – 5th. There were 338 attendees, which included 24 international participants from Australia, Brazil, Canada, Ecuador, Israel, and Korea, 143 presentations (107 oral and 36 poster), and 7 panels. The conference was supported in part by 17 sponsors. The ICR held its third statewide competition for cannabis research funding. Six new projects at institutions across the state (1-CU, 2-Anschutz, and 3-CSU) will officially start on Oct. 1 of this year and will complement the fifteen continuing projects funded as part of previous competitions. The ICR welcomes two new Governing Board Members in September (Melissa Reynolds, Ph.D. – Colorado State University and John Harloe, J.D. & Ph.D. – Balanced Health Botanicals).

The Southern Colorado Institute of Transportation Technology (SCITT) is actively working to develop transportation technology curriculum with a goal to launch some components from fall 2024. The SCITT director, Dr. Islam is also investing efforts to secure external funding to support research through SCITT, especially in collaboration with members of the Center for Surface Transportation Testing and Academic Research (C-STTAR). SCITT has so far received \$145k in federal research funding and has applied for over \$50 million in areas of hyperloop research, transportation safety, hydrogen fuels, and workforce development.

HUMAN RESOURCES & INSTITUTIONAL EQUITY

Through the cooperative efforts of HR and the Faculty and Administrative Professional Compensation Committees, and in alignment with the COWINS Partnership Agreement, eligible employees across all employee types received salary increases of 5%. These increases were prioritized in the institution's budget, along with an additional \$400,000 earmarked for faculty equity adjustments. Work has just begun on the annual exercise of reviewing and publishing compensation for all occupied regular (not temporary) positions. When positions become vacant,

compensation analyses are conducted using peer benchmark data to ensure job announcements include competitive compensation to attract and retain a high-performing team of faculty and staff.

CSU Pueblo continues to work collaboratively with CSU Fort Collins and COWINS toward State Agency Agreements for each campus that will supplement the existing COWINS Partnership Agreement. Some bargaining is being done separately due to the sizes and nuances of each institution; however, the joint sessions have given each of us a greater perspective of the other and our issues related to state classified positions. Considerable time, creative thinking, and flexibility have been committed by employees at both institutions throughout the bargaining process. We remain incredibly appreciative of the System's provision of the services of labor and employment specialist Jake Rubenstein.

As a cost-saving measure—and with focus on delivering specific content and enlisting a diverse group of employees to serve as narrators—the Office of Institutional Equity (OIE) developed in-house Sexual Harassment and Discrimination training for students and employees through Blackboard. The training was previously provided by an outside vendor. The new training is currently being tested by HR and OIE employees and will be formally rolled out this fall. Savings to the university will be nearly \$10,000 in the first year. This innovative use of our existing student LMS has piqued interest from other areas for development of their employee training, as well as identified Blackboard as a potential platform for HR's new employee orientation.

Beginning this fall, OIE will host at least one student outreach event each month to provide education and resources to students and the campus community. In September, the outreach event is about consent. For Domestic Violence Awareness Month in October, OIE will host a speaker and a self-defense class on campus. Community agencies will also be present. In November, OIE is working to partner with the Nursing Department and local forensic nurse examiners to host a discussion during which nursing students can ask questions about forensic nursing. This event will also be open to the campus community.

With the departure of CSU Pueblo's Title IX Coordinator/Director of Compliance in early August, OIE sought and received overwhelming support and guidance from CSU Fort Collins. The CSU Pueblo employees filling the interim roles of Title IX Coordinator and ADA Coordinator have had virtual and telephone meetings with those in similar roles in Fort Collins and have benefited greatly from their knowledge and expertise.

OPERATIONS & ADVANCEMENT

Implementing Vision 2028

In FY24, we are scheduled to shift all existing people and priorities to sustainable funding sources (a mix of E&G, Auxiliary, and Extended Studies). This is a Cabinet-level priority overseen by the VP of Operations and Advancement, the CFO, and the Senior Director of the Office of Financial Management. A full plan for Vision 2028's evolution will be presented as part of the FY23 Annual Report at the December 2023 BOG Meeting.

Highlights from Operations and Advancement

Strategic and incremental restructuring continues across Operations and Advancement, as we work to embed Marketing, Communications, and Community Relations (MCCR) into our portfolio. Much of our work this last year included expanding campus branding efforts (Magellan Survey), elevating engagement with Alumni beyond Pueblo, and collaborating with the CSU System team to enhance the focus on Pueblo success stories and the unique ways we differentiate ourselves in a crowded higher education marketplace. Our focus this academic year includes diversifying revenues and expanding the appeal of campus – both in southern Colorado and to Denver and beyond. We will do this work through a strategic series of changes to our work in community engagement opportunities, external events, and revenue-generating partnerships.

The \$17M state-funded Technology Building renovation made significant progress – the first hard hat tour occurred on September 22. As a reminder: in January of 2023, the Capital Development Committee officially approved the “phased” plan for the Technology renovation, which will use all currently allocated state funding to renovate the “envelope” of the building (infrastructure and mechanical/HVAC), including the south wing and the building's core. CSU Pueblo's FY25 funding request prioritized the second phase (north wing) of the building. As of September 11,



2023, we were ranked 23rd in state capital priorities. Expected completion of the first phase of the renovation is set for late spring 2024.

The General Classroom Building (GCB), closed due to a fire in July 2022, re-opened as of August 18, 2023 – in time for the first day of classes, August 21, 2023.

Significant controlled maintenance projects continue, with replacement of four campus elevators, campus water line upgrades, three roof replacements, two chiller replacements, and installation of a new fire alarm and mass notification system campus-wide totaling over \$7.5 million.

Advancement. In Q4 of FY23, the Advancement team significantly expanded its reach by cultivating interdepartmental and regional partnerships across Southern Colorado through reimagined approaches, aligning with the overarching goals of enhancing student success and expanding the university's appeal. The spring semester culminated in memorable events, such as granting an honorary doctorate degree upon our distinguished 2023 commencement speaker, Dana Perino, and hosting a lively campus-wide commencement celebration at "The Rooftop," an exciting new campus space that welcomed the Pueblo community.

During this quarter, Advancement's innovative initiative, "Grow Where You're Planted: Southern Colorado Partners Leading Advancement in Nursing Track" (known as "PLANT"), progressed from initial proposals to active planning. This evolution was made possible by two high-impact funders, the Colorado Health Foundation, and the State of Colorado, who invested in this three-year nursing pipeline development program. In an exciting milestone, Governor Polis officially announced that "PLANT" was one of nine "seed" grants awarded statewide during Opportunity Now Colorado's first phase. Title V grants were awarded, submitted, and inherited this quarter, with multi-million-dollar awards supporting the continuous growth of our Hispanic-Serving Institution initiatives. Advancement optimistically looks ahead to FY24, with plans to strengthen our collaboration and innovation that fuel the CSU Pueblo mission.

On August 14, 2023, CSU Pueblo welcomed new partners and donors, Canvas Credit Union, with the of the first southern Colorado branch location, inside the Occhiato Student Center. Canvas made a significant investment in the location and will provide in-person services, fully staffed, Monday through Friday from 8am-5pm.

On August 17, 2023, CSU Pueblo celebrated the grand opening of the CSU Pueblo Downtown Welcome Center, a partnership with the Greater Pueblo Chamber of Commerce that centers CSU Pueblo Admissions team members leading the day-to-day operations of the downtown convention center "Visit Pueblo Welcome Center." This space is co-branded with CSU Pueblo logos. Operations went live June 1, and the ribbon-cutting was well-attended as part of the opening convocation, on the evening of August 17, 2023.

ATHLETICS

The 2022-23 academic year was one of the most successful in Pack Athletics history! We had a record-high of 675 student-athletes in 21 varsity sports (student-athletes represent 24% of undergraduate enrollment). These individuals attained a combined 3.22 grade point average, which was also the highest in school history. Volleyball attained a 3.790 GPA and men's cross country had a 3.485 GPA. Eighteen Pack student-athletes had a 4.0 GPA. The ThunderWolves finished 16th in the LEARFIELD Directors' Cup standings (out of 310 schools), the highest in school history. We had seven national runner ups and 28 All-American performances throughout the year, including two conference champions (men's and women's golf). During the past year, CSU Pueblo student-athletes completed 5,902 community service hours. We were engaged in the State Fair Parade, MLK Day Parade, Boys

and Girls Club and the YMCA. We hosted the 2022 CHSAA State Football Championships (6-man, 8-man, 1A, 2A and 3A) and the 2023 NCAA Division II Outdoor Track and Field Championships. School Districts 60 and 70 were highly engaged in utilizing our sports facilities while theirs are being renovated. This summer, sport camps were an all-time high for CSU Pueblo Athletics with over 5,000 participants.

STUDENT AFFAIRS

The Division of Student Affairs remains committed to supporting students, both inside and outside of the classroom, as well as institutional goals. The Student Recreation Center made the cover story for the September/October issue of Campus Rec Magazine in support of expanding our appeal.

In addition, to supporting the enhancement of student success, the Student Recreation Student Employee Program (RecPack), had a cumulative GPA of 3.28. Furthermore, the RecPack persistence and graduation rates were higher than University averages as 81% of student staff were retained from Spring '23 to Fall '23 to CSU Pueblo (69% were retained as Repack staff), while 16% of spring staff graduated (in less than 6 years). Similarly, the Pack CARES team provided intervention strategies, resources, and support to students across campus which helped retain students. Of students referred to Pack CARES in Fall 2022, 73% were retained into Spring 2023, 50% of referrals were for first-generation students. In comparison, last year, 49% of referrals were retained into spring 2022 and 42% were first-generation students. Finally, with the support of Colorado Department of Education (CDHE), the Student Support & Advocacy Staff (case managers) launched Single Stop. Single Stop is a one-stop source for students and their family members to be connected to public benefits, services, and non-profit organizations. The Single Stop platform/program will assist case managers with navigating resources for student's basic needs.

To enhance academic and co-curricular student experiences, Student Engagement & Leadership had over 2,635 students to participate in events and activities, which included Orientation (860). Additionally, the first G.R.I.T. (Groundedness, Resilience, Integrity & Tenacity, a program for career readiness) session had 18 students to participate. Furthermore, CampusESP, an online parent platform, has over 200 parents using the portal with many more signing up daily.

On a final note, to support the development of our people, Student Health and Wellbeing Initiatives' staff trained over 125 faculty and staff regarding QPR (question, persuade and respond suicide prevention) and 30 persons regarding mental health first aid. These trainings will support our faculty and staff with being equipped to support students with mental health concerns.

INTERNAL AUDIT

The Office of the President is overseeing 9 active internal audits with 28 recommendations. To date, 227 recommendations have been completed; 23 recommendations will be completed by December 31, 2023, and 5 will be completed by the end of 2024. All audit recommendations will continue to be processed on schedule or under revised target dates in agreement with internal audit guidance.

CSU PUEBLO IN THE NEWS

Colorado State University Pueblo Announces First Graduates from Sturm Collaboration Campus. On Thursday, May 11, nine students received their bachelor's degrees at CSU Pueblo's Sturm Collaboration Campus in Castle Rock, Colorado. This unique group of graduates completed a two-year degree pathway in cybersecurity through a strategic partnership between Arapahoe Community College (ACC) and CSU Pueblo. "The collaboration between Arapahoe Community College and CSU Pueblo is a testament to the leadership of President Stephanie Fujii and President Timothy Mottet. It was their vision and partnership that brought the 4-year degree program in cybersecurity to fruition," said representative for the Colorado State University System, Kathay Rennels, Special Advisor to the CSU Chancellor for Rural Initiatives and Interim Vice President of Engagement and Extension. Currently, two bachelor's degree pathways are offered at Sturm: CIS-Cybersecurity and CIS-Secure Software



Development. These programs are offered for students who have earned an associate degree in CIS or a related field.

Colorado State University Pueblo Celebrated 500 graduates at commencement ceremonies with 10,000 in attendance. The Colorado State University Pueblo ThunderBowl was at capacity on Saturday, May 13 for the university's commencement ceremony. The class of 2023 was cheered on by 10,000 family members, friends, and loved ones, while more than 500 graduates receiving their diplomas. "Commencement is one of the most meaningful days for our campus community," said CSU Pueblo President, Dr. Timothy Mottet. "Graduation is an opportunity to celebrate our students and their families and to reflect on the big adventures still to come. We are so incredibly proud of the dedication each student demonstrated to achieve these academic milestones." CSU Pueblo alumna, co-host of *The Five* and co-anchor of *America's Newsroom*, Dana Perino, delivered the commencement address. She is a *New York Times* best-selling author. Her titles include, *And the Good News Is: Lessons and Advice from the Bright Side*; *Let Me Tell You About Jasper: How My Best Friend Became America's Dog*; and *Everything Will Be Okay: Life Lessons for Young Women (from a former young woman)*.

Colorado State University Pueblo President, Timothy Mottet, Accepted into the Fulbright International Education Administrators Program in France. Colorado State University Pueblo President, Timothy Mottet, has been accepted into the Fulbright International Education Administrators (IEA) Awards program in France. The seminar is an immersive, two-week-long program that provides opportunities to engage with international partners in educational, political, cultural, economic, and scientific fields. "I've always believed that individuals should be life-long learners," Mottet said. "As an active author, researcher, and higher education leader and advocate, the Fulbright experience will provide an opportunity for me to learn more about international post-secondary systems, as I continue my service to CSU Pueblo and to Colorado and our CSU System." Mottet is one of 12 participants selected for this prestigious opportunity. As the French government reforms their system of higher education, Mottet and the cohort of higher education leaders from the United States, will conduct research that examines unresolved issues and items that still need to be addressed in the aftermath of the reform of post-secondary educational systems. Mottet will identify lessons that regional comprehensive universities can learn from the French educational reform that will help inform institutional planning and policy development. Specifically, Mottet will study the efficacy of mergers, alliances, and strategic partnerships that help institutions optimize their effectiveness.

Colorado State University Pueblo Awarded \$510,000 from the Colorado Health Foundation. Colorado State University Pueblo has been awarded a three-year \$510,000 grant from the Colorado Health Foundation to support the project, "Grow Where You're Planted: Southern Colorado Partners Leading Advancement in Nursing Track" (PLANT). The proposal, stewarded by Alexandra Hansen, a regional development officer with CSU Pueblo's Denver Advancement team, was created as a collaboration between CSU Pueblo's School of Nursing, the Graduate School, and the Extended Studies rural outreach program. The goal of the project will be to connect high school students, primarily students of color and rural students, throughout Pueblo and Southern Colorado with the resources they need to earn a degree in nursing and serve their communities who have limited access to health care. The grant will be funded over three years. The first year of the project will provide support for recruiters to meet with high school students in Pueblo and Southern Colorado and discuss the challenges they face when they apply to a nursing program. Based on their feedback, strategies will be developed to help students earn a degree in nursing.

Colorado State University Pueblo Named as a Recipient of the CulturaGo Grant to Support Study Abroad. CSU Pueblo is one of six institutions awarded the CulturaGo Grant for the Summer 2023 session. Through this grant, up to 1,000 students at CSU Pueblo now can enroll in free cultural education courses through CulturaGo to help prepare them for study abroad in South Korea and Italy. Course topics include etiquette, advice from locals,

culture shock, and how to avoid faux pas. The deadline for students to enroll is June 30. However, students retain their access beyond that date and are encouraged to use this resource to prepare for future study abroad excursions. There are no requirements or prerequisites to register for this program. Students interested in South Korea or Italy are encouraged to enroll. Assistant Director of Inclusion and Global Initiatives and grant initiator, Victoria Ruiz, said, “A grant like this means students have one extra tool to help them culturally navigate their destination. It's one less thing to stress about during their pre-departure planning and we want to ensure our students feel secure when they board their planes. They can access these courses instantly and learn at their own pace.” CulturaGo's online country and identity-specific cultural preparation courses are designed to help students determine if a study-abroad opportunity will fit their educational goals at the university. The classes offer tools to enhance students' cultural understanding, awareness, and intelligence of the country of their destination.

Colorado State University Pueblo Nursing Education Initiative Awarded \$1.39 Million from Opportunity Now Colorado Grant Program. Colorado State University Pueblo nursing education initiative awarded \$1.39 million from Opportunity Now Colorado Grant Program. The newly created “Grow Where You're Planted: Southern Colorado Partners Leading Advancement in Nursing Track (PLANT),” program was one of 46 grant recipients funded in the first of three phases of funding provided by the Opportunity Now Colorado Grant Program. The university's proposal, led by Dr. Misty Sailors, Dean of the Graduate School, and Alexandra Hansen, Regional Development Officer, received \$1.39 million in support in the seed track. Governor Jared Polis's office announced a total of \$27 million was awarded in initial funding for proposals within the scale, seed, and planning grant tracks. “Across the state, employers are looking to hire the top talent that Colorado is known for. The Opportunity Now Colorado grant recipients will help Coloradans develop the skills and experience our growing industry partners need and unlock access to good paying jobs,” Governor Polis stated in a state release.

Colorado State University Pueblo's High School Equivalency Program Celebrates Inaugural Cohort of Students. CSU Pueblo celebrated 12 students who are the first to earn their GED through the High School Equivalency Program (HEP) offered at the university. HEP is a federally funded program from the U.S. Department of Education that helps eligible migrant workers, and their families obtain a high school equivalency diploma. Dr. Victoria Obregon submitted a grant to the U.S. Department of Education in a collaborative effort with Kansas State University to create the program at CSU Pueblo. Courses are offered for migratory and seasonal farmworkers, or their children, who are 16 years of age or older and who are not currently enrolled in school to obtain the equivalent of a high school diploma.

Colorado State University Pueblo and Greater Pueblo Chamber of Commerce Announce Joint Partnership with New Visit Pueblo Welcome Center Location. CSU Pueblo and the Greater Pueblo Chamber of Commerce (GPCC) are proudly announced the grand opening of the Visit Pueblo Welcome Center. A ribbon cutting ceremony took place on August 18th at 310 Main Street. The welcome center is a partnership between the university and the Chamber and serves as a space to welcome visitors to Pueblo and introduce them to the CSU Pueblo campus. Located adjacent to Gateway Park on the Historic Arkansas Riverwalk of Pueblo, the welcome center provides a central location to welcome new and future ThunderWolves to Pueblo. “As part of Vision 2028, we want to engage place, elevate Pueblo, and serve as an excellent community partner,” CSU Pueblo President Dr. Timothy Mottet said. “This location serves as a brick-and-mortar representation of the valued partnership we have with the Greater Pueblo Chamber and helps connect our campus and students to our beloved community.”

National Science Foundation Awards \$33,000 Grant to Fund Microbiology Literacy Project. The project, “Increasing Science Literacy in Microbiology through the Use of Open Education Resources,” has been awarded funding from the National Science Foundation (NSF), with CSU Pueblo receiving \$33,152. The goal of this project is to help students learn and engage with current science through use of no-cost, open education resources. Associate Professor of Biology and Principal Investigator Dr. Amaya Garcia Costas and her students will join a team of faculty and students from Iowa State University, Middle Tennessee State University, and Illinois College in the completion of this project during the next two years. “Many students leave science because they feel unconnected and uninspired by traditional teaching methods,” Dr. Garcia Costas said. “At the same time, teachers struggle to find teaching resources that are effective and innovative to engage their students in the scientific process. This project aims to address these issues using successful innovative methods such as having students practice science while working collaboratively in current topics and generating readily available teaching materials.”

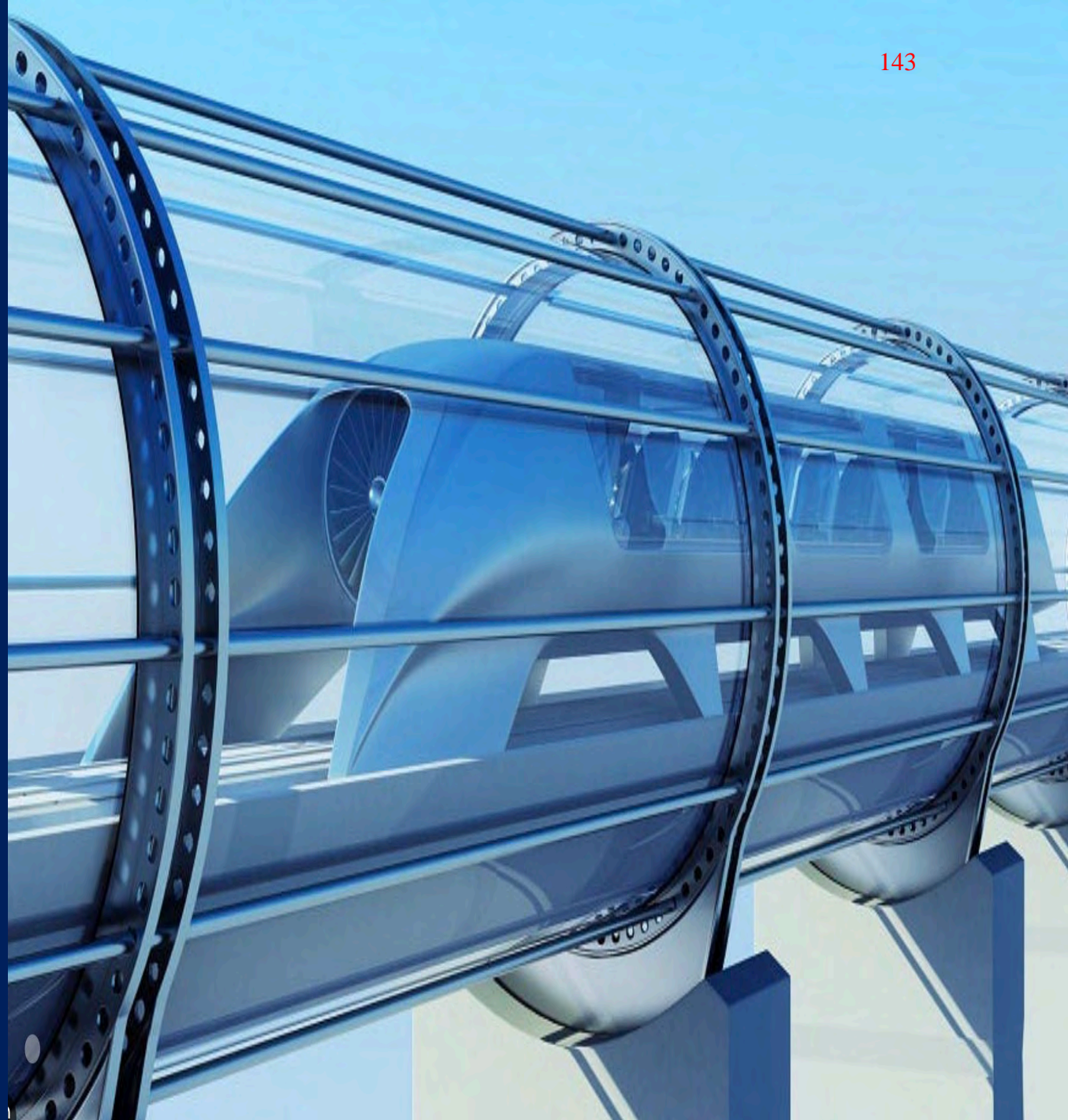
CSU Pueblo School of Education Program Among Top in the U.S. for Training Future Teachers in the Science or Reading. The undergraduate teacher preparation program at Colorado State University Pueblo has been



recognized by the National Council on Teacher Quality (NCTQ) for its rigorous preparation of future teachers in how to teach reading, earning an “A” grade in NCTQ’s new report, *Teacher Prep Review: Strengthening Elementary Reading Instruction*. The program is among just 23 percent nationwide to earn an “A” from NCTA for meeting standards set by literacy experts for coverage of the most effective methods of reading instruction—often called the “science of reading.” “This report and subsequent national rank are a reflection of the dedication and high standards set by our faculty and staff in the School of Education,” CSU Pueblo President, Dr. Timothy Mottet said. “Our mission is to develop students who can navigate life in a rapidly changing world. The results of this report demonstrate that our students are well-equipped to make a positive impact and develop the next generation of learners in their future classrooms.”

SOUTHERN COLORADO INSTITUTE OF TRANSPORTATION TECHNOLOGY | SCITT

Presented to Board of Governors October 5, 2023
Dr. Timothy Mottet | President



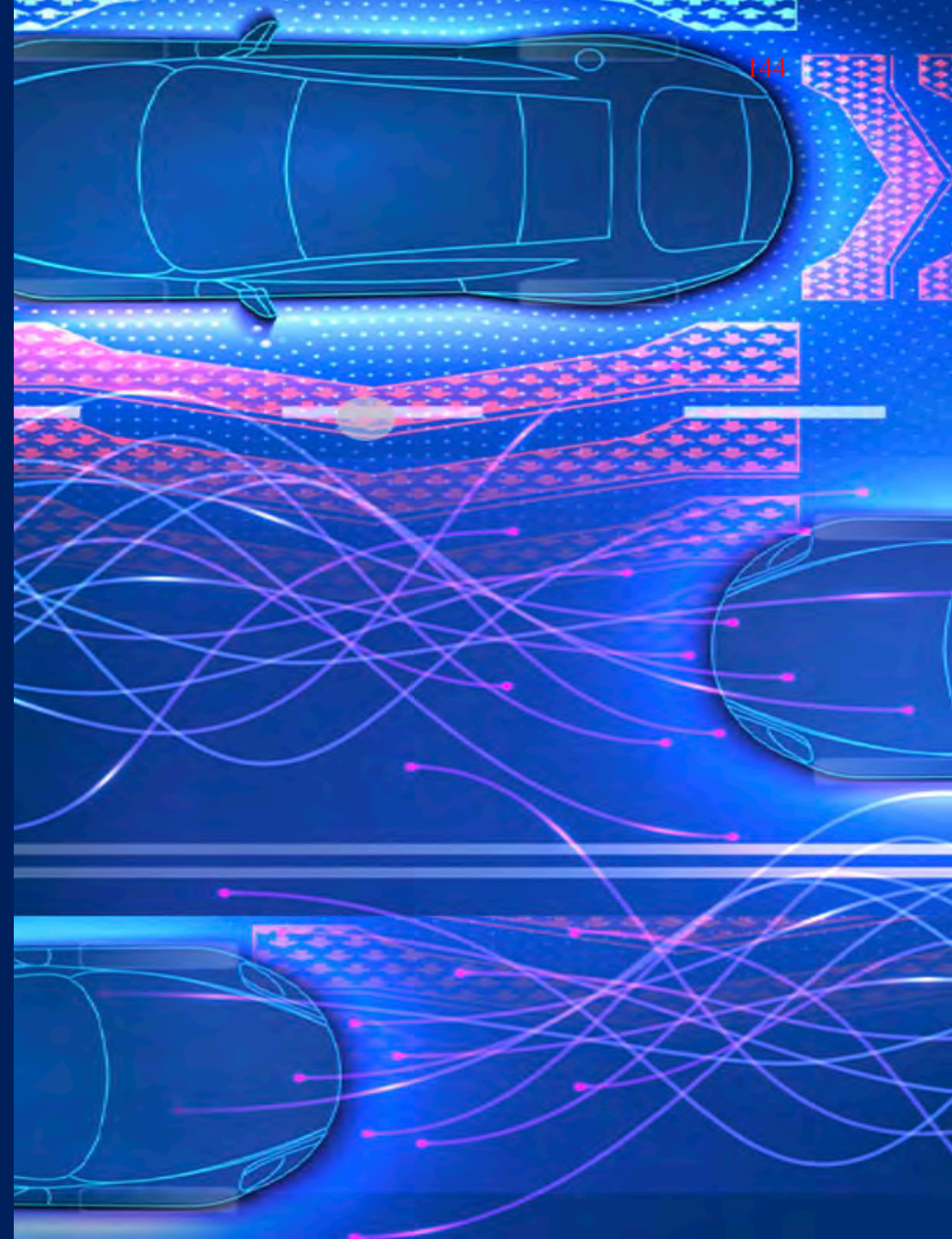
WHAT WILL SCITT DO?

Will develop the next generation of transportation professionals to keep the country moving

Will engage students in conducting, facilitating, and disseminating transportation research including an annual symposium

Will serve as a hub that provides training to professionals and brings researchers together to solve transportation problems

Will drive economic development in Pueblo and southern Colorado



WHAT ARE THE NEEDS?



Transportation accounts for 11 million jobs, and transportation-related employment accounts for about 8.7 percent of civilian workers in the United States.

Half of the transportation workforce will be eligible to retire in the next 10 years— double the retirement rate of the nation's entire workforce.

HOW DOES IT FUNCTION?

STATE DESIGNATED

House Bill 22-1365

GOVERNING BOARD

9-member governing board

DIRECTOR

Dr. Md Islam | CSU Pueblo

PARTNERSHIPS

ENSCO | Pueblo
MxV Rail | Pueblo
C-STAAAR





ENSCO is proud to support the Federal Railroad Administration's (FRA) Transportation Technology Center (TTC), located in Pueblo, as the prime contractor conducting research, engineering, testing, and training as well as operating and maintaining this important US Department of Transportation facility.

ENSCO looks forward to working with and supporting all government, commercial and educational entities interested in conducting work at TTC in support of rail and surface transportation innovation.



Unique Facility Features

- More than 50 miles of railroad test track
- Arranged in different configurations for testing all aspects of vehicle-track interaction
- Maximum test speeds up to 165 MPH (265 KPH)
- Overhead and third rail electrification available
- 9 miles of paved roads
- 50 miles of gravel roads
- Crash Test Wall
- Test Tunnel
- Test Fixtures
- Indoor/Outdoor Surface Transportation Training Facilities



For decades, the world's railways have counted on the team of experts at MxV Rail, in Pueblo, to advance the rail industry and to serve rail clients. MxV Rail helps set the standards and solves immediate and long-standing rail challenges. MxV Rails test breakthrough technologies and trains first responders in how to do things right when things go wrong.



C-STTAR

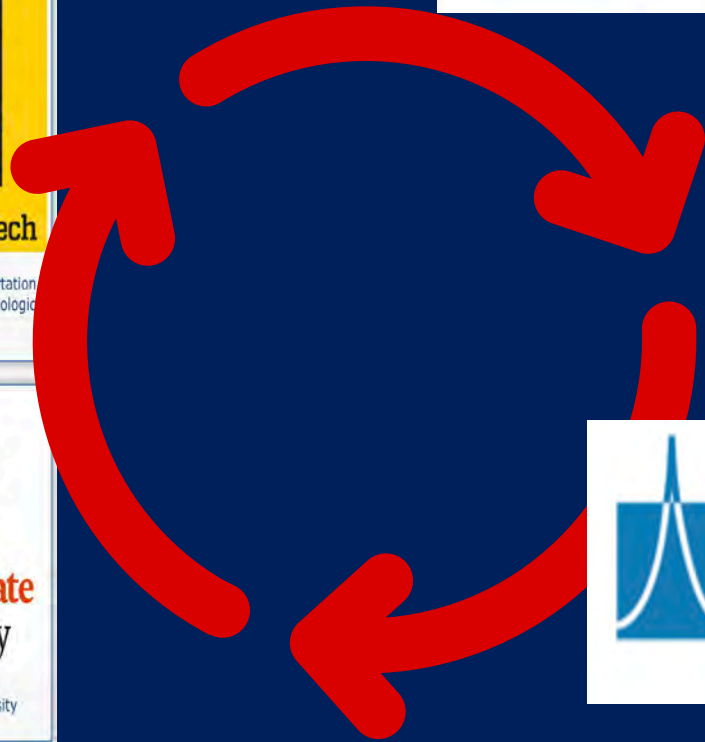
The Center for Surface Transportation Testing and Academic Research (C-STTAR) consortium comprises eight universities and academic research centers.

C-STTAR provide expertise in research focus areas across all surface transportation modes, including intermodal transportation, to support Transportation Technology Center growth initiatives.

The University of South Florida Center for Urban Transportation Research leads the consortium.



 <p>University of South Florida Center for Urban Transportation Research</p>	 <p>Colorado State University - Pueblo</p>	 <p>MICHIGAN STATE UNIVERSITY</p> <p>Connected and Autonomous Networked-Vehicles for Active Safety (CANVAS), Michigan State University</p>	 <p>Michigan Tech</p> <p>Michigan Tech Transportation Institute, Michigan Technolog University</p>
 <p>Midwest Roadside Safety Facility, University of Nebraska-Lincoln</p>	 <p>University of Hawai'i</p>	 <p>Mineta Transportation Institute, San Jose State University</p>	 <p>Oregon State University</p> <p>Oregon State University</p>



HOW WILL IT PREPARE STUDENTS?

At CSU Pueblo, we are confident that the automotive and transportation curricula of the future will be developed by CSU Pueblo faculty and will create new, “career-ready” professionals who are prepared to manage systems and processes that will support the growing popularity of electric and hybrid vehicles, the emerging surface transportation infrastructure, and who will be prepared to make significant contributions to Pueblo’s transportation-focused organizations. Together, we know our next generation of automotive and transportation students, like Pueblo itself, will be prepared to contribute to our rapidly changing world.

—Dr. Gail Mackin, Provost





Potential Certificates, Baccalaureate Degrees, Post-Baccalaureate Certificates, and Graduate Degrees to be developed –

Transportation Management
Transportation and Supply Chain
Vehicle to Vehicle Communication
Hybrid and Electric Vehicle Engineering
Hyperloop Technologies and Engineering
Civil Transportation Engineering
Transportation Leadership and Sustainability
Transportation Engineering
Transportation Sustainability
Alternate Fuels and Green Energy

HOW IS IT FUNDED?

SCITT has received \$145K in external research funding from 2022 to 2023.

SCITT has applied for \$65.3 million so far in external funding. Examples –

Project Name: Hyperloop Testing
Agency: Federal Railroad Administration
Funding: \$62.4 million

Project Name: Railway Workforce
Agency: Federal Railroad Administration
Funding: \$840k

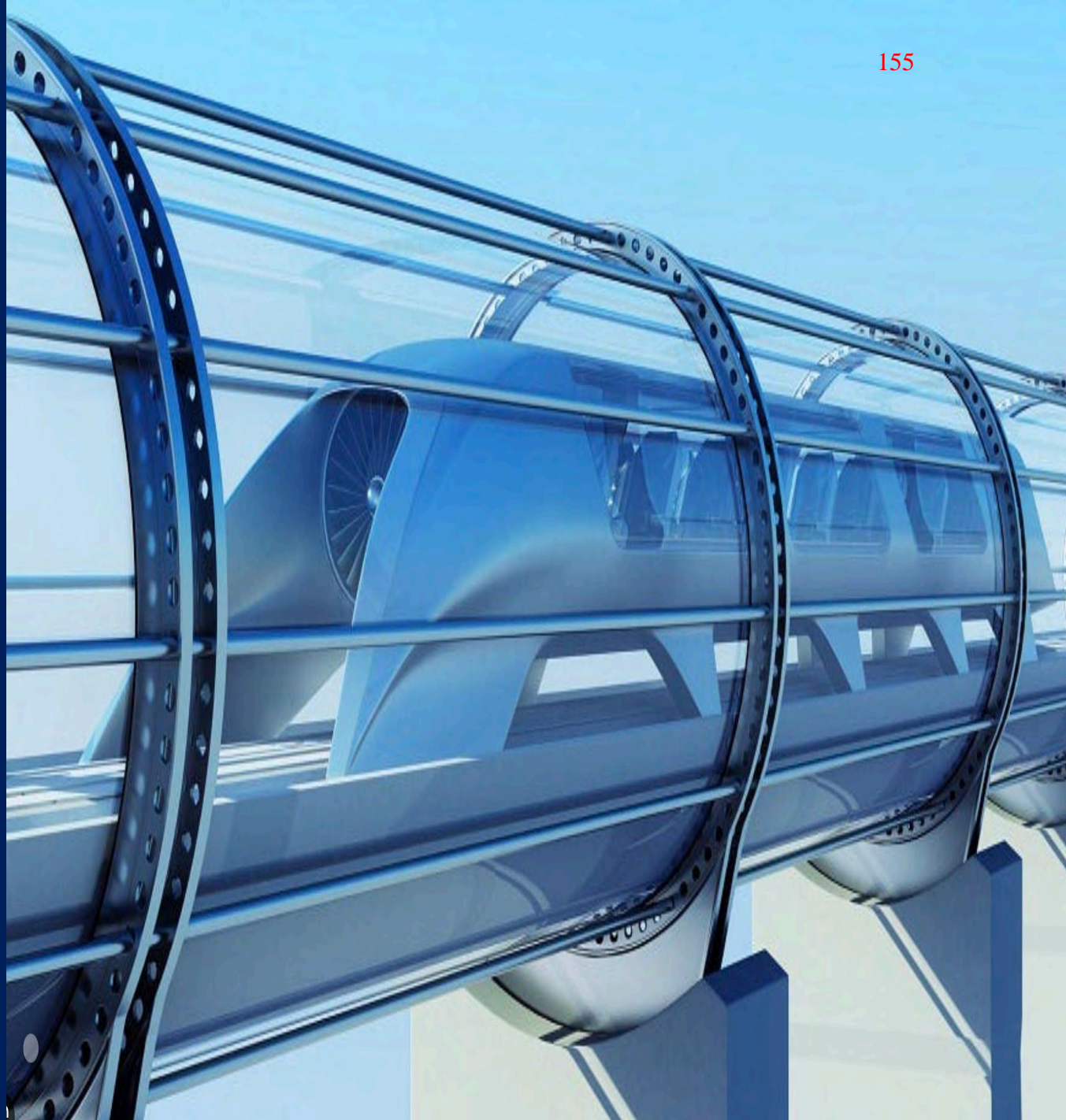
Project Name: Hydrogen Fueling
Agency: US DOT
Funding: \$570k





CSU PUEBLO

THANK YOU





ANNUAL REPORT

2023

TABLE OF CONTENTS

LETTER FROM THE GOVERNING BOARD CHAIR	03
ABOUT THE ICR GOVERNING BOARD	04
LETTER FROM THE INTERIM DIRECTOR	05
ICR STAFF	06-07
SUMMARY OF ICR-FUNDED RESEARCH	08-15
ICR INTERNAL RESEARCH	16-18
EMERGING SCIENTIST SCHOLARS	19
FY 2023 BUDGET REPORT	20-21
2023 CANNABIS RESEARCH CONFERENCE KEYNOTE SPEAKERS	22
OUTREACH AND IMPACTS OF ICR	23
JOURNAL OF CANNABIS RESEARCH	24-25
DISSEMINATION ACTIVITIES	26-27





LETTER FROM THE GOVERNING BOARD CHAIR

Serving as the Chair of the Institute of Cannabis Research (ICR) Governing Board for the past three and a half years, has been a true honor. I have witnessed a maturing of the Institute as its role in Colorado has evolved. I and the Board are very pleased with the trajectory of the Institute. The Board and the Institute are encouraged by the continued support of the State of Colorado to fund important cannabis research and engaging world-class researchers throughout the state.

We have overseen a robust research portfolio developed from this funding, and we hope to continue to engage researchers to meet the needs of the state going forward. Soliciting applications through an annual state-wide research competition, we continue to receive applications from top researchers and top institutions across the state. Requests for funding total well over the amount that we can support. Some highlights of funded research include projects addressing the harms of high potency cannabis, public safety of cannabis in regards to driving, as well as clinically relevant research focused on important health outcomes such as Alzheimer's Disease and cancer. Given the state's early vision and support for the ICR, the growth potential for the ICR and the State of Colorado as a national leader in cannabis research is exceptional.

The ICR has developed of several national and international partnerships that have been established over these past few years to expand the scope and impact of the ICR. Some of these partnerships are around initiatives to see the results of cannabis research broadly and publicly disseminated. The ICR continues to co-host and see the Cannabis Research Conference (previously the Institute of Cannabis Research Conference) grow in stature and importance as one of the very few cannabis focused conferences that is truly a research conference. The Cannabis Research Conference has become a destination conference for those working in this diverse area of research. We hope to see you at the conference in Denver being held August 3-5, 2023.

The Governing Board is comprised of members with a broad array of expertise and skills. The Board works closely with the ICR Staff to offer a broader set of perspectives, has help shape the direction of the ICR, and works to elevate the Institute in Colorado and beyond. The Board and the ICR are poised to respond to the cannabis research needs of the state and to leverage the infrastructure and expertise developed in the Institute to benefit the state. The Board is committed to the supporting the success of the Institute and elevating the state of Colorado in the realm of cannabis research.

Dr. Cinnamon Bidwell

Chair of the ICR Governing Board



ABOUT THE ICR GOVERNING BOARD

The ICR has a governing Board which is appointed by the Governor of the state of Colorado as specified by Colorado HB 19-1311. The constituents include the Chancellor of the Colorado State University System or his or her designee (Timothy Mottet), the Executive Director of the Colorado Commission on Higher Education or his or her designee (Scott McWhorter), the President of the University of Colorado or his or her designee (Jon Reuter), the Executive Director of the

Department of Public Health and Environment or his or her designee (Elyse Contreras), three scientists from relevant fields who have been employed at appropriate research-oriented institutions or entities (Cinnamon Bidwell, Joanna Zeiger, TBA), and four members associated with cannabis-related industries in Colorado (Sal Pace, Sherard Rogers, Malik Hasan, TBA).



ICR Governing Board Members

Back Row L-R: *Mr. Scott McWhorter, Dr. Chad Kinney (previous Director of the ICR), Dr. Tim Mottet, Dr. Jon Reuter, and Dr. Jeff Smith (Interim Director of the ICR).*

Front Row L-R: *Dr. Malik Hasan, Dr. Cinnamon Bidwell, Ms. Elyse Contreras, and Dr. Joanna Zeiger. Not pictured: Mr. Sal Pace, and Mr. Sherard Rogers. Dr.'s Kinney and Smith, pictured, are not Governing Board Members.*





LETTER FROM THE INTERIM DIRECTOR OF THE ICR

The ICR had a very successful year in fulfilling its mission, and continued to significantly increase the scope and quality of the institute's capacity to produce and administer high quality cannabis research and research dissemination for the people of Colorado. Highlights included:

- Significantly increasing the scope of ICR-funded research by supporting five new cannabis research projects which began this year with awards totaling \$778,370.00. This brought the total number of ICR-sponsored research projects to 15 in total.
- Reviewing, refining, and implementing a best-national-practices proposal review process which resulted in a total of 47 applications proposing to do \$6,914,456.00 in new research. These applications came from the top academic cannabis researchers at Colorado's best research institutions. The top-tier of these projects are slated for implementation next year.
- Securing an additional \$1,000,000.00 from Colorado's Marijuana Cash Tax Fund to support up to five additional new projects next year. These funds will also double the capacity of the ICR to conduct its in-house cannabis research program.
- Conducting in-house cannabis research which resulted in the production of 11 research publications in the peer-reviewed scientific literature, 16 presentations at scientific conferences, formation of 7 international collaborations, training of 10 research students, and receipt of \$265,000.00 in external funding which completely offset the cost of the ICR's research program to the state.
- Implementation of our 6th Annual Cannabis Research Conference, which was conducted in collaboration with the Global Hemp Innovation Center at Oregon State University, and planning for the 7th annual conference which will be held at the Auraria Campus in Denver this August 3-5. The conference will feature over 150 research presentations with keynote speakers from around the world.

Colorado had the vision to create the ICR as cannabis legalization evolved in the state. Since its origination the institute has provided high quality research products which are fulfilling the responsibility of the state to provide the people of Colorado with evidence-based knowledge about the true harms and benefits of the cannabis products which are now legally produced and distributed in Colorado. As the cannabis industry is maturing in our state, declining revenues from cash sales of cannabis products have created a challenge for the legislature in meeting the budget demands necessary to sustain the research capacity of the ICR. Despite that, the legislature took its responsibility seriously, and not only sustained, but increased the research capacity of the ICR with added funding this year. It is this commitment of the Colorado legislature to its constituent citizenry that distinguishes Colorado as a national leader in how it addresses legal cannabis in our great state.

Jeffrey P Smith, PhD

Interim Director of the ICR

Professor of Biology

Colorado State University Pueblo



MEET THE ICR STAFF

161



Dr. Jeff Smith Interim Director, Institute of Cannabis Research

Dr. Smith is an accomplished neuroscientist with research expertise focused on learning and memory and neurodegenerative diseases. This includes multiple publications in cannabis-related research. Dr. Smith's connection to the ICR is not new. He was part of the team that created the vision which led to the establishment of the ICR in 2016, as well as helped provide early leadership of the ICR as a member of the Institute's Steering Committee. Further, Professor Smith is an experienced leader on the CSU Pueblo campus as a former Director of the graduate program in the Biology Department and Chair of the Biology Department. Dr. Smith brought this expertise and experience to bear as the interim Director of the ICR this year, which saw continued success, growth, and impact of the ICR in providing cannabis research and dissemination to the people of Colorado and beyond.



Dr. John Williamson Executive Director of Research, Institute of Cannabis Research

Dr. Williamson joined CSU Pueblo as the Senior Director of Research in 2019. He serves as the ICR's strategic development advisor in pursuing research partnerships, collaborations, and external funding opportunities. Dr. Williamson received his Ph.D. in medicinal chemistry and natural products chemistry from the University of Iowa. He served as a tenured professor of medicinal chemistry at the University of Mississippi for 25 years overseeing the drug discovery and development research program in infectious diseases. Dr. Williamson was also a branch chief of basic and mechanistic research at the National Institutes of Health in Bethesda, MD, and has served as a research consultant for a variety of governmental agencies, private industry, the media, and many universities across the country.



DuShunte Carmon Grants Manager and Program Officer, Institute of Cannabis Research

DuShunte D. Carmon received BA's in both Sociology and Behavioral Science from San Jose State University in 1999, a MS Degree in Sociology/Criminal Justice from Clark Atlanta University in 2002, and a Paralegal Certification from Emory University in 2010. Mr. Carmon has taught courses at Morehouse College, Clark Atlanta University, University of Memphis, and Voorhees College. Mr. Carmon was a Field Researcher and Data Analyst for the State of Georgia, Department of Highway Safety, Seat Belt Study in 2001, as well as being a Research Associate for Morehouse College. Mr. Carmon has recently worked on projects involving virtual reality learning and has done philanthropic work.



Wendy Fairchild

Office Manager, Institute of Cannabis Research

Ms. Fairchild takes the lead in managing the ICR's website, creates, publishes, and distributes all in-house ICR outreach materials including the bi-monthly e-newsletter, webinar email blasts and notifications, news items, and manages the ICR's social media content. Ms. Fairchild has worked for the ICR as the Office Manager for five years, interfacing with the university faculty, staff, students, and public, and supports the administrative needs of the staff, governing board and grant-awarded principal investigators. Ms. Fairchild also assists with organizing the annual cannabis conference and contributes to the publication of the ICR's annual report.



Dr. SangHyuck Park

Senior Scientist, Institute of Cannabis Research

Dr. Park is the Senior Researcher for the ICR at CSU Pueblo. Dr. Park leads a multi-tiered research program which has published over a dozen peer-reviewed research articles on cannabis genetics, physiology, and cannabinoid chemistry. Over the past six years, Dr. Park has also served as a cannabis educator, teaching Botany and Cannabis Physiology and Growth courses for the Cannabis Biology and Chemistry (CBC) program at CSU Pueblo, and supervising a number of students seeking PHD, MS and undergraduate degrees. Dr. Park also collaborates with several visiting scholars from South Korea, Spain, and Colombia, who are engaged in a variety of cannabis research projects for the ICR at CSU-Pueblo. Additionally, Dr. Park has built several research collaborations between the ICR and several other institutions, including with agencies in the US, Israel, and South Korea.



Ingrid Carolina Corredor Perilla

Visiting PHD Student

Carolina Corredor is an Agricultural Microbiologist, with a master's degree in Biological Sciences. She is also a Ph.D. candidate in Agroecology from the National University of Colombia and has over 5 years' experience teaching fungal biology, biology, general microbiology, and agricultural microbiology at Los Andes University, Agrarian Foundation of Colombia, and the National University of Colombia. Currently, she is working with the ICR as a Visiting Scientist where she is investigating biotic and abiotic factors that affect cannabinoid production. She expects to defend her dissertation this fall.



Dr. Eun-Soo Kim

Visiting Scholar

Dr. Kim joined the ICR as a visiting scholar in 2019 conducting a glandular trichome project. His background is in plant morphology and development. Dr. Kim previously served as a professor of plant biology at the Konkuk University in South Korea for 26 years studying economic aspects of cannabis, rosemary, hops, and ginseng. Dr. Kim published 45 peer-reviewed publications with 703 citations in total. He was a winner of the Great Research Award, presented only to the top-ranking researchers selected from one thousand professors at the Konkuk University. Dr. Kim founded the Korea Hemp Institute in 2007 and served for 7 years as Director. Dr. Kim submitted two manuscripts on behalf of the ICR to the journals AOB plants and Journal of Natural Fibers, the latter of which is in press.



SUMMARY OF ICR-FUNDED RESEARCH

FY23 Awardees

The following five researchers were added as new contributors to the repertoire of projects that the ICR funded this year. Projects began in October. With their addition, the total number of currently funded research projects is now fifteen.

1



Are Cannabinoids really helpful for treating traumatic brain injury?

Kent Hutchison, PhD
Institute of Cognitive Science,
University of Colorado Boulder

Cannabinoids, including both CBD and THC, have gained significant public attention as a potential alternative treatment for Traumatic brain injury (TBI). However, the limited scientific evidence does not support the growing perception that cannabinoids are useful for treating TBI or its closely related pain, sleep, mood, and anxiety disorders. Moreover, due to complex regulatory

requirements, many individuals use medical cannabis on an “off-label” basis without the appropriate scientific research to show whether or not such use would be helpful. Therefore, Dr. Hutchinson’s project is evaluating the potential therapeutic effects of widely available cannabinoid formulations on TBI-related deficits in cognitive function, anxiety, depression, sleep, and pain.

2



Purification and evaluation of minor cannabinoids for treating Alzheimer’s disease

Duncan Mackie, PhD
Director of Pharmacology
& Experimental Therapeutics,
MedPharm Holdings

Previous research shows that cannabis stops inflammation by modifying the Endocannabinoid System (ECS) in immune cells. The ECS is uncontrolled in the brain’s immune cells during the onset of most neurodegenerative diseases, like Alzheimer’s disease. This mis-regulation is thought to be a major contributor the development of these devastating diseases. Therefore, in this research study, brain immune cells will be put in an inflammatory state by exposing them to the proteins thought to cause Alzheimer’s disease, Amyloid Beta and Tau. Inflammation will then be tracked in the cells to determine whether cannabinoids can reduce the inflammation. Ultimately, this work will provide the foundational knowledge necessary to develop cannabis-based medicines for the treatment of Alzheimer’s disease and many other neurological diseases with an inflammatory component.

Most exciting, early research findings in this study have shown that it is possible to successfully isolate minor cannabinoids from DEA approved cannabis sources and the researchers have begun characterizing inflammation in the brain immune cells. While this work is in the early stages, the successful isolation of cannabinoids and the ability to “read” the cellular signatures during inflammation are key steps towards identifying specific minor cannabinoids that can be developed into medicines for neurodegenerative diseases with an inflammatory component.



Cinnamon Bidwell, PhD
Institute of Cognitive Science Faculty,
Assistant Professor, University of Colorado Boulder





Does cannabidiol (CBD) treat or prevent combined autism and epilepsy?

Christopher Lowry, PhD
Assoc. Professor, Integrative Physiology,
University of Colorado Boulder

Over 50% of children with autism show signs of epilepsy with up to 40% developing chronic epilepsy later in life. Similarly, one-third of children with epilepsy are also diagnosed with autism. While there is increasing scientific evidence that inflammation is a key component that causes autism/epilepsy, the necessary pre-clinical animal research to determine whether or not inflammation contributes to development of the disease or to its possible treatment is sorely lacking. Interestingly, cannabidiol (CBD) has been shown to have powerful anti-inflammatory effects in the brain, suggesting that CBD could possibly prevent

or treat autism/epilepsy. Therefore, this study will determine whether autism/epilepsy is caused by neuro-inflammation, and whether or not CBD treatment can prevent the development of the disease. This work will be done in research mice who have a genetic pre-disposition to producing offspring that develop autism/epilepsy. An interesting and important component of this research study is that CBD is being delivered to the mice during or around pregnancy. The results of this work will improve our understanding of how inflammation contributes to autism/epilepsy and may lead to new treatments for the children of high-risk human mothers.



Are Cannabinoids really helpful for treating traumatic brain injury?

Jeremy Taylor, B.A.
Graduate Student, Department of
Psychology and Neuroscience

Jeremy is a contributor to Dr. Lowry's project and represents one of the many next-generation cannabis researchers for whom the ICR supports in training.

I am extremely thankful for the opportunity given to me by Dr. Lowry, Dr. Barth, and Dr. Reuter to work on this project. I am also incredibly grateful to the Institute of Cannabis Research for providing the funds to our labs and research team. I was largely unaware of the wide array of positive effects that Cannabis can have on diseases and disorders until I started work on this project. We have promising results demonstrating that broad-spectrum Cannabidiol may mitigate the negative effects of prenatal and postnatal stress on long-term development in rats, which is very exciting for a multitude of reasons. This project has been the most challenging project I have worked on to date. Accordingly, I have learned an enormous amount in terms of experimental design, planning, and execution due to the large scale and extensive timeline. Lastly, this project has given me the chance to be exposed to techniques that I otherwise wouldn't have been, largely thanks to the inter-departmental collaboration that is required of a project this large.



4



Can cannabinoids work as pesticides to help with agricultural production in Colorado?

Punya Nachappa, PhD
Associate Professor, Entomology,
Department of Agricultural Biology,
Colorado State University

Understanding how plants respond to insect herbivores can provide new insights into plant-insect chemical communication and is important for creating new approaches to crop protection. Cannabinoids, which include Δ^9 -tetrahydrocannabinol (THC), cannabidiol (CBD), more than 100-related secondary metabolites, and also a variety of terpenes and phenolic compounds, are all found in cannabis plants. And are thought to be produced by cannabis plants, in part, to repel insects. To date, no study has analyzed

the degree to which such cannabinoids confer pest resistance to *C. sativa* (hemp). Hence, the goal of this project is to understand how cannabinoids affect pests that prey on hemp plants. The research uses, and is developing, novel genetic tools and technology to evaluate this. Outcomes of the research will not only advance basic research in the field of plant-insect coevolution, but also have practical applications for creating genetic strains of hemp with improved pest resistance. These tools can be easily transferred to other hemp producing regions in the U.S.

Three significant points of this research:

- A** Colorado continues to be the top hemp-producing state in the U.S, but productivity is severely limited by damage due to insect pests.
- B** Despite the assumption that cannabinoids evolved as insect defense mechanisms, there is limited research addressing the role of cannabinoids as pesticides.
- C** Understanding which cannabinoids confer pest resistance will help Colorado hemp growers to breed pest-resistant hemp.

Olivia Carter



"This project has allowed me to gain experience in multiple areas of research including plant biology, genetics, genomics and pest management. I have decided to join the CSU graduate school for my M.S program thanks to the experience working on this project."

Olivia Carter is an undergraduate student assisting in this research project. Her involvement in this project has motivated her to pursue a graduate degree in the field.

5



Health Effects of Heavy Metals in Cannabis Flower, Concentrates, Vape Devices, and Vape Emissions

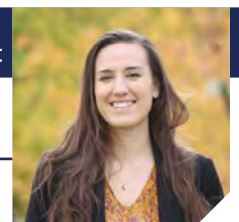
Mike Van Dyke, PhD
Associate Professor,
Center for Health, Work, and
Environment, Colorado School of
Public Health, University of Colorado
Anschutz Medical Campus

Metal exposure from cannabis vaping poses significant public health concern. The percentage of individuals using cannabis by vaping has increased dramatically in the U.S. Past research has detected chromium, lead, tin, and nickel in cannabis vapors at higher concentrations than are found in tobacco smoke. Currently, cannabis is regulated for only four heavy metals (lead, cadmium, arsenic, and mercury) despite known health effects from other heavy metals likely to be present in cannabis products. Pharmaceutical products, on the other hand,

are regulated for 24 heavy metal or "elemental" impurities.

This research will evaluate the risk of health effects from cannabis smoking or vaping contaminated with heavy metals such as arsenic, lead, nickel, cadmium, manganese, uranium. It is the first known human health risk assessment to evaluate the large number of heavy metals that may be present in cannabis flower, concentrates and vape devices.

Francesca Macaluso MPH Student



"The ICR grant funding for my role in this project has provided me the opportunity to pursue dissertation work that has clear and immediate public health impact in the world of vaping and cannabis use, all while continuing to develop my analytical and environmental health research skillsets."

Francesca Macaluso is a Master's of Public Health student who is becoming an expert in cannabis-related health issues by contributing to this project.



FY22 AWARDEES

The following ten researchers continued in the second year of their research contributions to the increasing repertoire of ICR-funded cannabis research projects.

Are Cannabis product labels accurate in the state of Colorado?



Duncan Mackie, PhD
Director of Pharmacology & Experimental Therapeutics, MedPharm Holdings

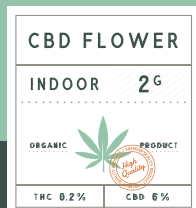
It is crucial for legal cannabis products to report accurate cannabinoid potency information and no study has independently evaluated the accuracy of labels on commercially available cannabis products in the state of Colorado. Therefore, this research is testing a wide variety of Colorado cannabis products and comparing the potency results to those listed on the product labels. The project is in collaboration with MedPharm Research, a licensed cannabis testing facility with the capacity to purchase, handle, and test cannabis purchased from the Colorado legal marketplace. The research team at the University of Colorado Boulder, on the other hand, is maintaining, managing, and analyzing the product data.

While this study is still in the early stages, findings suggest that product labeling for concentrates is achieving state defined accuracy goals, which is particularly important given their



Is what you see what you get?

In preliminary analyses from 58 cannabis products (29 flower-joints and 29 concentrates) product labels for THC potency were 48.3% accurate for flower, and 100% accurate for concentrates. Flower and concentrate products showed similar absolute differences of 3.48% for flower, and 3.09% for concentrates. When converted to percentages, the label and analyzed differences were 15.2% for flower and 4.13% for concentrates.



Cinnamon Bidwell, PhD
Institute of Cognitive Science Faculty,
Assistant Professor, University of Colorado Boulder



high potency status. More analysis of the discrepancies among the labeling claims versus actual cannabinoid content in flower is required. In addition, the regular presence of minor cannabinoids in recreational products suggests that monitoring the presence and studying the health effects of these cannabinoids is going to be important for the cannabis consumer going forward. This work will guide the improvement of the current legal-cannabis marketplace with a renewed focus on consumer safety.

The samples being evaluated here were purchased from the Colorado legal-cannabis marketplace as part of the ICR funded research. Samples were analyzed for total THC and select minor cannabinoid potency in Dr. Mackie's laboratory.



What's not on the label?

In most samples analyzed, one or more minor cannabinoids were identified, some making up more than 1.0% by mass of the product. Indeed, CBG was quantifiable in 93% of samples, CBGA in 67%, CBC 48%, THCV in 40%, and Δ -8 THC in 25% of samples.

Principal Investigator, ►
Dr. Duncan Mackie (front),
reviewing the most recent HPLC
data with Dr. Colin Brook (rear).





Dissecting the Genetic Basis of Sex and Dioecy in Cannabis Sativa For the benefit of the Colorado Hemp Economy

Nolan Kane, PhD

Associate Professor, Ecology and Evolutionary Biology, University of Colorado Boulder

In his second year, Dr. Kane has begun to produce research products that allow the mapping of genes which interact with the sex chromosomes of cannabis. The mapping leads the way for an understanding of the genetics underlying why some hemp produces pollen, some produce seeds, and some produce both. This is important to farmers and growers because cannabis females produce the valuable medicinal flower that underlies most of the Colorado Cannabis industry. This female flower loses much of its value if pollinated. Thus, any pollen production is extremely costly, causing dramatic loss of profit for producers. Thus, this important work is helping to improve the economic outlook for the Colorado hemp industry, which is the largest in the country, as well as the outlook for the greater cannabis industry at large.

The lab's biggest finding so far was published last year, and showed the major parts of the genome that contribute to sex determination: *Mitochondrial genomes do not appear to regulate flowering pattern/ reproductive strategy in Cannabis sativa*. Z. Attia, C. Pogoda, D. Vergara, and N.C. Kane, *AoB PLANTS*, Vol. 14, Issue 3, June 2022, plab068, <https://doi.org/10.1093/aobpla/plab068>.

In addition to this publication, the researchers have generated thousands of seeds for new genotypes of hemp and are currently characterizing these genotypes and comparing them to other Cannabis and related genera (especially hops) to understand the relationship in their sex-determining mechanisms. Some of these new genomes produced, for the first time in Cannabis, X and Y chromosomes from male, female and hermaphrodite plants. A second publication describing these findings is in progress.

Leonardo Orozco



"ICR funding has been instrumental in all of my research. The existence of ICR should be a model for other states, as it drives research, innovation and training, incentivizing Colorado institutions to invest in Cannabis science."

Leonardo Orozco is a leader for the project as part of his PhD dissertation. Leo is a native Spanish speaker, and the first person in his family to seek an advanced degree.



Exploring Intoxication During Acute Alcohol and Cannabis Co-Administration: A Focus on Cannabinoid Content and Order Effects

Karoly Hollis

Assistant Professor, Department of Psychology, Colorado State University

This research is one of the only existing studies to date that is focused on measuring how legal-market cannabis concentrates (which contain very high levels of THC) impact people's mood and motor performance. This is important because since in Colorado have access to these high-THC products at dispensaries, but there is very little data showing how these products impact people's cognitive, psychological, and motor function.

The study is also the only project ever to study the effects of combining cannabis concentrates with a dose of alcohol. People frequently co-use alcohol and cannabis, but there is very limited data on how combining alcohol with very high potency cannabis products might impact people's mood and ability to function.

The study is also collecting blood samples to quantify the amount of THC in each participant's blood before and after using cannabis concentrates along with alcohol. This will serve as an objective measure of THC

exposure to control for the fact that people may use different amounts of THC during the study.

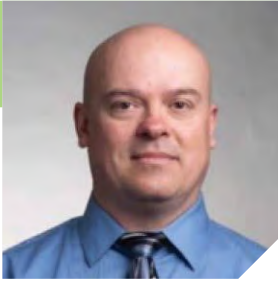
This research project also involves a PhD student who will go on to be a leading cannabis researcher for Colorado in the future.

Eleftherios Hetelekides



"Through my work leading this complex human research study, I have developed organizational and leadership skills that will continue to serve me throughout my PhD program and my career. I have also been learning phlebotomy to collect blood samples from study participants, which we will analyze along with various other subjective and objective measures of cannabis and alcohol intoxication. I have thoroughly enjoyed learning this methodology for collecting data, and I look forward to analyzing the data and relating these objective measures like blood-THC content to relevant psychological outcome variables."





Chemical modification of cannabinoids and extraction processes to make new therapeutics for treating human disease

Ken Olejar, PhD
Colorado State University Pueblo, Chemistry Department

Cannabinoids produced by industrial hemp are important for potential medical use. One problem, however, is that when

these compounds are administered, the levels actually found in the bloodstream are often below therapeutic levels. As such, mechanisms for increasing the bio-availability of these compounds are required. Dr. Olejar's research is, therefore, aimed at producing novel cannabinoids with increased bioavailability. These new compounds will go on to be tested for their potential medicinal value.

So far, the project has created two novel cannabinoids based on CBD. These new compounds are currently being tested for their possible benefits in rheumatoid arthritis and breast cancer.

The researchers have also developed a new method for synthesis of minor cannabinoids from hemp during the extraction process. This method reduces the environmental impact of the extraction and purification process, with the added benefit that the minor cannabinoids are produced in the hemp plant. This technology will ultimately be able to provide safe and pure minor cannabinoids for research and disease prevention.

The project has also created five additional molecules which are being isolated and characterized to determine their possible efficacy for use in disease states. Exploring the potential health benefits of these new

cannabinoids will ultimately increasing the options that Coloradans will have for accessing safe and well-tested therapeutics that were previously non-existent.

Dr. Olejar employs a post-doctoral researcher, Dr. Urvashi, who is being further trained as she assists with this important new drug development project.

Dr. Urvashi
Colorado State University Pueblo,
Chemistry Department



"Working on the current research, which is funded by the Institute for Cannabis Research, is allowing me to develop the abilities required to become a competent and advanced synthetic cannabis chemist. This is expanding my present understanding and expertise of physiologically relevant heterocyclic (-N, -O) compounds and their separation. The project is assisting and supporting me, in the acquisition of competence, in addition to novel late-stage functionalization techniques and operative abilities in analytical instrumentation. Furthermore, this opens additional avenues for new funding opportunities besides the currently available cannabis opportunities. The supervision has provided the instruction required to develop proficiency in comprehending the variables that affect synthetic cannabis chemistry."



Effects of Acute Cannabis Use on Ocular Activity for Preventing Impaired Driving

Ashley Brooks-Russell PhD
Associate Professor, Director [IVPC], Colorado School of Public Health,
University of Colorado Anschutz Medical Campus

This research project is testing innovative approaches to identify and help prevent cannabis impaired driving. The project uses human eye tracking to detect the impact of Cannabis intoxication on involuntary eye movements. These eye movements can be tracked using in-vehicle Driver Monitoring Systems, to identify and prevent impaired driving. (This is similar to the passive anti-drunk driving technology that is emerging in the auto industry.) This research involves an international collaboration with

Seeing Machines, and integrates their driving monitoring technology with the projects driving simulator.

So far, head position and eye movement data from participants driving in the simulator has been collected before and after they smoke cannabis. Importantly, the study recruits participants with a range of cannabis use histories, ranging from occasionally to daily, and they use real-world cannabis products including high THC concentrate products.

The results from this study will support the development and refinement of passive driver monitoring systems that can identify drug impairment among drivers before it leads to a motor vehicle crash injury or fatality.



Effects of Cannabidiol and Cannabidiol-trazodone Treatment on Alzheimer's Disease

Stephanie McGrath, PhD
Associate Professor, Neurology, Colorado State University

This unique research project is studying the potential use of CBD as a treatment for dementia in dogs which have a naturally occurring form of dementia. This is an ideal research model for

Alzheimer's disease, and using it has potential to increase the chance of translating the results of the study to human medicine, when compared to rodent studies which often don't translate well to in human clinical trials.





Cannabis use and Suicidal Tendencies in Colorado's Youth 169

Jarrod Ellingson, PhD

Assistant Professor, Psychiatry-Substance Dependence, University of Colorado School of Medicine

Limited research has suggested a possible association between cannabis use and suicidal tendencies; however, no studies to date have controlled for genetic influences, which confounds a clear interpretation of results. Therefore, this unique study compares siblings who differ on their cannabis use to control for genetic variability. In addition, most studies on cannabis use have not considered product potency or the content of minor cannabinoids, which differ greatly for legal-market cannabis products as compared to those in non-legal states. To address this, the study measures levels of a spectrum of cannabinoids in the blood stream, and evaluates their relationship to a variety of human health outcomes.

Most notably, this work has discovered that cannabis use is associated with suicidality, even after controlling for genetic factors. Future research will be needed to determine whether this suicidality is caused by cannabis consumption, or whether people with suicidal tendencies gravitate towards cannabis use.

This study is training a next-generation cannabis researcher as an integral part of the work.

Elisa Stern



"I have been centrally involved in a study examining the relationship between adolescent cannabis use and later life suicidality. This ICR funded project has allowed me to receive fantastic mentorship, under which I have learned advanced behavioral genetic statistical analytic methods, among other skills. I am grateful to have had the opportunity to contribute to such meaningful research and am enthusiastic about using what I have learned from this experience throughout my career."



Comparison of Cannabinoids to Pain Medication for Surgical Outcomes with Patients Undergoing Abdominal Cancer Surgery

Camille Stewart, MD

Assistant Professor of Surgery, Division of Surgical Oncology, University of Colorado Anschutz Medical Campus

This project is determining if post-operative pain medication requirements are different between chronic users and non-users of cannabis products who undergo abdominal cancer surgery. The research compares blood levels of endo- and phyto-cannabinoid concentrations in chronic users versus non-users of cannabis products, and evaluates post-operative complications.

The research has already shown that many patients who undergo abdominal surgery for the treatment of cancer are chronic cannabinoid

users but that some patients who reported chronic cannabinoid use did not have detectable levels of cannabinoids at the time of surgery. Further, some patients

who reported non-use did have detectable levels of cannabinoids at the time of surgery. This highlights the importance of plasma analysis for detecting cannabinoids in studies focusing on these substances, rather than relying on patient self-report.

Most notably, preliminary results are showing that chronic cannabinoid users have higher reported pain levels and require more opioids after surgery compared to non-users.

Interesting facts related to this research:

Severe pain is a common symptom after surgery, and cancer, and both conditions can have medical cannabis prescribed as a treatment in Colorado. As of March 2023, 55,159 patients reported using medical cannabis for severe pain, and 2,405 patients reported using medical cannabis for treatment of cancer in Colorado. Colorado legalized medicinal cannabis more than 20 years ago and is has the 2nd highest number of cannabis consumers per capita in the United States at 28%. This clearly demonstrates a considerable level of interest, and a possible risk of enhanced pain with cannabis treatment, by our patients.

Of the seven students involved in this research, three are general surgery residents at the University of Colorado (Helen Madsen, MD, Elliott Yee, MD, and Michael Kirsch, MD), two pharmacy graduate students at the University of Colorado (Michelle Adkins, PharmD, and Owen Miller, Pharm D), one nurse practitioner student at the University of Colorado (Cameron Carpizo, RN), and one medical student at the University of Colorado (Emma Lamping, BS) is also involved. Emma was the recipient of the ICR's Emerging Scientist Award which supports cannabis research students across Colorado. Two students are highlighted to the right.



Elliott Yee, MD

"Working with Dr. Stewart on how cannabis can affect pain medication requirements after surgery is very exciting - can't wait for the final results!"

Cameron Carpizo, RN



"This has been my first research position. I am involved in the screening and enrollment portion of Dr. Stewart's cannabis studies. It has been really interesting to learn from our oncology patients regarding their usage of cannabis. I look forward to hearing the results of the studies I am assisting with, to better understand how cannabis effects our patients."



Effects of CBD Consumption During Pregnancy on Fetal Neurodevelopment and Postnatal Anxiety



Emily Bates, PhD

Associate Professor, Pediatrics-Developmental Biology, University of Colorado Anschutz Medical Campus

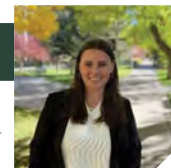
Pregnant women sometimes use cannabis to alleviate their nausea, vomiting, anxiety, and pain. In Colorado, up to 22.4% of pregnant patients test positive for cannabis at labor and delivery. An additional population utilizes the non-psychoactive component of cannabis, cannabidiol (CBD), because marketing sometimes suggests it could help these symptoms and it is perceived to be safe. However, CBD crosses the placenta, circulates in the fetal blood stream, and accumulates in fetal tissues such as the brain and liver, and unfortunately, little is known about the safety of consuming CBD while pregnant.

This study using pregnant mice that consumed CBD, has found that the female offspring have decreased problem-solving ability and changes in neurological function. It also discovered that fetal CBD exposure increased pain sensitivity in male offspring, and most notably, that it

increased blood sugar levels and caused insulin resistance, the hallmarks of diabetes. These findings are important because they show CBD consumption during pregnancy may produce long-term health risks for the children of mothers who consumed it.

This research Project has included two research students. Karli Swenson is featured below.

Karli Swenson



"Without funding from the ICR, I would have been unable to pursue my passion of researching the effect of cannabis consumption during pregnancy on fetal development. This funding allowed our lab to discover novel insights about the impact that fetal CBD exposure has on a developing fetus and continues to allow us to ask scientific questions that help inform our clinical and public health colleagues."

Microbiome-Mediated Effects of Cannabis and CBD on Anxiety



Nichole Reisdorph, PhD

Professor Mass Spectrometry Facility Director, Department of Pharmaceutical Sciences, University of Colorado Anschutz Medical Campus

It is known that neurological function in the digestive tract has a profound influence on mood and anxiety-related behaviors including depression, however, the nervous system of the digestive tract, known as the enteric nervous system, is very complex and a much better understanding of how it influences mood-behavior is needed for the development of useful therapeutics. Therefore, this project is determining how regular ingestion of Cannabis effects the enteric nervous system's contribution to anxiety-behavior in a rodent model. Most interestingly, the study is showing ways that the make-up of the microbiome in the digestive-tract can influence these health outcomes. The research measures both anxiety-behavior, the composition of the microbiome in the digestive tract, and levels of mood-related neurotransmitters and endocannabinoids in mice who are fed Cannabis.

Early results are showing that consuming small amounts of Cannabis, for only two weeks, changes the composition of the gut microbiome and increases anxiety in females, but not males. This is leading to an understanding that ingesting Cannabis, by changing the gut microbiome, which in-turn affects the production of mood-altering neurotransmitters in the digestive tract, can impact anxiety-like behavior. It also, like other ICR-sponsored research, is painting a picture of how cannabis can have markedly different effects on health depending on gender. This is paving the way for future work that will determine whether the presence of certain bacteria in the microbiome of people might be important for predicting how they will react to cannabis as a possible therapy for anxiety-related disorders.

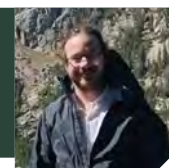
One added, and very interesting result of this work, is it showed that ingestion of cannabis reduced the natural production of endocannabinoids in the blood and brain. This suggests that individuals may adjust to regular Cannabis consumption with a reduction in their

own endocannabinoid production. The endocannabinoid system is a natural and powerful part of how everyone's nervous function is regulated. It is known to be critical for helping to control mood, anxiety, depression, and many other very important health benchmarks. Therefore, understanding how the endocannabinoid system reacts to phyto-cannabinoids delivered to the digestive tract is critical to understanding the overall health impacts of cannabis.

This study involves a number of collaborators and students, including Mr. Nate Andersen, a graduate student at the University of Colorado Boulder, who helped design and conduct these studies under the guidance of a behavioral expert, Dr. Nicolas Busquet at CU-AMC and Dr. Christopher Lowry, one of the recently-funder ICR researchers featured above.

Nathan Andersen, M.S., Ph.D. Student

Dept Integrative Physiology, University of Colorado Boulder, and Recipient of the ICR's Emerging Scientist grant



"I am profoundly grateful for the ongoing opportunity to be involved with this project. With guidance from Dr. Lowry, I have been able to bring some small modicum of my own developing expertise into this incredibly important and vastly understudied area of research. It's incredibly exciting to work on something that has the potential to impact so many people in a positive way and to work with world experts in several scientific techniques. The collaborative nature of Dr. Reisdorph's project and research style has enabled me to receive training and mentorship from several expert scientists at every level of research, from experimental design to data analysis. I aspire to one day reach the caliber of work that they each put forth and their mentorship is directly giving me the tools I'll need to do so. Most importantly to me, working on this project gives me the chance to contribute to something that could truly help countless people by increasing our understanding of the health impacts of oral Cannabis use"



ICR INTERNAL RESEARCH

Dr. Sang Park is a highly accomplished plant molecular biologist who has led cannabis and cannabinoid research projects at the Institute of Cannabis Research (ICR) since 2017. His primary objective is to investigate the impact of environmental factors on cannabis growth and cannabinoid production, with the aim of developing an ideal cultivation system that maximizes cannabinoid quality and quantity. In collaboration with Chuncheon Bioindustry Foundation in South Korea, Dr. Park's team has identified significant effects of relative humidity (RH) on plant development, particularly high RH elongating stem growth and delaying flowering of cannabis, which also affects cannabinoid profiles.

Dr. Park's research also focuses on nutrient deficiencies in cannabis plants, with the aim of optimizing essential nutrient requirements in specific growth phases to increase cannabinoid yields while minimizing nutrient waste and chemical toxicity caused by excess application. He is also exploring the role of cannabis soil microbial communities in promoting plant growth and development, aiming to use soilborne Bacilli strains to enhance cannabis seed germination, increase soil phosphorus bioavailability, and regulate the microbial pathogen *F. oxysporum*.

In addition to his cannabis research, Dr. Park is investigating the therapeutic functions of cannabinoids using a non-traditional model system. He has used the tobacco hornworm as an alternative model system to test phytocannabinoids, discovering that cannabidiol has a dual function as an insecticidal agent and can rescue insects from alcohol intoxication. Dr. Park believes that this model system could provide an alternative tool for high-throughput investigation of cannabinoids.

Dr. Park is committed to sharing his knowledge through teaching, research publications, attending conferences and seminars, and mentoring students in CSUP research programs. He is also a research liaison at ICR, building collaborations with countries such as South Korea, Spain, Israel, and Canada. Currently, he chairs the hemp cultivation webinar series sponsored by ICR and the Volcani Institute in Israel. Dr. Park welcomes any research collaboration to advance cannabis sciences for future generations. Interested parties may contact him at Sanghyuck.park@csupueblo.edu for further inquiries.





ICR INTERNAL RESEARCH VISITING RESEARCHER

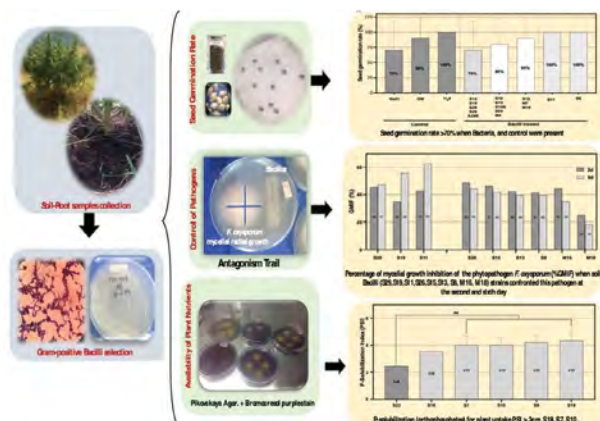


Carolina Corredor Perilla

Important soil bacteria functions in Seed Germination of Cannabis, Phosphorus solubilization and Mycelial Growth Inhibition of *Fusarium* sp. in *Cannabis sativa*. L.

Microbial inhabitants of Cannabis soils may accomplish relevant functions to improve plant development, pathogen control, and nutrient availability. This study was performed in Cannabis soils, assessing if the soil culturable bacteria next to plant roots showed prospective beneficial properties for Cannabis development. We isolated 265 microorganisms in total. We chose only Gram-positive Bacilli to determine the effects of these bacteria in Cannabis seed germination, phosphorus Bioavailability and control of a Cannabis pathogen. The results showed that 10 Bacilli strains exhibited seed germination rates superior to the 80% showing potentials properties to stimulate seed germination after eight-month storage, and a seed pretreatment. Nine Bacilli showed a significant mycelial growth reduction of *Fusarium* sp. with a range of 62.8% and 25% after a 6-day trial. Six Bacilli strains increased the solubilization of phosphorus for plant use by reaching an index of P-solubilization between 2.48-4.35 mm in petri dishes.

This study showed that there are soil-root bacteria from Cannabis cultivars that have beneficial activities corresponding to the stimulation of seed germination after long storage and pretreatments (10 Bacilli, n=31,); Some Bacilli were able to increase the bioavailability of phosphorus (six Bacilli, n=31, $P < 0.05$) and regulated the mycelial growth of *F. oxysporum* (9 Bacilli, n=31, $P < 0.05$). These preliminary results showed the possible benefits of soil Bacilli strains in Cannabis cultivation. These potential bacteria could be worthy to further study their direct interactions and effectiveness in Cannabis cultivars, with the prospective vision of an industrial scale as possible biostimulants of Cannabis.





International collaboration with South Korea on hemp research

The Chuncheon Bioindustry Foundation (CBF) is an institute that supports and develops the bio-industry in Chuncheon City and Gangwon Province, South Korea. In February 2019, ICR signed an MOU with CBF to collaborate on research topics of mutual interest and benefit. As a result of this continued collaboration, the ICR research team, led by Dr. Sang Park, participated in the CBF national grant proposal titled “Developing R&D Infrastructure for the Industrial Uses of Hemp and its Derivatives in South Korea.” The proposal included three university/research institutes and seven industrial partners.

On May 14, 2021, the CBF’s research grant proposal was selected as one of only three awardees among the nine provinces’ applications, and CBF will receive a total of \$13M. CBF will lead the five-year project through partnerships with national universities and research institutes in South Korea, exploring cannabinoid therapeutic potentials and industrializing hemp products and derivatives. As a part of the national project, ICR will engage in the hemp breeding program and infrastructure development processes required for cannabinoid production.

ICR INTERNAL RESEARCH STUDENT RESEARCHERS



Christopher Moody

Discovery Scholar Program at CSUP and the winner of Demo Day contest at Colorado State University – Fort Collins in the category for the Most Innovative Product Idea

“The opportunity I have had to work with the Institute of Cannabis Research has allowed me to learn more about cannabis and grow my business. Also, thank you, Dr. Park, for your constant encouragement, guidance, and belief in my vision”

Chaylen Richards

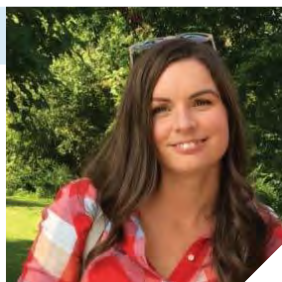
Discovery Scholars Program at CSUP

“Having been given the opportunity to join in on cutting edge research regarding Cannabis and cannabinoids at CSUP has been a dream come true. Working with Dr. Park, the Senior Scientist of the ICR, I have been involved in studying the central precursor cannabinoid molecule cannabigerolic acid (CBGA) using Tobacco Hornworms (Manduca sexta) as an insect model showing results indicative of its possible insecticidal properties. The direct hands-on experience in using laboratory equipment, researching, presenting at symposiums, and writing papers for journal submission has been invaluable in the process of preparing me for a career in research. The people I’ve met have inspired me to continue pursuing research in Cannabis and its boundless possibilities ranging from pharmaceutical, textile, and industrial applications and I look forward to the discoveries along the way!”



EMERGING SCIENTIST SCHOLARS

ICR is additionally supporting students who have received the ICR's Emerging Scientist Award this year. This award represents one of the many ways the ICR is supporting the highest quality education for the next generation of cannabis researchers in the state of Colorado.



Renée Martin-Willett

"With this award, I will be able to dedicate a greater portion of time to my interests in the neurobiology of aging, an important track of research in my training. I will also be presenting recent findings at

the 33rd Annual International Cannabinoid Research Society Symposium in Toronto, Ontario this June."



Lillian Folts

"The Emerging Scientist Award from the Institute of Cannabis Research has been incredibly impactful to my career development and training as a developmental biologist. This scholarship is enabling me to

present my research and network with scientists in my field at two national conferences, the Society for Developmental Biology Annual Meeting and the Institute of Cannabis Annual Conference. Additionally, the funds from the Emerging Scientist Award have allowed me to perform experiments that earned me authorship on two manuscripts, one of which was recently published in Molecular Psychiatry and the other is set to be submitted for publication soon. The Emerging Scientist Award has provided me with career development and scientific training opportunities that would otherwise be inaccessible."



Ashley Master

"Thanks to funding from ICR, I've been able to more fully dedicate my time and energy to a novel and fascinating study on the accuracy of cannabis product labels. The stipend has been so helpful in relieving the financial stress of grad school!"



FY 2023 BUDGET REPORT

The ICR received 2.8M in funding from the state of Colorado to fund cannabis research this year. The annual budget is used to support the mission of the ICR as outlined in Colorado HB19-1311,

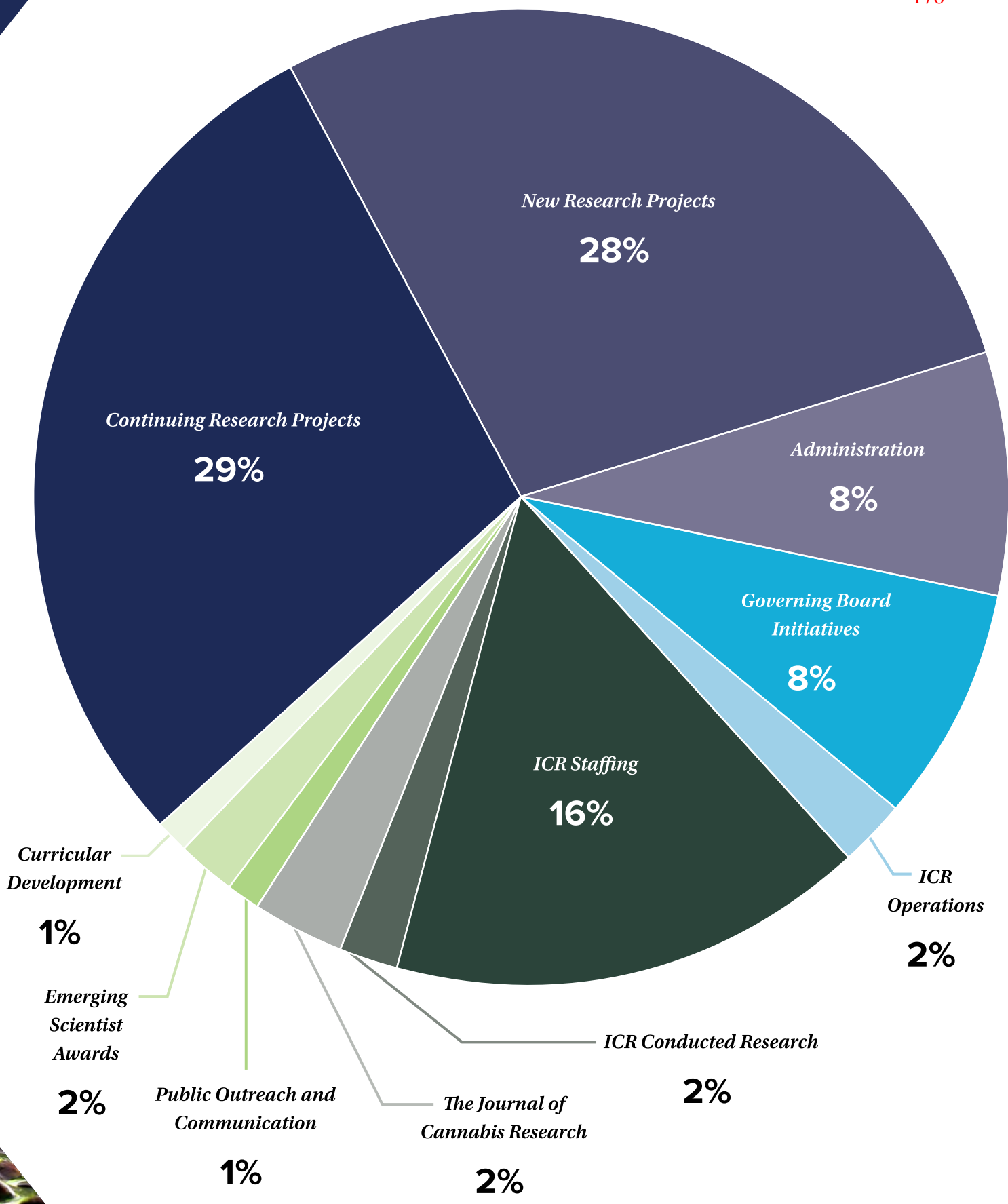
“TO CONDUCT RESEARCH RELATED TO CANNABIS, INCLUDING CLINICAL RESEARCH, BIOTECHNOLOGIES, CLINICAL STUDIES, THE EFFICACIES OF MEDICAL MARIJUANA, AND ECONOMIC DEVELOPMENT ASSOCIATED WITH CANNABIS IN COLORADO, AND TO PUBLICLY DISSEMINATE THE RESULTS OF THE RESEARCH.”

Over two thirds of the budget was allocated for cannabis research as reflected in the combined budget categories of: ***Continuing Research Projects, New Research Projects, Governing Board Initiatives, and ICR Conducted Research.*** The remaining one third of the budget was spent on the following:

ICR staffing and administration necessary to implement the competitive research proposal review process and project administration, 26%; student support and educational initiatives, 3%; the Journal of Cannabis research and public outreach, 3%.

The Colorado legislature this year increased the annual budget of the ICR by 1M. This increase will be realized in the annual ICR budget next year, which will total 3.8M. The additional budget will be allocated to funding new research projects which will be conducted by Colorado’s best and brightest cannabis researchers following the ICR’s rigorous application and scientific review process. It will also support an entirely new line of research which the ICR will conduct at its laboratories at CSU-Pueblo. This will double the internal research capacity of the ICR and expand its scope or research highlighted above (see p16-18) to include biomedical/analytical types of research.





KEYNOTE SPEAKERS

Cannabis Research Conference 2023 and the Mechoulam Lecture Series

Esther Shohami, PhD received her doctorate in Physiology from the Hebrew University (HU), Jerusalem, Israel and did her post-doc at MC-Gill University in Montreal, Canada. She later joined the HU School of Pharmacy at the faculty of medicine and is currently a Professor Emerita in Pharmacology at the HU Institute for Drug Research. Between 2006 - 2011 she served as the Dean of students at her University, and between 2012-2014 as the president of the Israel Society for Neuroscience. She is a member of the executive board of the International Neurotrauma Society (INTS) and serves on the editorial boards of J. Neurotrauma. She also served as a council member of the US National Neurotrauma Society and on the editorial board of J. CBF & M.

Prof. Shohami has published more than 220 articles, reviews, and book chapters. Her research is focused on experimental traumatic brain injury (TBI) in rodents and addresses mechanisms of injury (e.g. inflammation, oxidative stress, the glutamate NMDAR) and endogenous neuroprotection (e.g. endocannabinoids and heat-acclimation induced preconditioning). Currently, her work focuses on the effects of TBI on cognitive functions and on mechanisms involved in ameliorating these TBI-induced deficits. She also studies the involvement of the endocannabinoid system in the pathophysiology and rehabilitation after TBI and is involved in developing cannabinoid-like novel drugs for TBI.

Keynote Lecture

Sofia Thanhauser is the author of *Worn: A People's History of Clothing* (Pantheon, 2022). She teaches in the writing department at Pratt Institute. She has received fellowships from the Fulbright Program, MacDowell, and Ucross Foundation. Her writing has appeared in *The Guardian*, *Vox*, *Essay Daily*, and *The Establishment*, among other publications.

Featured Speaker

Sergiy Kovalenkov is one of the most renowned hemp builders in the world and has been part of the hemp-building industry for more than 12 years.

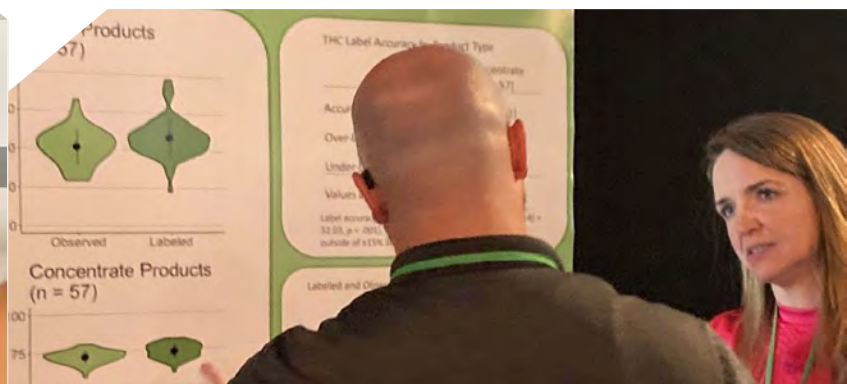
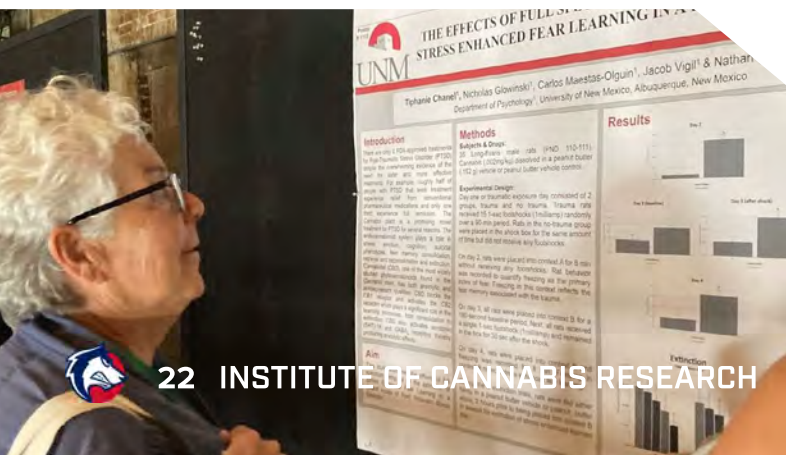
In 2015, he founded "Hempire UA" in Ukraine, the company which has developed a 100% natural "Fifth Element" binder that, when mixed with hemp and water, would create one of the lightest, carbon-negative hempcrete insulation on the planet, called Hempire Mix. Until the Russian invasion in 2022, under Sergiy's command, Hempire has been one of the leaders in the hempcrete industry, picking up high recognition and numerous awards during international green tech and environmental contests while successfully supplying the Ukrainian and EU markets with its innovative products. Over the last few years, Hempire has constantly been working towards bringing new products to the market, such as: new hemp-based insulation panels with natural adhesives, pre-bagged hemp-lime plaster, and hemp-clay pasters. Many projects have been completed using Hempire products.

In 2018 Sergiy founded Hempire USA in California to start the company's activities on the North American market. Now the company offers exclusive binder production and distribution licenses across different states as the industry recovers after COVID restrictions.

Mr. Kovalenkov possesses vast experience and knowledge in the field of energy efficiency and green building. He is frequently invited as a speaker to numerous hemp, green tech, and environmental conferences in the following countries: the USA, Canada, Japan, Italy, China, the UK, and others.

Sergiy is one of the founders of the US Hemp Building Association and was occupying the position of director of the Education Committee, that is focusing on providing the North American building industry with essential information on hemp-based construction materials.

Now Sergiy, along with Hempire, is focusing on helping companies worldwide set up hemp processing and manufacturing facilities to speed up the construction industry's transition towards more sustainable products.



OUTREACH & IMPACTS OF ICR

E-NEWSLETTER

The ICR bimonthly e-newsletter has been steadily building momentum for the past 4 years. Our distribution list is now over 4000 subscribers and growing each month. We continue to spotlight our partnerships and highlight the research taking place here at CSU Pueblo. We also feature state funded research being performed at regional institutions across Colorado including CSU Ft. Collins, Anschutz, and the University of Colorado. Twice a month we host two webinar series with the best and the brightest researchers from across the state, nation, and globe who speak about medical, agricultural, pharmacological and many other topics of interest in the cannabis space. We have partnerships in Israel, South Korea, doctoral candidates from as far away as

Colombia and Brazil, and have had visiting researchers from Spain and South Korea. Our annual conference is one of the only one of its type in the country focused on cannabis research and the newsletter aids in the distribution of this information and offers another opportunity to register and/or sponsor this event. We are affiliated with the Journal of Cannabis Research and highlight articles from this research publication within our newsletter for anyone to link to and read. This newsletter is archived on our website csupueblo.edu/institute-of-cannabis-research/outreach/index.html and anyone is welcome to sign up to receive this in their email box.

WEBINARS

Cultivation Webinar Series

Since the kickoff of the hemp cultivation webinar in February 2022, we have had the privilege of hosting over 15 renowned professors and attracting more than 750 attendees from countries worldwide. The webinar has covered a wide range of topics, including cannabis physiology, pharmacology, cultivation, risk management, and resource utilization. These webinar series have provided valuable information on both the basics of cultivation and highlighted the importance and utilization of agricultural by-products, including cannabinoids, seeds, fibers, etc.

Our main partner, the Volcani Institute in Israel, has played a pivotal role in organizing the webinar and extending its global reach by connecting with international partners. Working closely with the Volcani Center, ICR aims to engage with more cannabis cultivators, researchers, and industrial experts worldwide, contributing not only to the advancement of cannabis science but also to agricultural practices, given the increasing demand for cannabis cultivation.

We cordially invite you to join our monthly webinar series, where we delve into the exciting world of cannabis sciences. Your participation and feedback will be invaluable to anyone who is eager to learn about this emerging crop and its potential applications in medicine, agriculture, and industry.

Research Webinar Series

The Institute of Cannabis Research has hosted the Cannabis Research Webinar series since October 2020. The series focuses

on allowing expert speakers on various cannabis-related endeavors to present their research and information.

Presenters for this webinar series speak on topics ranging from medical science and public policy to industrial perspectives to cannabis research funding opportunities. These webinars are co-sponsored by the Institute of Cannabis Research at CSU Pueblo and the Lambert Center at Thomas Jefferson University. This webinar series regularly schedules a presentation on the second Thursday of each month at 1 PM Mountain time, held on Zoom. Recordings of the webinars are made available on our website shortly after the live presentation.

Recent webinars have included Dr. Jessica S. Kruger, speaking on “The Alphabet Soup of Alternative Cannabinoids,” Dr. Adie Rae Wilson-Poe, providing an overview on “The Unintended Negative Impact of Adult-Use Cannabis Legalization on The Wellbeing of Medical Cannabis Patients,” Dr. Shawn Hauser, addressing a “Cannabis Legislative and Policy Update,” Dr. Jordan Tishler, addressing “Why We Need A More Medical Medical-Cannabis System,” Dr. Cinnamon Bidwell, providing an overview of “Cannabis Psychopharmacology and Harm Reduction,” Dr. Cecilia Hillard, on her research with “the role of endocannabinoid signaling in the regulation of mood and responses to stress,” as a few examples.

The webinar is free and open to the public, and registration and past webinars are archived at csupueblo.edu/institute-of-cannabis-research/webinars/cannabis-research-webinar-series.html

csupueblo.edu/institute-of-cannabis-research/research/research-studies/index.html



The Journal of Cannabis Research (JCR) began accepting manuscripts in Sept., 2018. This 5th year of publication continues the journal's solid growth and international scope. We have a distinguished international editorial board comprising 36 prominent cannabis scientists from 10 countries on five continents. Our 10 topic sections comprehensively cover all aspects of cannabis, cannabinoid, and endocannabinoid science, both preclinical and clinical, as well as cannabis economics, regulation, and history.

JCR is the only international, multi-disciplinary journal in the cannabis field that is open-access. Anyone in the world can find our articles on our web site or on PubMed and read them without paying a fee. This makes our articles readily accessible to those in low-income countries or without access to an academic library. In FY 2022, JCR articles were downloaded 144,140 times, an average of 3,793 downloads per article. They had 950 altmetric mentions, averaging 28 mentions per article. The enhanced visibility and international reach of articles published in JCR is an advantage to authors when deciding on where to submit their manuscripts for publication.

During FY 2022 (July 1, 2022 through April 30, 2022), 58 manuscripts were submitted from 16 different countries (half from the US) on all continents except Antarctica. Our manuscript acceptance rate of 44% is comparable to that of many established journals.

JCR is now included in 3 major online indexing services: PubMed, Web of Science, and Scopus. We expect to have assigned performance metrics (e.g., Impact Factor) sometime next year. JCR is a member of two respected international societies: Committee on Publication Ethics and International Society of Addiction Journal Editors. This membership is evidence of the trust in which JCR is held by other scholarly journals.

David A. Gorelick, MD, PhD, DLFAPA, FASAM
Director, Journal of Cannabis Research

JCR: AIMS



Disseminate high-quality, peer-reviewed cannabis knowledge to a broad, international, multi-disciplinary audience, including:

- biomedical, agricultural, environmental, and social scientists
- clinicians
- economists & business experts
- lawyers
- ethicists
- public health and public policy experts
- public officials



Provide outlet for scholars of all disciplines and levels of professional standing to contribute to cannabis knowledge.



Provide forum for multidisciplinary collaboration and innovation in the cannabis field.



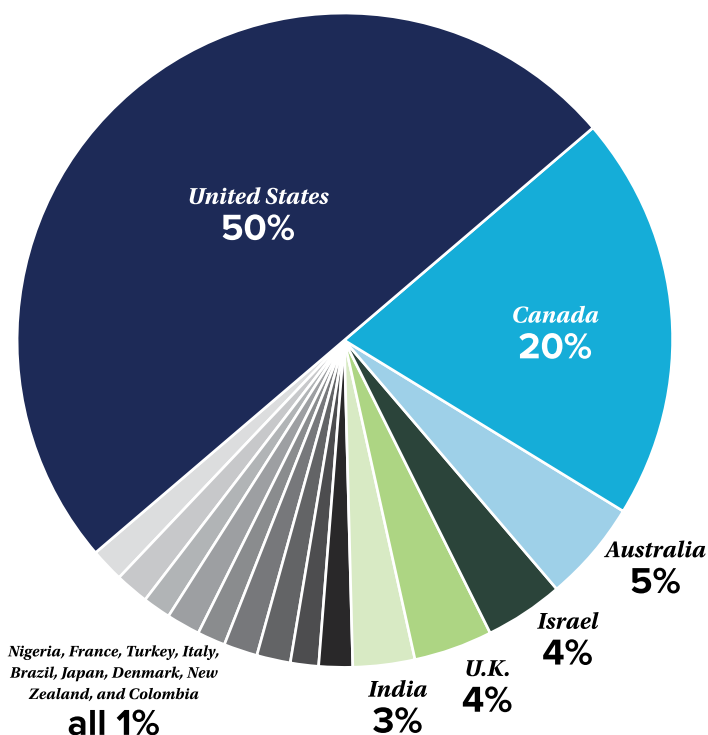
JCR: SCOPE AGRICULTURE AND PLANT BIOLOGY

- Cannabis and cannabinoids: biochemistry and genetics
- Cannabis and cannabinoids: preclinical pharmacology
- Cannabis and cannabinoids clinical pharmacology
- Endocannabinoid system
- Cannabis-related disorders
- Epidemiology and public health
- Medical cannabis
- Commerce, business, and environment
- History, regulation, and public policy

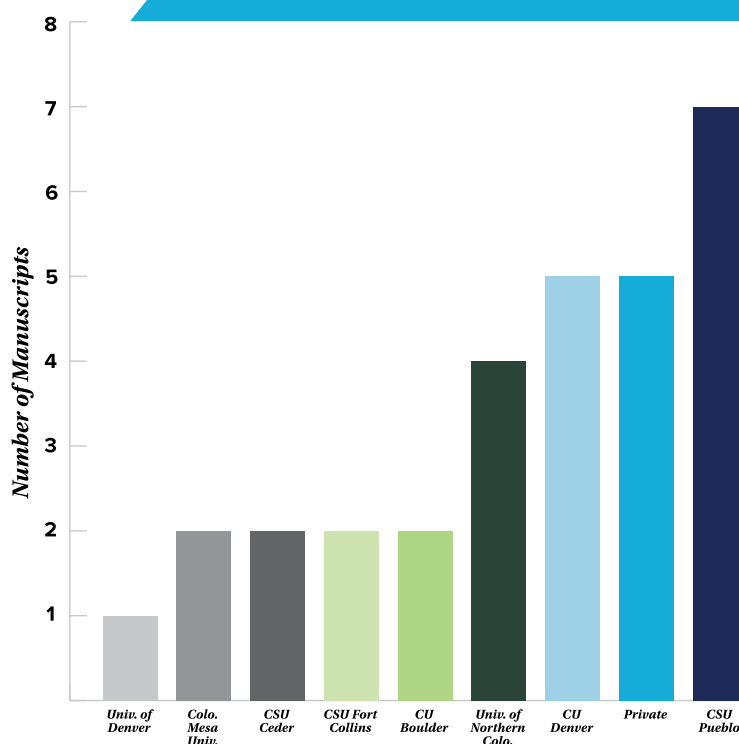
The Journal of Cannabis Research is the only multidisciplinary, international, open-access, cannabis-focused journal: 470 manuscripts submitted, 178 manuscripts accepted.

Please find the link to the Journal of Cannabis Research here: jcanabisresearch.biomedcentral.com

GEOGRAPHIC DISTRIBUTION OF SUBMITTED MANUSCRIPTS



30 JCR ACCEPTED MANUSCRIPTS FROM COLORADO AUTHORS



THE OUTCOME OF FINAL EDITORIAL REVIEW FOR MANUSCRIPTS SUBMITTED IN FY2022



DISSEMINATION ACTIVITIES

181

The cannabis research which the ICR administers and conducts is published in leading peer-reviewed scientific journals and presented at scientific conferences. This new scientific knowledge is thereby made available to the greater scientific community on a local, national, and international level and so is available to guide best practices in cannabis related decision-making processes based on solid science.

The ICR's initial research projects, first funded in 2021, are just maturing to the point of producing high quality peer-reviewed research publications. The following publications were produced by ICR-funded researchers in Colorado this year:

Swenson, K. S., Gomez Wulschner, L. E., Hoelscher, V. M., Folts, L., Korth, K. M., Oh, W. C., & Bates, E. A. (2023). Fetal cannabidiol (CBD) exposure alters thermal pain sensitivity, problem-solving, and prefrontal cortex excitability. *Molecular psychiatry*, 10.1038/s41380-023-02130-y. Advance online publication. <https://doi.org/10.1038/s41380-023-02130-y>.

Karoly, H. C., Prince, M. A., Emery, N. N., Smith, E. E.*, Piercey, C. J.*, & Conner, B. T. (2022). Protocol for a mobile laboratory study of co-administration of cannabis concentrates with a standard alcohol dose in humans. *Plos one*, 17(11), e0277123.

Arkell, T. R., Brooks-Russell, A., Downey, L. A., Shiferaw, B., Brown, T., Sherrick, J., & Hayley, A. C. (2022). Effects of psychotropic drugs on ocular parameters relevant to traffic safety: A systematic review. *Neuroscience & Biobehavioral Reviews*, 104831.

In addition, ICR researchers report having several articles under peer-review for publication in the near future.

Selected titles include:

Fetal Cannabidiol (CBD) Exposure Induces Offspring Diabetes in a Sex and Dose Dependent Manner.

Marijuana for Morning Sickness: The Current State of Cannabis Consumption During Pregnancy.

Effects of oral Cannabis and intraperitoneal THC:CBD dosing on mouse physiology and brain and plasma neurochemicals and endocannabinoids.

Metabolomics reveals differences in Cannabis metabolomes following a variety of preparation methods.

ICR researchers also presented several abstracts at scientific conferences. Such presentations typically precede peer-reviewed publications like those listed above:

Swenson, K.S., The effect of fetal cannabidiol (CBD) exposure on offspring neurodevelopment, behavior, and metabolism. Middle Atlantic Reproduction and Teratology Association. October 7, 2022.

Swenson, K.S., How fetal cannabidiol (CBD) exposure impacts offspring behavior and neurodevelopment. Colorado Cannabis Research Consortium. July 28, 2022.

Bates, Emily, Marijuana for morning sickness: Is CBD consumption safe during pregnancy? Oral seminar presentation, Department of Pharmacology, University of Colorado Anschutz Medical Campus, August 22, 2022.

Bates, Emily, Marijuana for morning sickness: Is CBD consumption safe during

pregnancy? Denver Community College Cannabis Studies Program Seminar, Oct. 3, 2022.

Bates, Emily, Marijuana for morning sickness: Is CBD consumption safe during pregnancy? Cell, Stem Cell, Development Retreat, Breckenridge, CO, Oct. 7, 2022.

Bates, Emily, Fetal CBD exposure impacts neurodevelopment and postnatal behaviors, Pregnancy Neonatal Research Conference (PNRC) Nov. 10, 2022.

Swenson, K.S., The Effect of Fetal Cannabidiol (CBD) Exposure on Brain Development and Postnatal Behavior. Institute of Cannabis Research 6th Annual Conference, oral presentation. August 20, 2022.

Bates, Emily, Fetal Cannabidiol (CBD) Exposure Affects Hypothalamus Development and Glucose Tolerance, Institute of Cannabis Research 6th Annual Conference, August 21, 2022.

Swenson, K.S., Johnson, A., Sandy, S., Clinical care recommendations for labor and delivery patients who screen positive for cannabis use. Colorado Perinatal Care Quality Collaborative November coaching call. Oral presentation, November 10, 2022.

Swenson, K.S., Bates E.A., Marijuana for morning sickness: How gestational cannabidiol (CBD) consumption effects offspring development. University of Colorado Anschutz Medical Campus Perinatal Research Center. Oral presentation, October 20, 2022.

Swenson, K.S., The Effect of Fetal Cannabidiol (CBD) Exposure on Brain Development and Postnatal Behavior. Society for Neuroscience annual conference, poster presentation. November 15, 2022.

Swenson, K.S., The Effect of Fetal Cannabidiol (CBD) Exposure on Brain Development and Postnatal Behavior. Society for Neuroscience annual conference, Society for Neuroscience NeuroAssociates diversity poster session, poster presentation. November 12, 2022.

Swenson, K.S., The Effect of Fetal Cannabidiol (CBD) Exposure on Offspring Metabolism. Ludeman Family Center for Women's Health Research, National Conference on Sex Differences Across the Lifespan: A Focus on Metabolism, poster presentation. October 13, 2022. -Won Best Poster Award.

Swenson, K.S., The Effect of Fetal Cannabidiol (CBD) Exposure on Brain Development and Postnatal Behavior. Society for Developmental Biology, poster presentation. July 18, 2022.

Swenson, K.S., Gomez Wulschner, L., Hoelscher, V., Oh, W.C., Bates, E.A., Fetal Cannabidiol (CBD) Exposure Decreases Offspring Cognition and Alters Prefrontal Cortex Development in a Sex Dependent Manner. Children's Hospital Colorado Pediatric Research Forum. December 16, 2022

Minne, C., Swenson, K.S., Bates, E.A., Fetal Cannabidiol (CBD) Exposure Alters Offspring Adipose and Pancreatic Development in a Sex Dependent Manner. Children's Hospital Colorado Pediatric Research Forum. December 16, 2022.

Swenson, K.S., Gomez Wulschner, L., Hoelscher, V., Folts, L., Oh, W.C., Bates, E.A., Fetal Cannabidiol (CBD) Exposure Decreases Offspring Cognition and Alters Prefrontal Cortex Development in a Sex Dependent Manner. Front Range Neuroscience Symposium. December 15, 2022.



Swenson, K.S., Gomez Wulschner, L., Hoelscher, V., Oh, W.C., Bates, E.A., Fetal Cannabidiol (CBD) Exposure Decreases Offspring Cognition and Alters Prefrontal Cortex Development in a Sex Dependent Manner. University of Colorado Student Research Forum. December 13, 2022.

Swenson, K.S., Marijuana for morning sickness: How, when, and where pregnant people receive information about safety or risk of consuming cannabis. University of Colorado Anschutz Medical Campus School of Public Health research exchange conference. September 23, 2022.

Swenson, K.S., Marijuana for morning sickness: How, when, and where pregnant people receive information about safety or risk of consuming cannabis. Colorado State University and University of Colorado Research Summit. September 14, 2022.

Korth, K., Swenson, K.S., Bates, E.A. Marijuana use in pregnancy: Understanding how gestational cannabidiol (CBD) effects compulsivity and postnatal tissues. Undergraduate Summer Research Symposium. July 29, 2022.

Swenson, K.S., The Effect of Fetal Cannabidiol (CBD) Exposure on Offspring Metabolism. Diabetes Research Center, University of Colorado | Anschutz Medical Campus, poster presentation. July 29th, 2022.

Folts, L., Swenson, K. S., O'Rourke, R., Bates, E.A. The effect of fetal cannabidiol (CBD) exposure on offspring metabolism. Colorado Clinical and Translational Sciences Institute Annual Winter Pediatric Research Poster Session. Dec. 16, 2022.

Folts, L., Swenson, K. S., Korth, K., Moss, I., O'Rourke, R., E.A. Bates. Gestational cannabidiol (CBD) consumption impacts offspring hypothalamus development and metabolism in a sex-specific manner. University of Colorado Anschutz Medical Campus Annual Student Research Forum. Dec. 13, 2022-Best Cell and Developmental Biology Poster Award – first place.

Karoly HC (2022, July). Observational Laboratory Methods for Studying Co-Administration of Alcohol and Legal Market Cannabis Products. Symposium presented (Chair) at the annual meeting of the Research Society on Marijuana, Boston, MA.

Piercey, CJ, Conner, BT, Prince, MA, Emery, NN & Karoly, HC. Exploring the Effects of Co-Administration of Cannabis Concentrates with a Standard Alcohol Dose: A Focus on Cannabinoid Content and Order Effects. Symposium talk presented at the annual meeting of the Research Society on Marijuana, Boston, MA. (2022).

Piercey, C.* Knox, T**, Prince, M., Emery, N., Conner, B. T., & Karoly, H. (2022, August). Exploring alcohol and cannabis co-administration in human participants. Poster presentation at the Virtual 2022 Cannabis Research Conference.

Brooks-Russell, A. "Cannabis Impaired Driving" Presentation to the Colorado Multiple Institutional Review Board. September, 2022. CU Anschutz.

Brooks-Russell, A. "Effect of tolerance to cannabis on psychomotor performance," International Conference on Traffic and Transport Psychology. August, 2022, Gothenburg, Sweden.

Oral administration of Cannabis results in changes to the metabolome, neurochemicals, and endocannabinoids of mice. (2022) Nichole Reisdorph, Katrina Doenges, Cassandra Levens, Jon Manke, Michael Armstrong, Kevin Quinn, Kristine Kuhn. Institute of Cannabis Research 6th Annual Conference.

Kirsch M, Paglia H, Araujo TB, Madsen H, Rodriguez Franco S, Hammermesh M, Weiss R, Gleisner AL, Schulick RD, Del Chiaro M, Stewart CL. Cannabis Use and Postoperative Outcomes in Patients Undergoing Hepatectomy. Americas Hepatopancreaticobiliary Association annual meeting, 2023, Miami FL.

The ICR conducts its own research which was disseminated at several research conferences and published in several peer-reviewed journal articles this year. These dissemination activities reflect research products of the ICR's current internal research program at CSU-Pueblo.

Publications:

Eun-Soo Kim, Tae-Hyung Kwon, and Sang-Hyuck Park* (2023) "Structural Characteristics of Shells in a Fibrous Cultivar of Cannabis sativa L' Journal of Natural Fibers
*Corresponding author

Ellingson, J. M., Hincley, J. D., Ross, J. M., Schacht, J. P., Bidwell, L. C., Bryan, A. D., Hopfer, C. J., Riggs, P., & Hutchison, K. E. (2021). The neurocognitive effects of cannabis across the lifespan. *Current Behavioral Neuroscience Reports*, 8, 124-133. PMID: PMC9377647 NIHMSID: NIHMS1792283 PMID: 35979200

Kyung-Hwa Jeon, Sang-Hyuck Park, Woong Jin Bae, Sae Woong Kim, Hyo Jung Park, Soomin Kim, Il Bum Park, Hyun-Je Park and Youngjoo Kwon (2022), "Cannabidiol, a Regulator of Intracellular Calcium and Calpain", *Cannabis and Cannabinoid Research*

Kenneth J. Olejar and Sang-Hyuck Park* (2022) "Industrial based misconceptions regarding cross-pollination of Cannabis spp." *Frontiers in Plant Sciences* *First co-author and corresponding author

Kenneth J Olejar, Min Hong, Sun-Yeop Lee, Tae-Hyung Kwon, Soo-Ung Lee, Chad A Kinney, Joon-Hee Han, Sang-Hyuck Park* (2022), "Ultrasonic-assisted Extraction of Cannabidiolic acid from Cannabis Biomass", *Journal of Visualized Experiments*
*Corresponding author

Sang-Hyuck Park*, Samuel Koch, Katherine Richardson, Christopher Pauli, Joon-Hee Han, Tae-Hyung Kwon (2022), "Tobacco Hornworm as an Insect Model System for Cannabinoid Pre-clinical Studies" *Journal of Visualized Experiments* *Corresponding author

Sang-Hyuck Park*, Christopher S. Pauli, Eric L. Gostin, S. Kyle Staples, Dustin Seifried, Chad Kinney, and Brian D. Vanden Heuvel (2022) "Effects of Short-term Environmental Stresses on the Onset of Cannabinoid Production in Young Immature Flowers of Industrial Hemp (Cannabis sativa L.)", submitted to *Journal of Cannabis Research* * Corresponding author

Presentations:

Sang-Hyuck Park, "Cannabis: A Historical Perspective, Dispelling Misconceptions, and Exploring Medicinal Potential" - Atomy Co. Ltd. - Pharmaceutical Company, Gongju, South Korea (May 2023)

Sang-Hyuck Park, "Cannabis and Therapeutic Implications of Cannabinoids" - School of Pharmacy, Jeonbuk National University, South Korea (May 2023)

Sang-Hyuck Park, "US Medical Cannabis Research and Current Regulatory Status" - 2023 Symposium and Annual Meeting of the Korean Society of Medicinal Crop Sciences, Chuncheon, South Korea (May 2023)

Sang-Hyuck Park, "Current Regulatory Status and Advancements in Medicinal Cannabis Research in US" - Founding Conference of Asia-Pacific Cannabis Research Association, Busan, South Korea (March 2023)

Sang-Hyuck Park, "Current Regulatory Status and Medicinal Cannabis Research in US" - Korean Pharmaceutical Acupuncture Society, Seoul, Korea (Nov. 2022)

Sang-Hyuck Park, "Current Regulatory Status and Cannabis Research Trend in US" - 2nd Conference of Korean Cannabis Research Association, Seoul, South Korea (Nov. 2022)

Sang-Hyuck Park, "Current Regulatory Status and Cannabis Research Trend in US" - 2022 Fall International Convention of Pharmaceutical Society of Korea (Oct. 2022)

Sang-Hyuck Park, "Cannabis and Cannabinoids Research at Institute of Cannabis Research" - Gangwon Green Bio International Symposium, Chuncheon, South Korea (Sept. 2022)





Institute of
Cannabis Research
COLORADO STATE UNIVERSITY PUEBLO

183



ICR@CSUPUEBLO.EDU
719.549.2294



RECENT CANNABIS RESEARCH AWARDEES - PROJECTS STARTING OCT 1, 2023

Dr. William Baurerle - Colorado State University, Fort Collins

Increasing the Analytical Testing Capability of Cannabinoids and Concomitant Phytomolecules in Cannabis-derived Plant Matrices

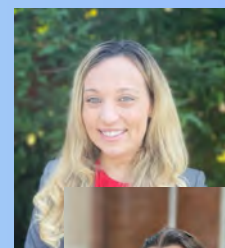
Water for irrigation and essential elements for plant nutrition, two critical inputs for Cannabis production, are finite resources. We aim to quantify Cannabis crop essential element and water use requirements in intensive horticulture production systems. Quantitative data of this nature provides mineral nutrient and transpiration management information that producers can deploy for resource input decision-making throughout the crop production cycle. Developing best practices to improve and optimize nutrient and irrigation efficiency will provide small- to large-scale Cannabis producers with scientific knowledge to increase their input efficiency, reduce resource waste, and increase the sustainability of a horticulture industry critical to Colorado's economic growth and prosperity. The outcome will increase nutrient and irrigation application efficiency, thus allowing Cannabis producers to conserve fertilizer and water resources. Overall, the project aims to develop best management practices to optimize nutrient and irrigation use efficiency throughout Cannabis production cycles.



Dr. Hollis Karoly, CO PI Dr. Patti Davies - Colorado State University, Fort Collins

Developing predictive models to distinguish alcohol use, cannabis use and co-use: an exploration of electroencephalography (EEG) metrics and traditional intoxication measures

Alcohol and cannabis are commonly used at the same time and are both known to impair cognitive and psychomotor functions relevant for driving. Following legalization of recreational cannabis in Colorado, DUIs involving cannabis (including cannabis in combination with alcohol) have increased. Currently, there are no validated roadside tests of cannabis-intoxication or co-intoxication, and considerable further research in this area is needed. This project aims to inform the eventual development of roadside tests for cannabis use and co-use, informed by electroencephalography (EEG). Specifically, we will assess neurocognitive function in 3 groups of human participants who are randomly assigned to consume alcohol, cannabis or both alcohol and cannabis during an experimental session in our federally-compliant mobile laboratory. The neurocognitive measures derived from EEG separate the phases of cognitive processing including attention, discrimination, decision making, error detection and adapting behavior to correct errors. The goal of this study is to use EEG to differentiate alcohol and cannabis co-intoxication from single-substance intoxication and identify which of the aforementioned neurocognitive components are most strongly associated with alcohol, cannabis or co-use. We will also compare relative predictive strength of EEG measures and traditional roadside intoxication measures (balance, blood-THC levels, blood-alcohol concentration) to shed light on potential combinations of measures that may be able to accurately identify single-substance intoxication and co-use intoxication.



Dr. Alison Bauer - University of Colorado Anschutz Medical Campus

Investigation of polycyclic aromatic hydrocarbons resulting from vaped or dabbed cannabis/cannabis-derived products with known adverse health effects

According to the 2021 Health Kids Survey (CDPHE), among kids who use cannabis in Colorado, ~16% vape and ~22% dab cannabis. Cannabis vaping and electronic dabbing could lead to emissions of toxicants that are currently not tested, that are known to be present in cannabis smoke, and that are known to cause harmful effects, such as carcinogenicity and adverse lung and cardiovascular effects. One class of these toxicants are the polycyclic aromatic hydrocarbons (PAH) that are regulated by the EPA, and of which, many are classified as carcinogens. PAHs are produced by the incomplete combustion of organic material, have been detected in emissions from e-cigarettes, in e-liquids, and in some CBD oils. In addition, terpenes, another common component of cannabis, can produce PAHs when dabbed at high temperatures. Thus, PAHs are already a public health concern, and we will investigate the potential generation of PAHs from vaping or electronic dabbing of cannabis and cannabis-derived products, especially those with high terpene concentrations. This innovative research will be a partnership between academic researchers in several schools at the University of Colorado Anschutz (ColoradoSPH and School of Pharmacy) and Kaycha Laboratories, a national cannabis testing facility, to test samples of vaped or dabbed cannabis products with different concentrations of terpenes for the EPA 16 priority PAHs. These studies will include measuring PAH production at increased vaping/dabbing temperatures (up to 1000oF) as well as exploratory experiments to discover unknown metabolites in high temperature vaping/dabbing condensates. This cutting-edge research can be used to inform policy makers on health-based regulations or guidelines on temperature capabilities of these devices.



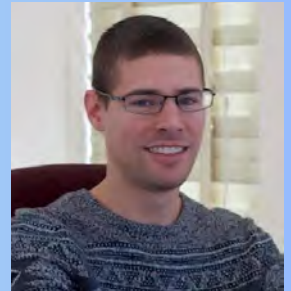


RECENT CANNABIS RESEARCH AWARDEES - PROJECTS STARTING OCT 1, 2023

Dr. David Root - University of Colorado, Boulder

Identifying the neuronal cell-types responsible for the rewarding and aversive properties of THC

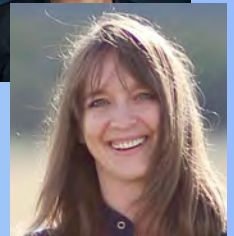
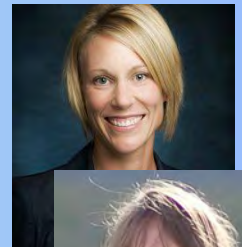
Marijuana is among the most widely used psychoactive substances across the world. The active ingredient in marijuana, Δ^9 -tetrahydrocannabinol (THC), has rewarding qualities and some individuals will become addicted to using it. THC has aversive properties as well at higher doses. On the one hand, this might limit addiction susceptibility, but on the other hand may reduce patient compliance when THC is used for medicinal purposes. The neurobiological mechanisms that underlie the rewarding or aversive properties of THC are not completely understood. Our primary goal is to identify which neurons in the brain's "reward center", the ventral tegmental area, are affected by THC, how these neurons are physiologically altered by THC, and the necessity of these neurons for the rewarding or aversive properties of THC.



Dr. Jessica Prenni, Co PI Dr. Tiffany Weir - Colorado State University, Fort Collins

Examination of the bi-directional interactions between phytocannabinoids and a human-associated gut microbiota

In recent decades, the gut microbiome has emerged as a critical regulator of inflammation and immunity in humans and has been associated with the development of numerous chronic diseases. Diet is one of the most critical regulators of gut microbiota composition and function. The major goal of this proposal is to explore microbe-phytocannabinoid interactions in the context of both balanced and imbalanced (as observed in obesity and chronic disease states) human microbiomes. Our secondary goal is to examine how gut microbial metabolism of phytocannabinoids in our model system impacts gut barrier function and inflammatory profiles. Successful completion of this project will generate fundamental knowledge around how phytocannabinoids modulate the gut microbiome and provide proof-of-concept and preliminary data for exploring interindividual differences in phytocannabinoid metabolism that can be leveraged in future human clinical studies utilizing phytocannabinoids for reducing both intestinal and systemic inflammation. Long-term outcomes of this research will provide much-needed information that can pave the way for intentional use of phytocannabinoids to treat intestinal disorders and other conditions that are linked through compromised intestinal barrier function and the microbiota-gut-brain axis.



Dr. Nicole Tartaglia - University of Colorado Anschutz Medical Campus

Endocannabinoids in Children with Autism Spectrum Disorder and Changes with Cannabidiol (CBD) treatment

Children with autism often struggle with behavioral challenges including irritability, anxiety, attention deficits, aggressive behaviors or self-injurious behaviors. Endocannabinoids are naturally occurring substances in the human body that bind to cannabinoid receptors and have actions across the body including significant effects on brain and behavior. Early studies in autism have suggested differences in the endocannabinoid system. Treatment with cannabidiol (CBD) extracted from the cannabis plant has shown some early promise for treatment of behavioral difficulties in autism, and the CASCADE study is an ongoing placebo-controlled trial of CBD in autistic children at Children's Hospital Colorado. In this project we will compare levels of 14 different endocannabinoids and the primary enzymes that regulate them in autistic children 4-17 years of age from the CASCADE study to nonautistic children in the same age range. Further, we will study changes in the endocannabinoid system in autistic children after treatment with CBD, and also explore the endocannabinoid profile of autistic children who had a positive response to CBD treatment to help make better recommendations related to which autistic children might respond best to CBD treatment.



Section 6

Annual Ag Report



Agriculture at Colorado State University

College of Agricultural Sciences
Agricultural Experiment Station

CSU System Strategic Priorities 2023-2028



Student Success & K-12 Relationships

Promote practices and partnerships that support educational access, attainment, and student success



Land Grant Priorities

- Access & Affordability
- Agriculture
- Rural Development
- Environmental Sustainability

Pursue excellence in upholding our Land Grant mission in the 21st century and our responsibility to serve Colorado



Innovation

Foster innovation in our operations, academic services, and programming, and in ways we serve students and the people of Colorado



Campus Collaboration

Foster a spirit of Systemwide collaboration, innovation, and partnership that adds value to institutions and strengthens the System and its institutions as educators, employers, and stewards of the public trust



Healthy Campuses

Foster healthy campus environments in which people are competitively compensated, supported as employees and humans, and engaged as members of a community that values respect, equity, and innovation

Local Solutions for Global Impact

OUR VISION

Revolutionizing how we nurture people and our planet.

OUR PURPOSE

Together, we promise future generations a vibrant agriculture, a healthy environment and thriving communities.

OUR VALUES

Actions manifest our essence. With CSU's Principles of Community as a guide, we serve with excellence, intention, rigor, optimism, empathy, creativity and wisdom.



Our Mission

In the context of a changing climate, we meet global challenges in food safety, food security, wellness and economic prosperity through the sustainable use of natural resources.

We excel in our 21st century land-grant mission by integrating intentional discovery, inclusive learning and collaborative engagement.



INTENTIONAL DISCOVERY

Agriculture is a fulcrum for discovery of principles and practice.



INCLUSIVE LEARNING

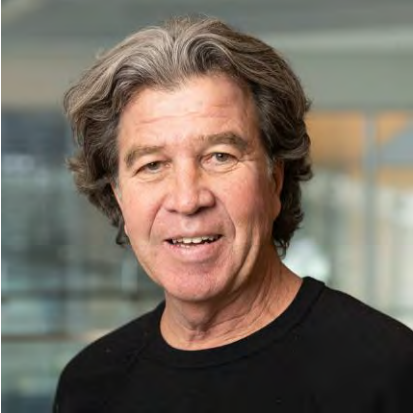
Lived experience is the best teacher.



COLLABORATIVE ENGAGEMENT

Engaged scholarship is a promise and a way of being.

Agriculture Leadership Team



NEW LEADERSHIP THIS FALL –
Patrick Doyle, Animal Sciences Department Head & **Amy Charkowski**, Research Associate Dean

World-Class Talent

JORDAN KRAFT LAMBERT

- Director of Agricultural Innovation and Partnerships, CSU SPUR Campus

DON THORN

- Manager of External Relations – Rural Colorado, College of Agricultural Sciences and Office of Engagement and Extension

DIEGO MANRIQUEZ ALVAREZ

- Dairy Systems Specialist, CSU AgNext

CARLEIGH FEDORKA

- Assistant Professor, Equine Reproduction

GIGI RICHARD

- Director, Western Colorado Research Center

PHUONG DAO

- Assistant Professor, Computational Agricultural Biology



CSU System Strategic Priorities 2023-2028



Student Success & K-12 Relationships

Promote practices and partnerships that support educational access, attainment, and student success



Land Grant Priorities

- Access & Affordability
- Agriculture
- Rural Development
- Environmental Sustainability

Pursue excellence in upholding our Land Grant mission in the 21st century and our responsibility to serve Colorado



Innovation

Foster innovation in our operations, academic services, and programming, and in ways we serve students and the people of Colorado



Campus Collaboration

Foster a spirit of Systemwide collaboration, innovation, and partnership that adds value to institutions and strengthens the System and its institutions as educators, employers, and stewards of the public trust



Healthy Campuses

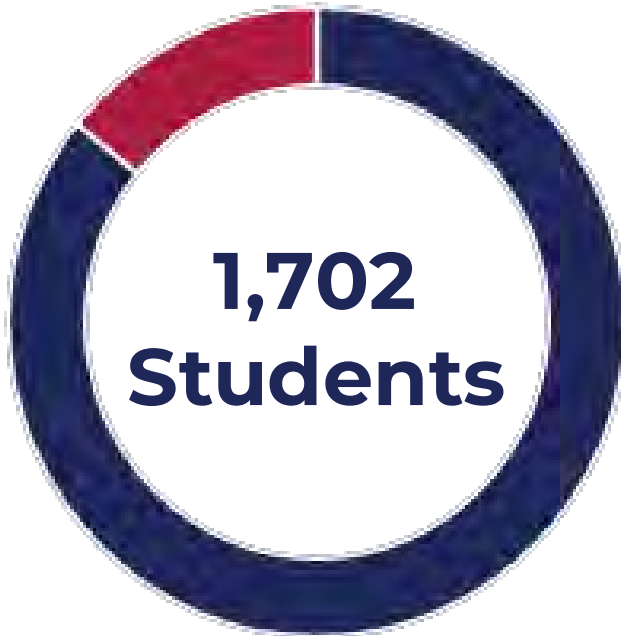
Foster healthy campus environments in which people are competitively compensated, supported as employees and humans, and engaged as members of a community that values respect, equity, and innovation

Students by the Numbers

ALL STUDENTS - FALL 2023

86% (1,461) Undergraduate
14% (241) Graduate

78% (1,702) Resident Instruction
22% (475) Online



FALL 2023 HIGHLIGHTS

Largest Class Ever on Campus

1,702 Total RI Students
436 New Students

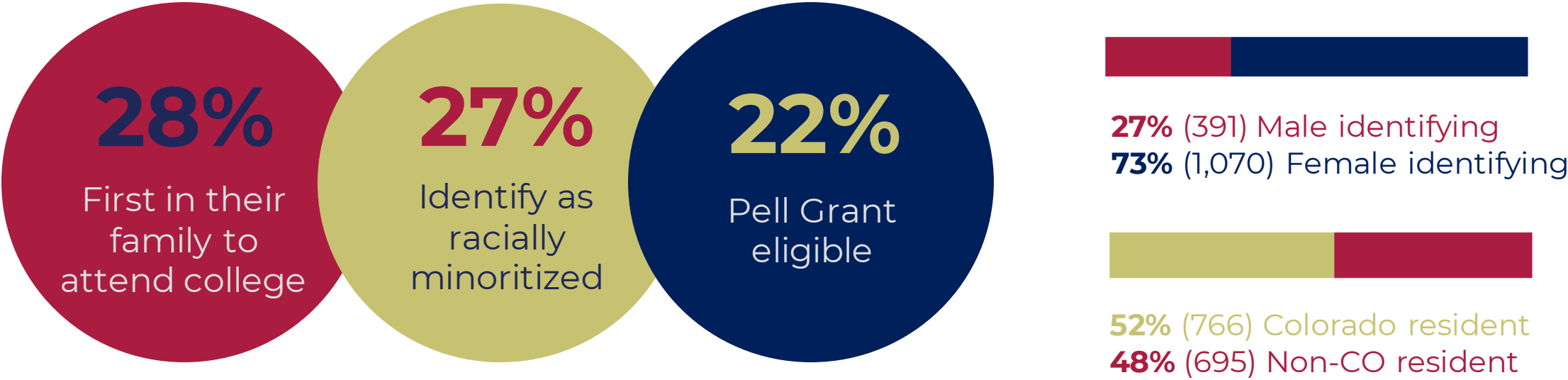
12% increase in online enrollment

475 Online Students

- **73%** non-traditional learners
- **46%** first-generation learners
- **49** veterans

Students by the Numbers

UNDERGRADUATE STUDENT DEMOGRAPHICS – FALL 2023



SCHOLARSHIPS 2023-2024 (to date)

\$1,397,876 in scholarships awarded • **566** scholarships • **\$2,469** average award

CSU System Strategic Priorities 2023-2028



Student Success & K-12 Relationships

Promote practices and partnerships that support educational access, attainment, and student success



Land Grant Priorities

- Access & Affordability
- Agriculture
- Rural Development
- Environmental Sustainability

Pursue excellence in upholding our Land Grant mission in the 21st century and our responsibility to serve Colorado



Innovation

Foster innovation in our operations, academic services, and programming, and in ways we serve students and the people of Colorado



Campus Collaboration

Foster a spirit of Systemwide collaboration, innovation, and partnership that adds value to institutions and strengthens the System and its institutions as educators, employers, and stewards of the public trust



Healthy Campuses

Foster healthy campus environments in which people are competitively compensated, supported as employees and humans, and engaged as members of a community that values respect, equity, and innovation

FY23 Research by the Numbers

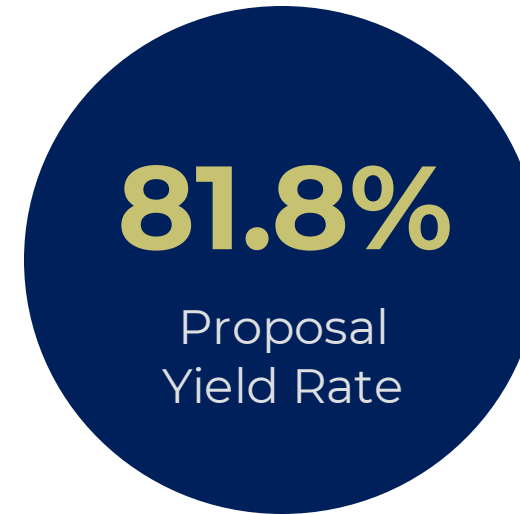
RESILIENT.



- **\$29.6M** Sponsored Programs (Grants/Contracts)
- **\$16.2M** Fee for Service
- **\$13.4M** Agricultural Experiment Station (State and Federal)

↑ 15% • Research Expenditures
• Self-funded Expenditure Activities

COMPETITIVE AND PRODUCTIVE.



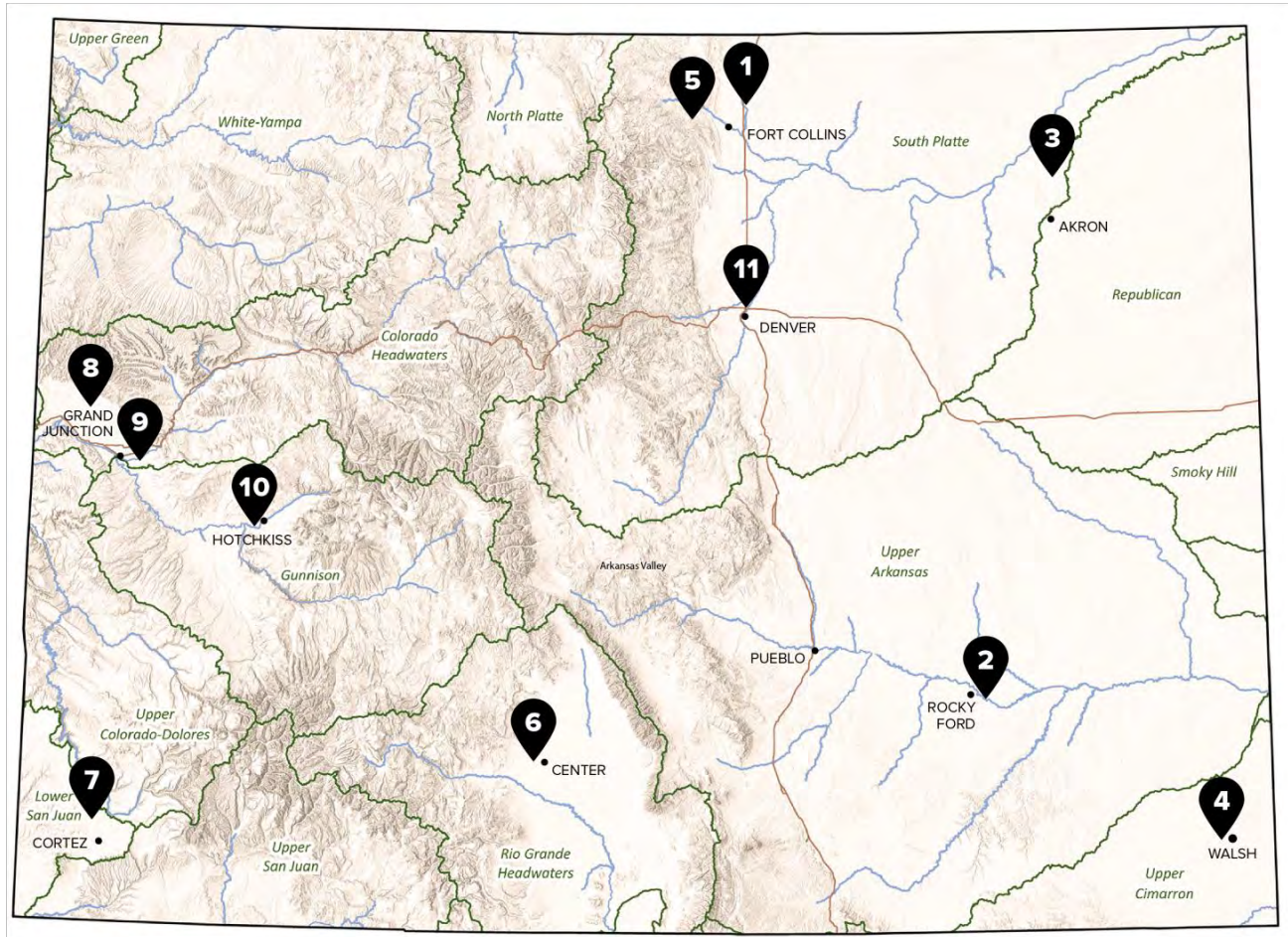
247
Awards
Totaling
\$39.6M

Number of Awards
Award Dollars



FY23 Research by the Numbers

COLORADO AGRICULTURAL EXPERIMENT STATION



\$15.7M Overall Budget

63% On Campus AES

37% Off Campus Research Center



25%

of AES budget resides in 6 non-CAS colleges

93

USDA-NIFA Hatch Projects

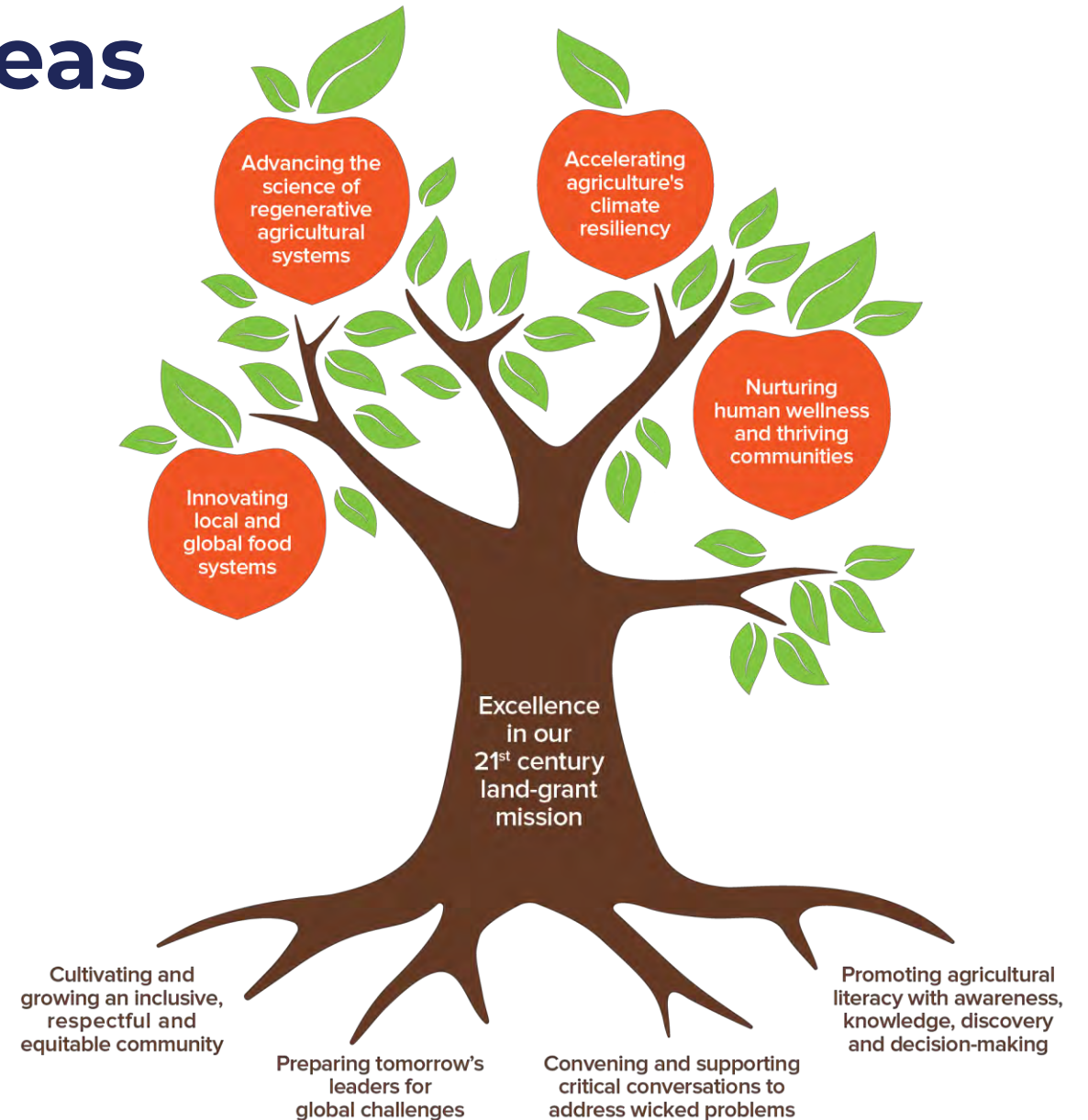
300% return

on investment on AES funds

Our Strategic Focus Areas

Guided by our shared vision, we are mobilizing around and investing in eight strategic focus areas for leadership and impact – regionally, nationally and globally.

We are well-positioned to advance the strategic imperatives of the university and system.



Accelerating Agriculture's Climate Resiliency

IDENTIFICATION

- **Gene Kelly**
Deputy Director, Colorado Agricultural Experiment Station

DISCOVERY

- **Kelly Wrighton**
Gordon and Joan Bishop Endowed Professor

INNOVATION

- **Jordan Kraft Lambert**
Director of Agricultural Innovation and Partnerships, CSU SPUR Campus

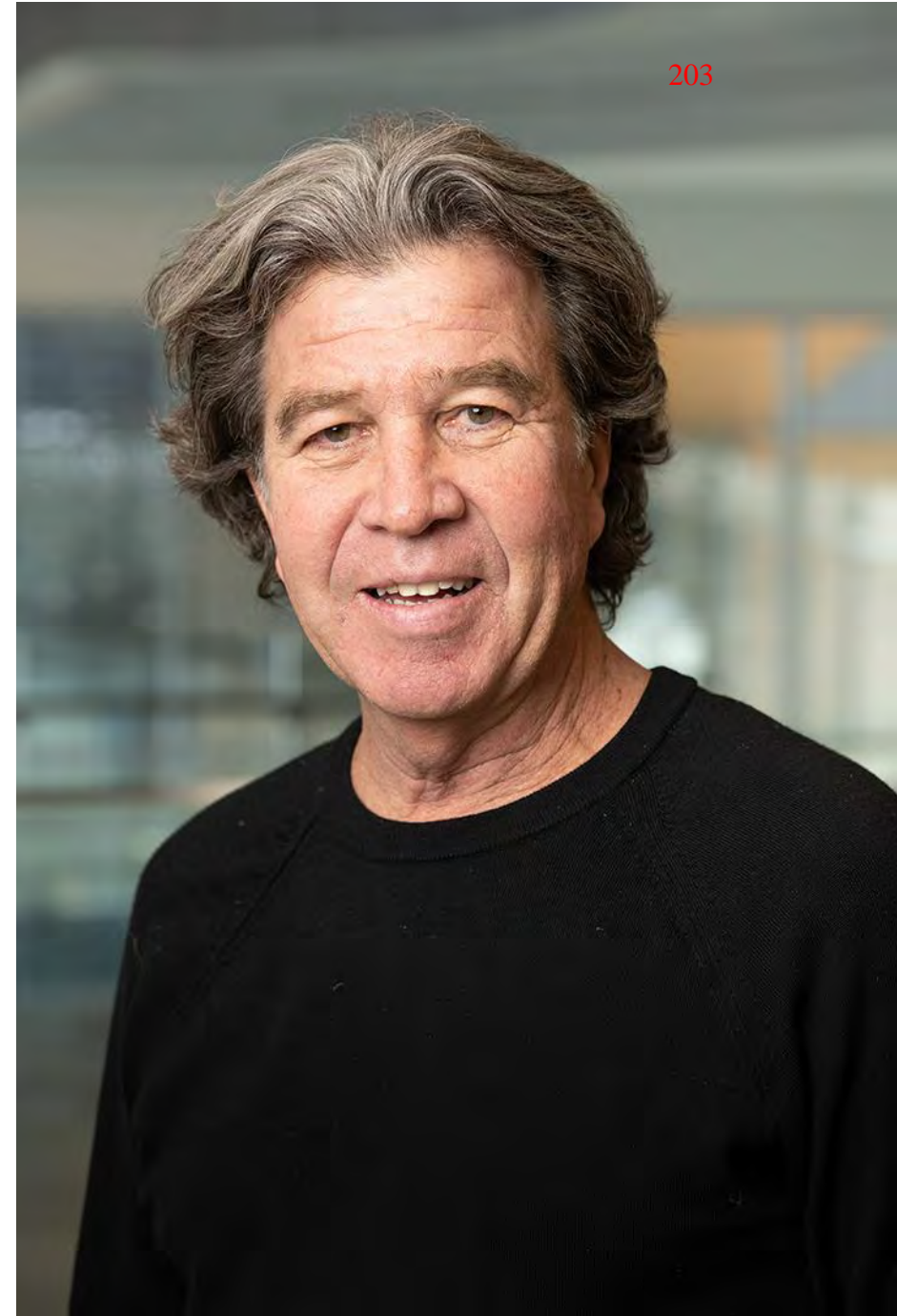


Accelerating Agriculture's Resiliency Identification



Gene Kelly

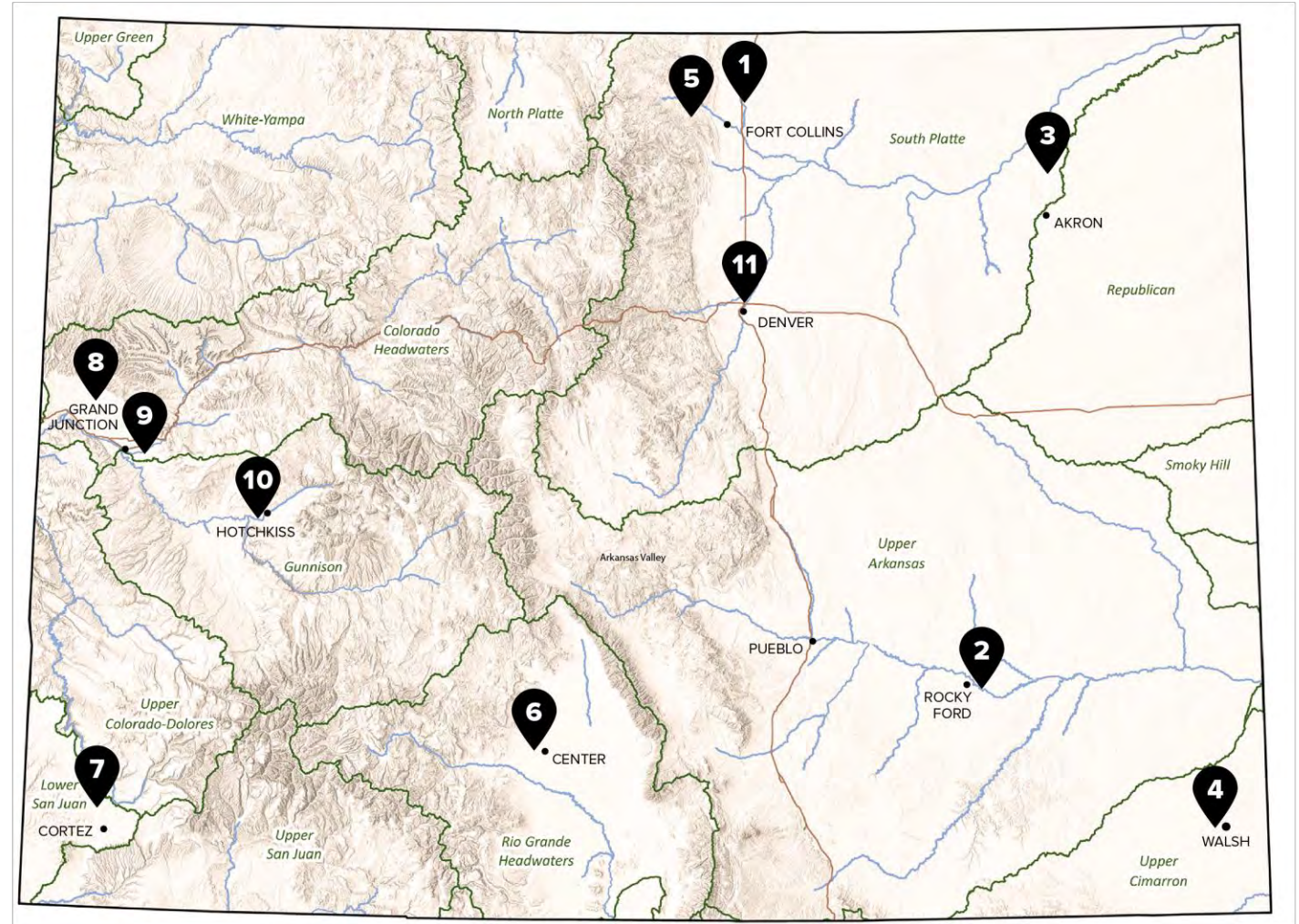
Deputy Director, Colorado Agricultural
Experiment Station



CSU's AES Research Centers

SCIENTIFIC THEMES

- Climate Smart Agriculture
- Biological Invasions
- Water Management
- Community Food Programs
- Climate Smart Energy
- Soil Health

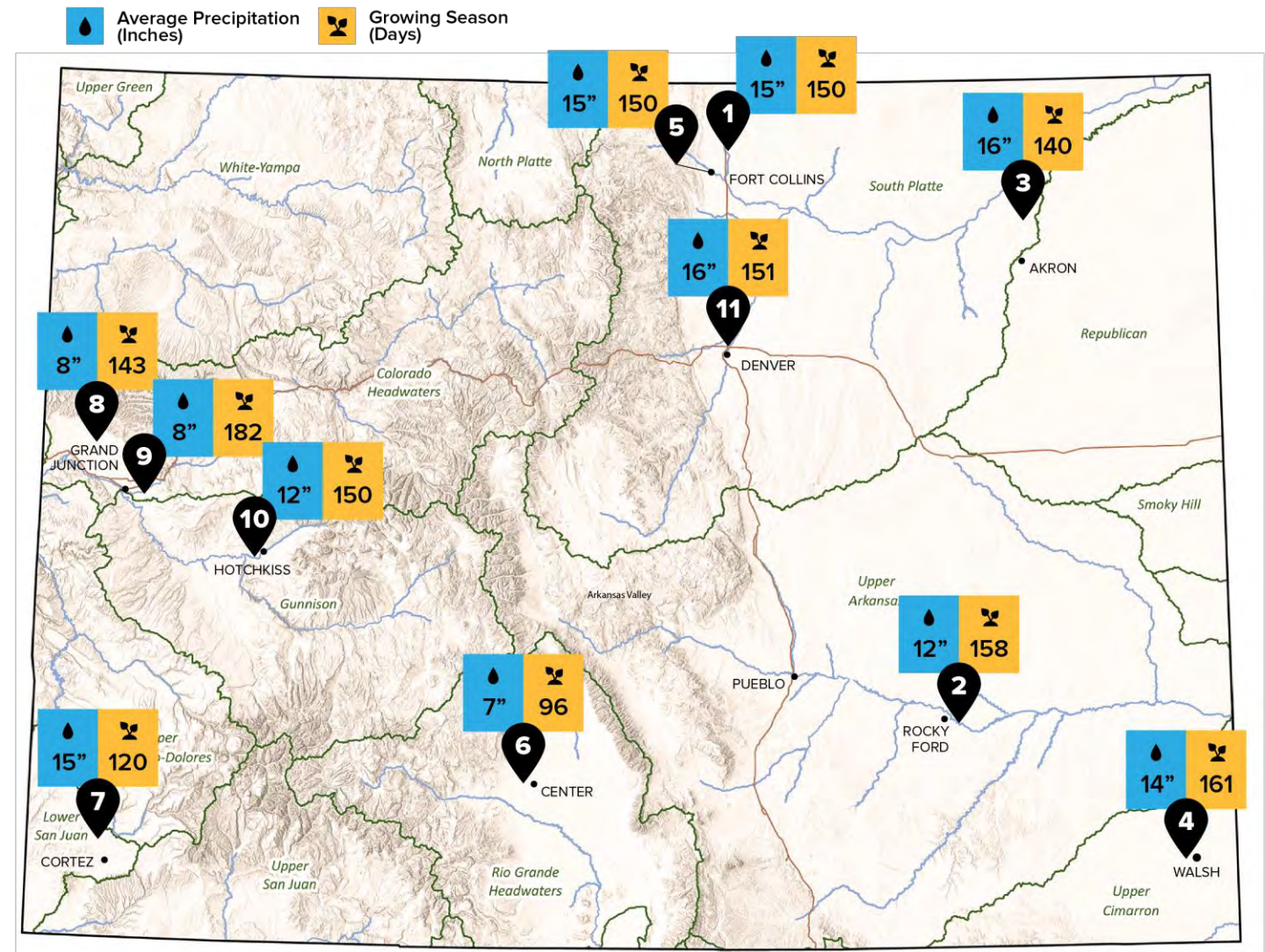


1. Agricultural Research, Development and Education Center
 2. Arkansas Valley Research Center
 3. Eastern Colorado Research Center
 4. Plainsman Research Center
 5. Plant Growth Facilities
 6. San Luis Valley Research Center

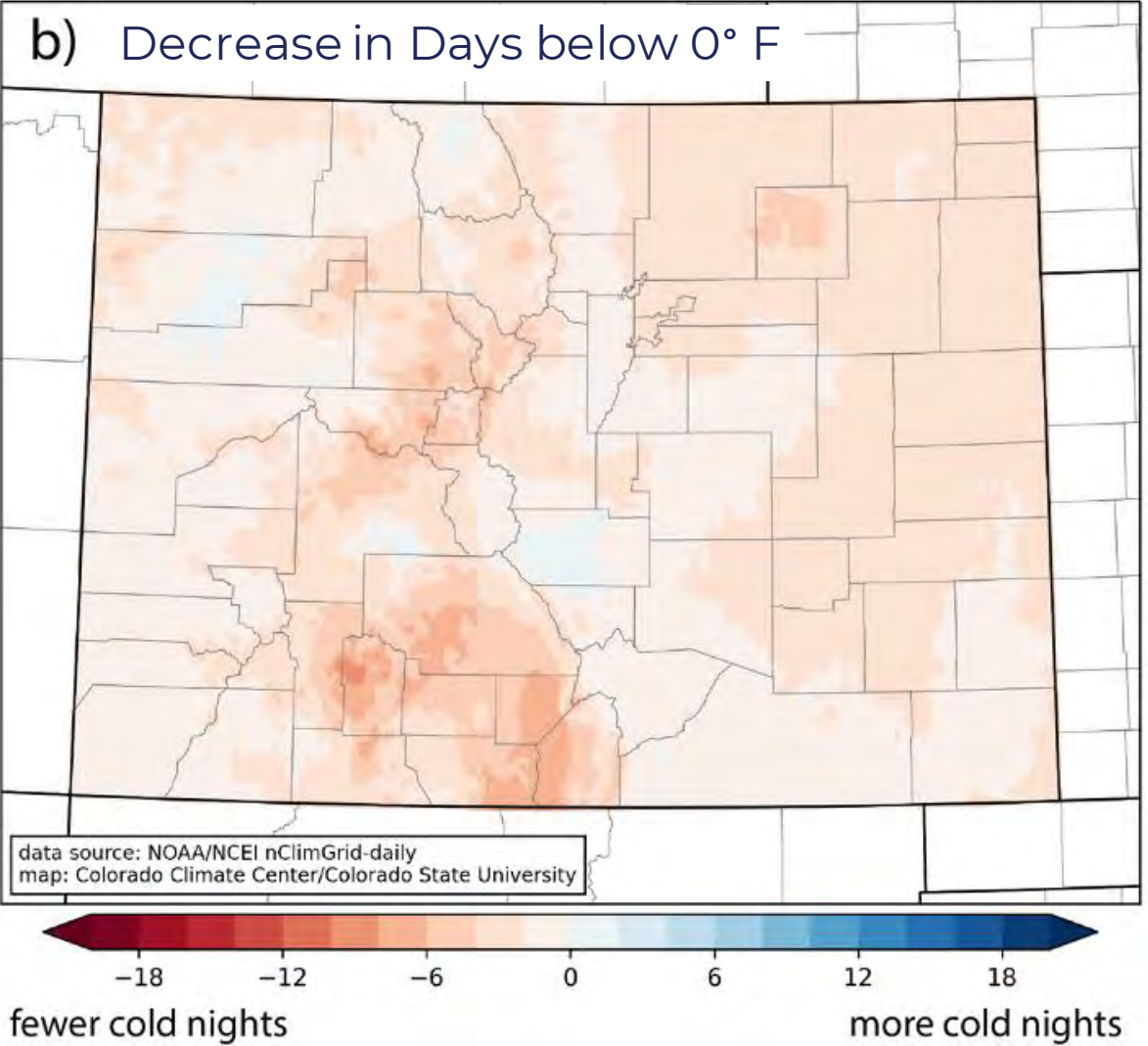
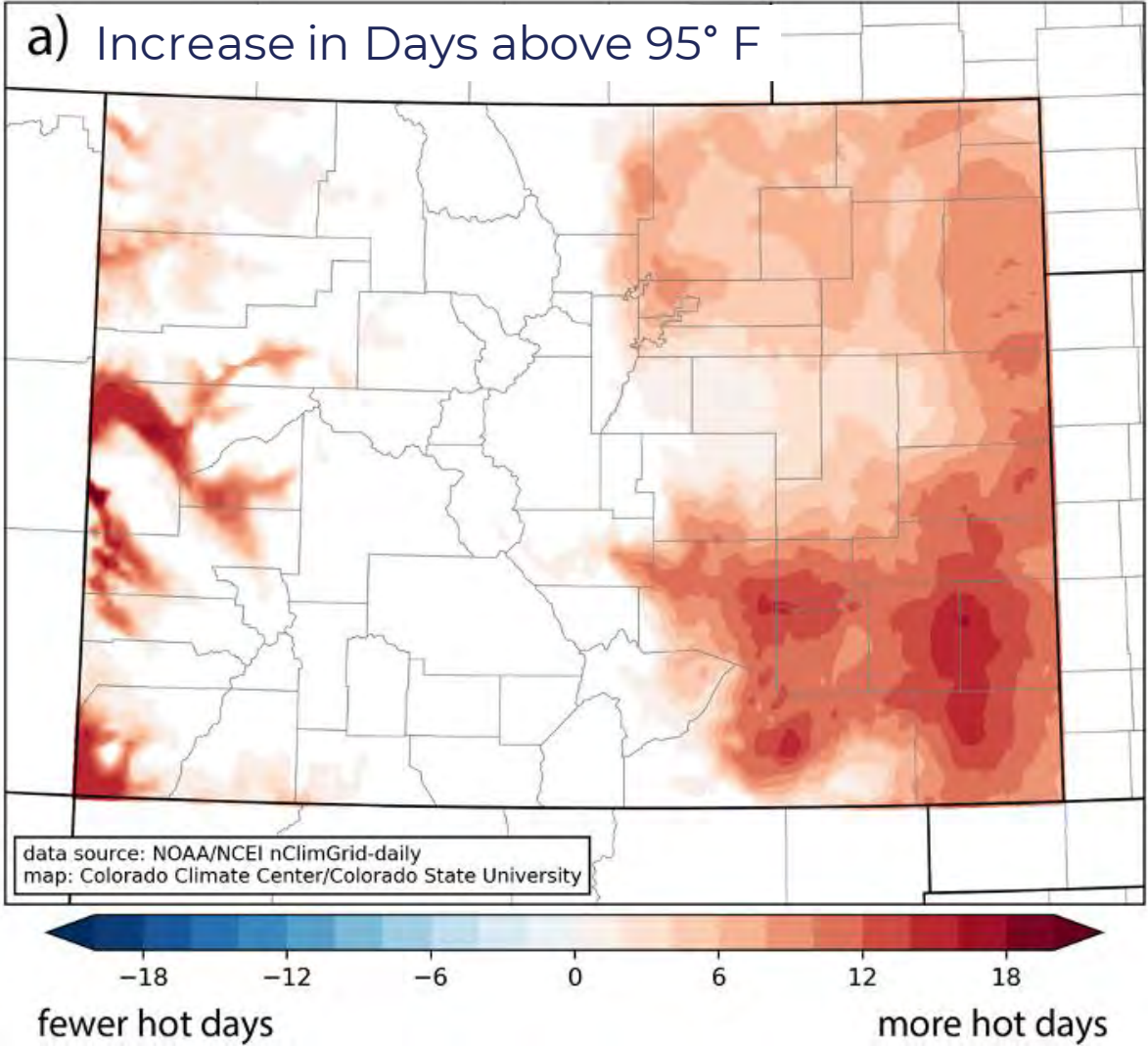
7. Southwestern Colorado Research Center
 Western Colorado Research Center Network:
 8. Grand Valley Research Center
 9. Orchard Mesa Research Center
 10. Organic Research Center at Rogers Mesa
 11. Metropolitan Ag Research Center

Colorado's Agricultural Observatory

- CSU Innovations Tested and Deployed
- Decision/Precision Ag
- AI Research & Applications
- Regenerative/Sustainable Ag
- Microbiome Science



A Changing Climate



Accelerating Agriculture's Resiliency

Discovery



Kelly Wrighton

Gordon and Joan Bishop Endowed
Professor



Local Influence: CSU Led Climate Relevant Research



**CSU Graduate students
directing regionally important
microbiome research**

COLORADO'S NEEDS

Wildfire recovery

Natural gas management

Grazing land carbon storage

Discovery of 'biome soil health indicators

Enhanced urban crop yields

Controlled ruminant methane

We Are Living In A Microbial World

Yet These Systems Remain Virtually Untapped Levers For Climate Resiliency



Your bodies
nutritional and
immunological
regulation

Greenhouse gas
production and
storage-
CO₂, CH₄, N₂O

50% of the air
that you
breathe

Yield, protection, and
sustainability in
cropping systems

Colorado State Microbiome (CosMIC) Network

New Center Supported By 7 Cluster Hires And Recent VPR Tune Award



COLLABORATIVE STRUCTURE

Network structure supports microbiome science in all aspects of CSU research - with representatives in every college and major CSU research investment



TRANSDISCIPLINARY RESEARCH

Microbiome science requires integration of concepts from microbiology, ecosystem science, computer science, genome science, and communication



INCLUSIVE LEARNING

Innovative training grants in computational biology and authentic research experiences train the next generation of solution-oriented scientists

COSMic Network
 COlorado State Microbiome

Global Leaders : Climate Change Microbiome Science ²¹³

2023 Prestigious Climate Related Microbiome Grant Awards

- CSU lead PI
- CSU co-lead



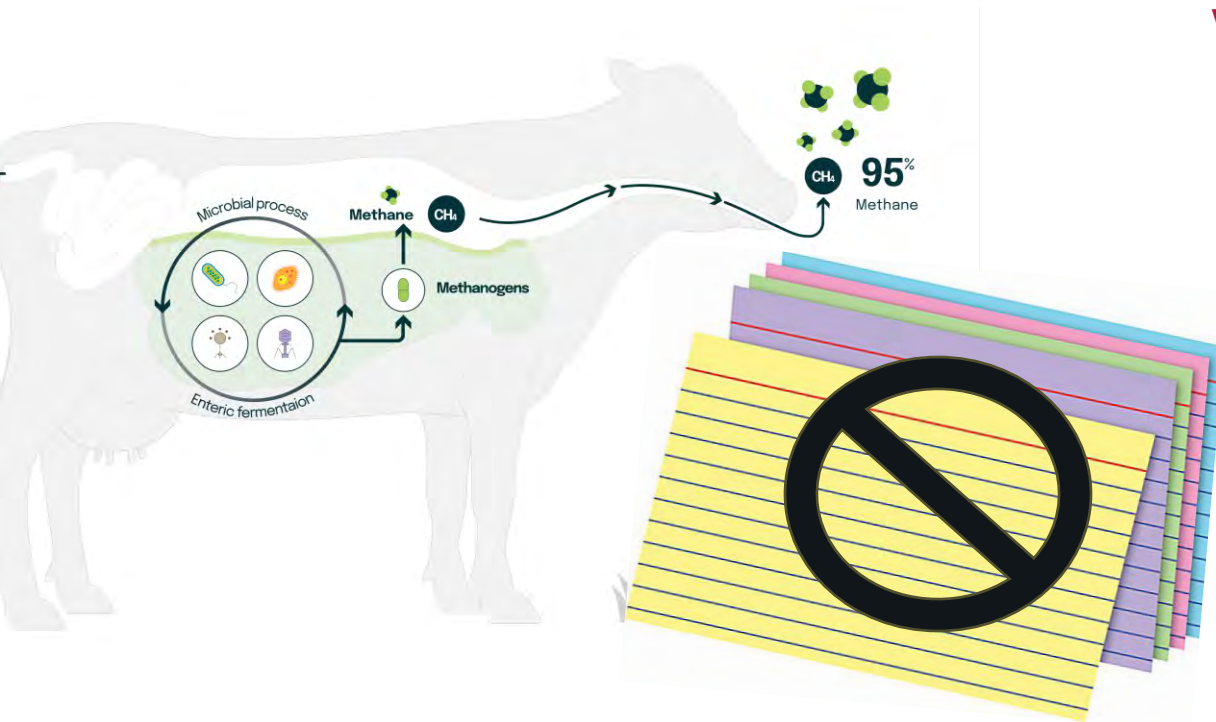
4 of 6

**\$16 Million
DOE Climate
Change
Microbiomes**



Equipping Tomorrow's Leaders for Climate Action ²¹⁴

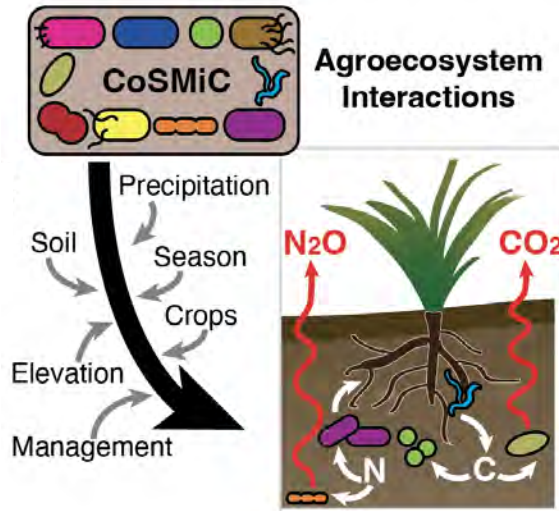
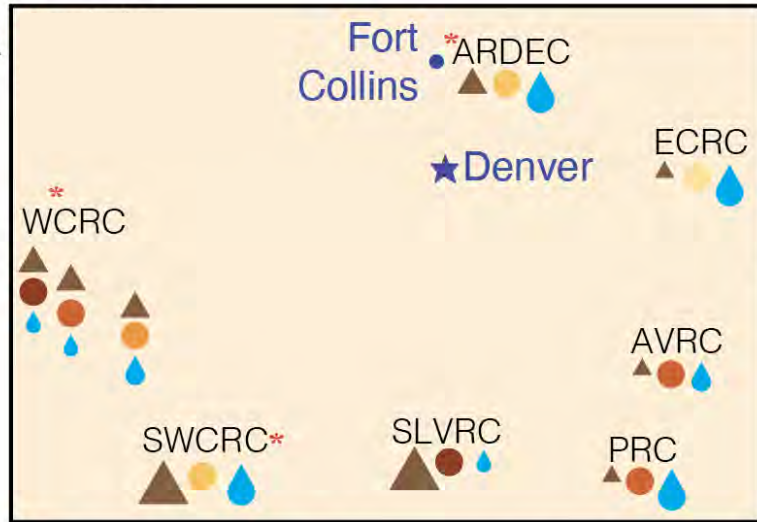
We Need To Train Scientists Differently Today



- Real world problems**
- Cross-disciplinary learning**
- Team-oriented skills**
- Contemporary assessment**



Authentic, Scaled Undergraduate Research ²¹⁵



Real world problems

Leveraging our agricultural experiment stations

Cross-disciplinary learning

4 pairs of microbiologist and soil scientist

Team-oriented skills

Training in team science and communication

Authentic Undergraduate Research Experience

Draft Metagenome-Assembled Genome Sequences of Three Novel Ammonia-Oxidizing *Nitrososphaera* Strains Recovered from Agricultural Soils in Western Colorado

Authors: Arsen Yerlan, Rebecca A. Daly, Reza Keshavarz Afshar, Michael Shaffer, Kelly C. Wrighton, Bridget B. McGivern

undergraduate first author

experiment station scientist

graduate student corresponding author

75% undergraduate led peer-reviewed publications

38% graduate school in regenerative agriculture microbiomes

25% careers in startup companies in microbiome agricultural tech

100% data to build soil microbial census in Colorado soils- Microbiomes of Agricultural Production Soils (MAPS)

Real world problems

Cross-disciplinary learning

Team-oriented skills

Contemporary assessment and products

Symposium for stakeholders, publications, development regional database

3 Takeaways From The Last 7 Minutes

- Sustainable climate planning will incorporate **microbiome prospected solutions**
- CSU is **top 3 of global microbiome centers** providing transferable **local research impact**
- **Infused research and teaching** platform leads to innovation



Accelerating Agriculture's Resiliency Innovation



Jordan Kraft Lambert

Director of Agricultural
Innovation and Partnerships,
CSU SPUR Campus



Agriculture Is Infrastructure









Innovation is...

A
deeply
felt
problem



Innovation is...

A
deeply
felt
problem



An
invention

Innovation is...

A
deeply
felt
problem



A
kick-ass
business
model

Ag Innovation Investment Is Insufficient

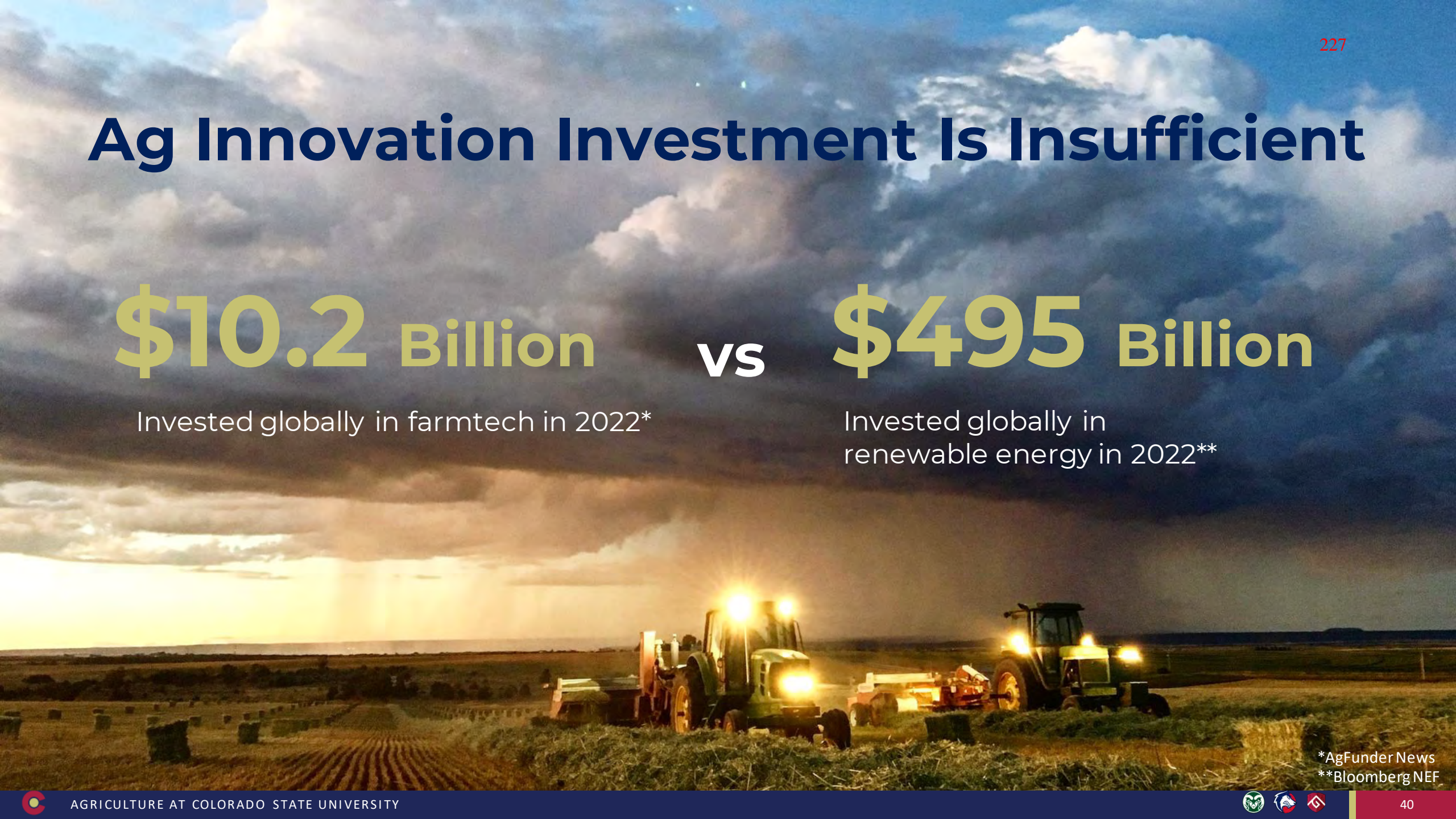
\$10.2 Billion

vs

\$495 Billion

Invested globally in farmtech in 2022*

Invested globally in renewable energy in 2022**



*AgFunder News
**Bloomberg NEF

Disconnection from agriculture is a primary driver

\$10.2 billion

Invested globally in farmtech in 2022*

<2% of the US population are farmers*

Most Americans are **3+** generations
removed from agriculture

*American Farm Bureau



The vision of the Ag Innovation Center is to

Connect those with entrepreneurial drive and technical talent to real ag problems faced by Colorado producers







moonshot -

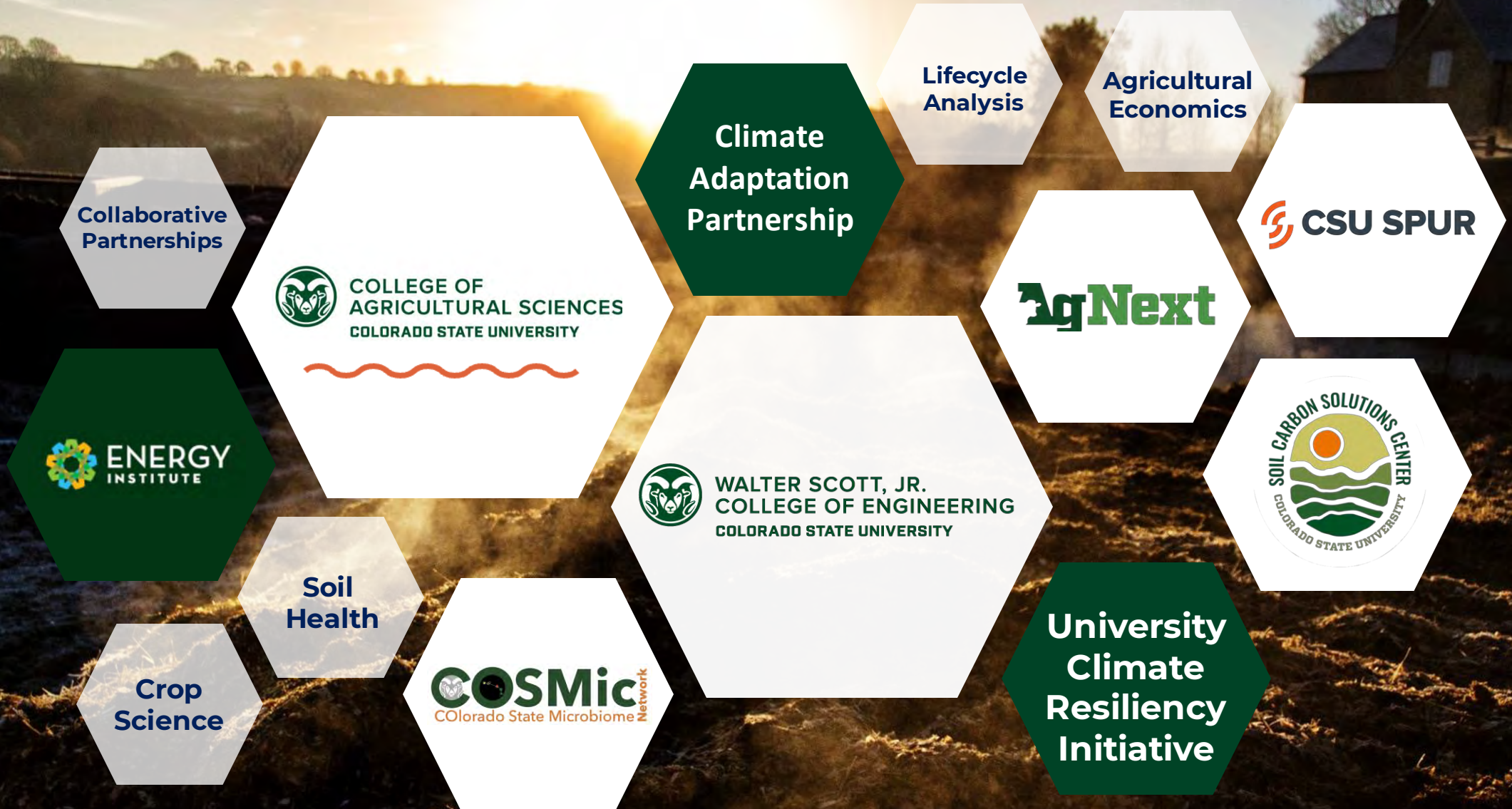
noun - a grand challenge that rallies interdisciplinary experts, capital, and attention around a single audacious goal

poopshot -

noun - a grand challenge to accelerate innovation to verifiably reduce greenhouse gas emissions for beef and dairy producers, while increasing their profitability and improving soil health



The Poopshot leverages CSU's expertise



Manure is...

A
deeply
felt
problem



- Food companies and banks are under pressure to decrease the greenhouse gas emissions in their supply chains

Manure is...

A
deeply
felt
problem



- Food companies and banks are under pressure to decrease the greenhouse gas emissions in their supply chains
- 30% of emissions on beef and dairy operations are from manure

Manure is...

A
deeply
felt
problem



- Food companies and banks are under pressure to decrease the greenhouse gas emissions in their supply chains
- 30% of emissions on beef and dairy operations are from manure
- Emissions on crop farms are from fossil-fuel derived fertilizers that degrade soil health

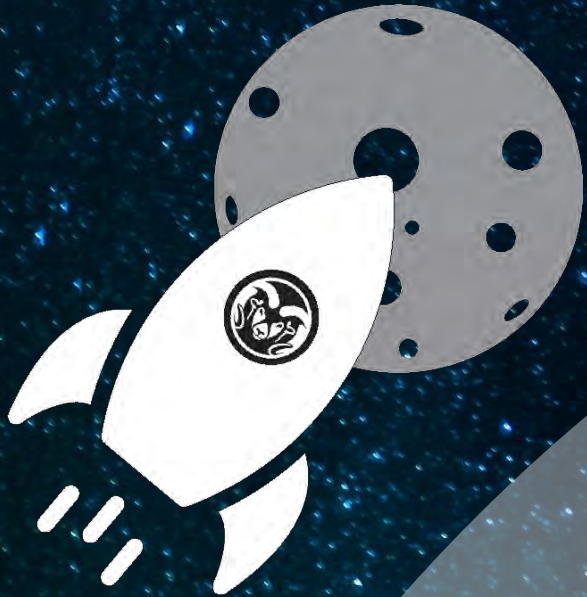
Manure is...

A
deeply
felt
problem



An opportunity for
meaningful impact

The Road to the Poopshot -



Define the “finish line”

In conjunction with USDA ARS, farmers and ranchers, food companies, and other experts

Construct Winning Evaluations

That leverage CSU’s expertise

Raise The Purse

From motivated food companies, banks

Invite Participants

(and create!) participants to compete

Run the Challenge

until a winner is declared

Accelerating Agriculture's Climate Resiliency

IDENTIFICATION

- **Gene Kelly**
Deputy Director, Colorado Agricultural Experiment Station

DISCOVERY

- **Kelly Wrighton**
Gordon and Joan Bishop Endowed Professor

INNOVATION

- **Jordan Kraft Lambert**
Director of Agricultural Innovation and Partnerships, CSU SPUR Campus



CSU System Strategic Priorities 2023-2028



Student Success & K-12 Relationships

Promote practices and partnerships that support educational access, attainment, and student success



Land Grant Priorities

- Access & Affordability
- Agriculture
- Rural Development
- Environmental Sustainability

Pursue excellence in upholding our Land Grant mission in the 21st century and our responsibility to serve Colorado



Innovation

Foster innovation in our operations, academic services, and programming, and in ways we serve students and the people of Colorado



Campus Collaboration

Foster a spirit of Systemwide collaboration, innovation, and partnership that adds value to institutions and strengthens the System and its institutions as educators, employers, and stewards of the public trust



Healthy Campuses

Foster healthy campus environments in which people are competitively compensated, supported as employees and humans, and engaged as members of a community that values respect, equity, and innovation



**COLLEGE OF
AGRICULTURAL SCIENCES**

**AGRICULTURAL
EXPERIMENT STATION
COLORADO STATE UNIVERSITY**

THANK YOU.



Section 7

*Academic and Student Affairs
Committee*

Academic and Student Affairs Committee

Agenda: pages ##- ##

Board of Governors Regular Meeting – October, 2023

Roze Hentschell, Chief Academic Officer



Contents

Action Items

- Program name change (CSU)
- Academic Calendars (CSU)
- Program Review Schedule (CSU)
- Conferral of Degrees

CAO: Campus Collaborations

Report Items

- Preliminary Enrollment and Retention
- Student Success
- Student Affairs

Consent Agenda





Academic Calendar (pages ###-###)

Motion: to approve the updated Academic Calendar for Fall Semester 2022 through Summer Semester 2024

Explanation: The Academic Calendar for Fall 2022 through Summer 2024 required updates due to changes to Late Withdrawal dates, removal of student orientation dates, and revision of other dates.

Motion: to approve the updated Academic Calendar for Fall Semester 2024 through Summer Semester 2026

Explanation: The Academic Calendar for Fall 2024 through Summer 2026 required updates due to changes to Late Withdrawal dates, removal of student orientation dates, and revision of other dates.

Both motions approved by the Faculty Council at its regular meeting on September 5, 2023.

Policy 313: CSUS Board Approval of Academic Calendar and Suspension of Academic Terms Policy



Program Name Change (page ###)

Graduate School

Motion: Approval to rename the School of Advanced Materials Discovery (SAMD), a special academic unit under the Graduate School, to the School of Materials Science and Engineering (SMSE)

Explanation: SMSE aligns more closely with the name of the degree programs that are offered and the program codes, is easier to understand, and will facilitate attracting students, faculty, and staff to the program.

Proposal has been approved through all necessary faculty governance oversight channels.

Policy 302: CSUS Board Academic Program Policy

Program Review Schedule (page ##)



Motion: to approve the 23-2024 program review schedule

College of Health and Human Sciences	College Wide Interdepartmental Programs (1501) Construction Management (1584) Design and Merchandising (1574)	Health and Exercise Science (1582) Human Development and Family Studies (1570) Food Science and Human Nutrition (1571) Occupational Therapy (1573)
College of Business	College Wide Interdepartmental Programs (1201) Accounting (1277) Computer Information Systems (1277)	Finance and Real Estate (1272) Management (1275) Marketing (1278)
College of Natural Sciences	College Wide Interdepartmental Programs (1801) Computer Science (1873) Mathematics (1874) Statistics (1877)	
Warner College of Natural Resources	College Wide Interdepartmental Programs (1401) Forest and Rangeland Stewardship (1472)	

Policy 303: CSUS Board Academic Program Review Policy



Approval of Degree and Certificate Candidates (pages ##, ##, ##)

Motion: to approve the granting of specified degrees to those candidates fulfilling the requirement for their respective degrees during the 2023-2024 Academic Year.



The Faculty Council of **Colorado State University-Fort Collins** recommends the conferral of degrees on those candidates who satisfy the requirements during the 2023-2024 Academic Year. The Registrar's Office will process the applications for graduation; only those individuals who complete all requirements will receive degrees.



The Faculty Senate of **Colorado State University Pueblo** recommends the conferral of degrees on those candidates who satisfy all their requirements during the 2023-2024 Academic Year. The Registrar's Office at CSU Pueblo will process the applications for graduation; only those individuals who have completed all requirements in a satisfactory manner will receive their degree.



Colorado State University Global recommends the conferral of degrees and certificates on those candidates who satisfy their program requirements during the 2023-2024 Academic Year. The Registrar's Office will process the applications for graduation; only those individuals who satisfactorily complete all requirements will receive degrees.

Policy 314: CSUS Board Approval of Degree Candidates

Campus Collaborations

Foster a spirit of Systemwide collaboration, innovation, and partnership that adds value to institutions and strengthens the System and its institutions as educators, employers, and stewards of the public trust



Just a few of the ways our campuses are collaborating for collective impact in Academic Affairs



The Equity Imperative

Free Application for Federal Student Aid (FAFSA)





Preliminary Enrollment Report



CSU-Fort Collins Preliminary Enrollment Report

(page ##)



- Residential Instruction (RI) Headcount: **27,833** (-0.4%)
- 23,653 undergraduate (-0.6%); 3,580 graduate (+0.6%)
- Student Credit Hours (SCH) slight increase (+157)

Areas of growth

- Rural students increased by 2.6%
- Non-RI enrollment increased by 5.7%: total 5,815 (of which 4,270 are CSU Online students)
- Western Undergraduate Exchange (WUE) non-resident enrollment increased by 7.4%
- The College of Business saw the greatest increase in the student numbers at 8%

CSU-Fort Collins Preliminary Enrollment Report (Cont.)



Of Note

- Retention to second fall is up by 1.4 points to 84.9%. This is one of the largest single year increases on record for CSU.
- Greatest increases were found for Racially Minoritized (+2.5 points up to 82.1%), Non-Resident (+1.7 points to 83.4%), and First Generation (+1.1 points to 79.3%) students.
- The size of the new entering class (Residential Instruction only) is 5,299, including the summer starts. This represents a decrease of 269 students (-4.8%) compared to FA22. However, it is the third largest class in history.

Entering class (First-Time, Full-time)

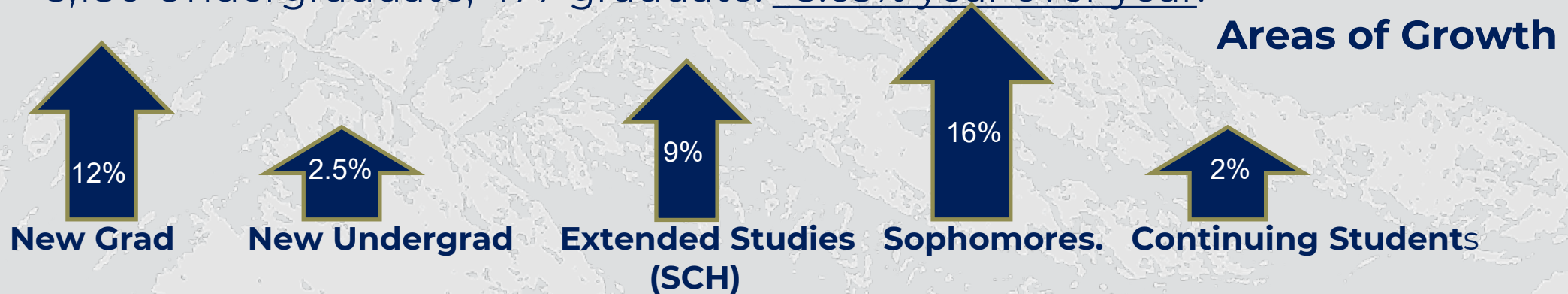
- 60% are Colorado residents
- 29% identify as Racially Minoritized (of those, 58% are Hispanic/Latino)
- 25% are First Generation
- 9% are from Rural Colorado
- Median high school GPA is 3.72



CSU-Pueblo Preliminary Enrollment Report

(page ##)

- Headcount: **3,657** (Residential Instruction and Extended Studies):
- 3,180 Undergraduate; 477 graduate. +3.63% year over year.



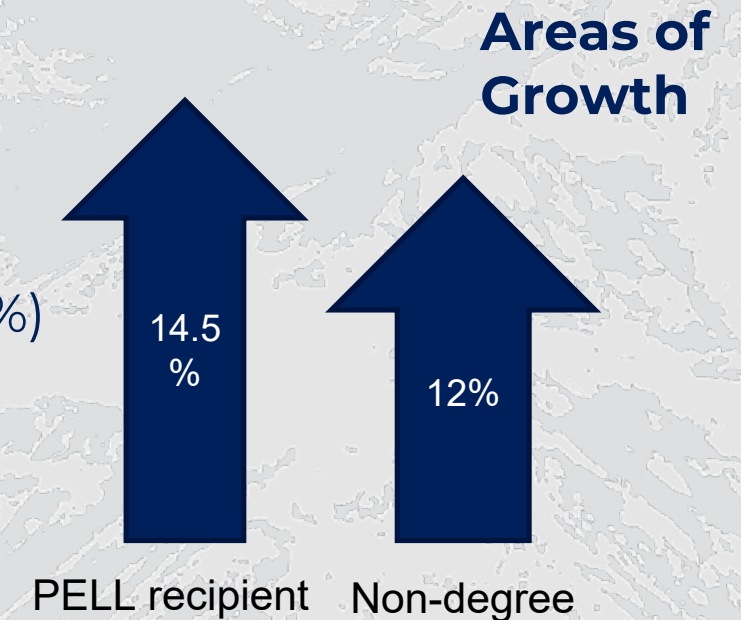
- Majority of CSU Pueblo students identify as underrepresented: 54% racial/ethnic minoritized (+3%); 35% Latinx; 43% First generation (undergrad only); 39% Pell eligible
- Not captured in the number of graduate students are the 66 students currently enrolled in a 3+2 Program
- Record enrollment in the M.Ed. Program; 31 doctoral students in new Ed.D.

CSU-Global Preliminary Enrollment Report

(page ##)



- Report is for CSU Global's Fall A (July) and Fall B (August) terms. Terms C and D enroll in mid-September and mid-October
- Headcount: 4,775 undergraduate; 2,286 graduate; 184 non-degree seeking
- For Fall A and B terms, slight decrease from prior year in headcount (-0.3%) and increase in student credit hour production (+2.7%). Preliminary data for Fall C indicates significant growth in Student Credit Hours
- Increase in Colorado resident enrollment (+3.5%)
- Majority of students attend part-time (99%)
- Nearly 28% of Colorado residents are from rural areas (+5%)
- Increase in students under 24 years (+5.7%)
- 35% racially minoritized (+6%)
- +18% in headcount of students of color



Student Success



CSU SYSTEM
COLORADO STATE UNIVERSITY



Student Success Initiative Overview

- 2021: Board of Governors invests to support CSU-FC and CSU-P campuses in closing equity gaps and increase retention and graduation rates
- Board committed \$11.2 million over three years
- Stretch goal is to eliminate equity gaps for all demographics by 2027 and raise student success metrics to the top quartile of peers in the same time period
- Six broad categories: data; infusing a culture of success at the college/departments levels; curriculum changes and enhancements; co-curricular investments; and targeted financial aid.

CSU-Fort Collins Provost Report

Student Success

5 October 2023

Janice Nerger, Interim Provost and VP Academic Affairs
Ryan Barone (he/him), Assistant Vice President for Student Success



Colorado State University

Student Success @ CSU

VISION: “Creating equitable educational environments resulting in increased graduation rates and eliminating opportunity gaps”

GOALS:

1. **Increase graduation rates** for all students; eliminate opportunity gaps for first generation, racially minoritized, rural, and limited income (Pell) students.
2. **Increase retention rates** with focus on first-year, first-time students. Goal is to eliminate gaps and increase retention from 1st fall to 2nd fall from 85% to 90%.

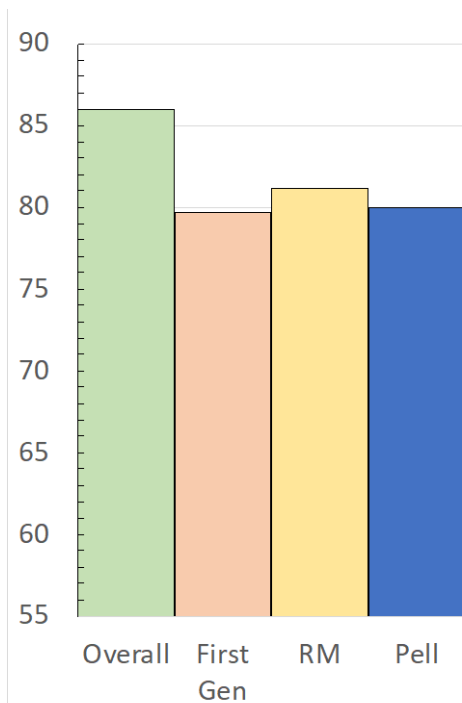
<https://studentsuccess.colostate.edu/>



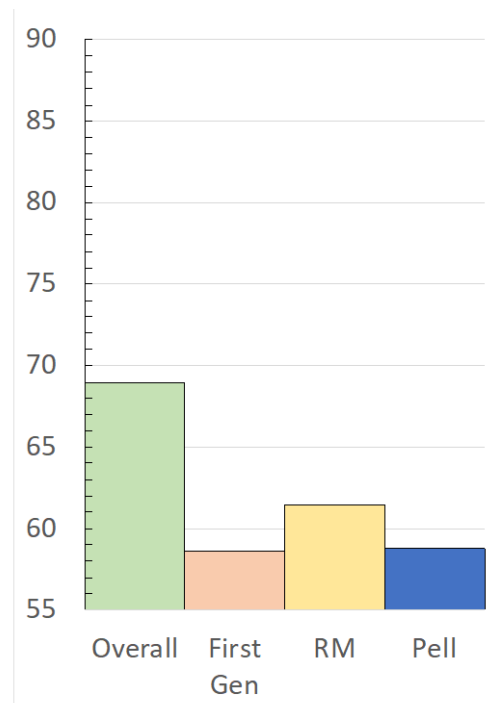
Where we are compared to our peers

Overall and Gaps

1st Fall to 2nd Fall



6-yr Graduation

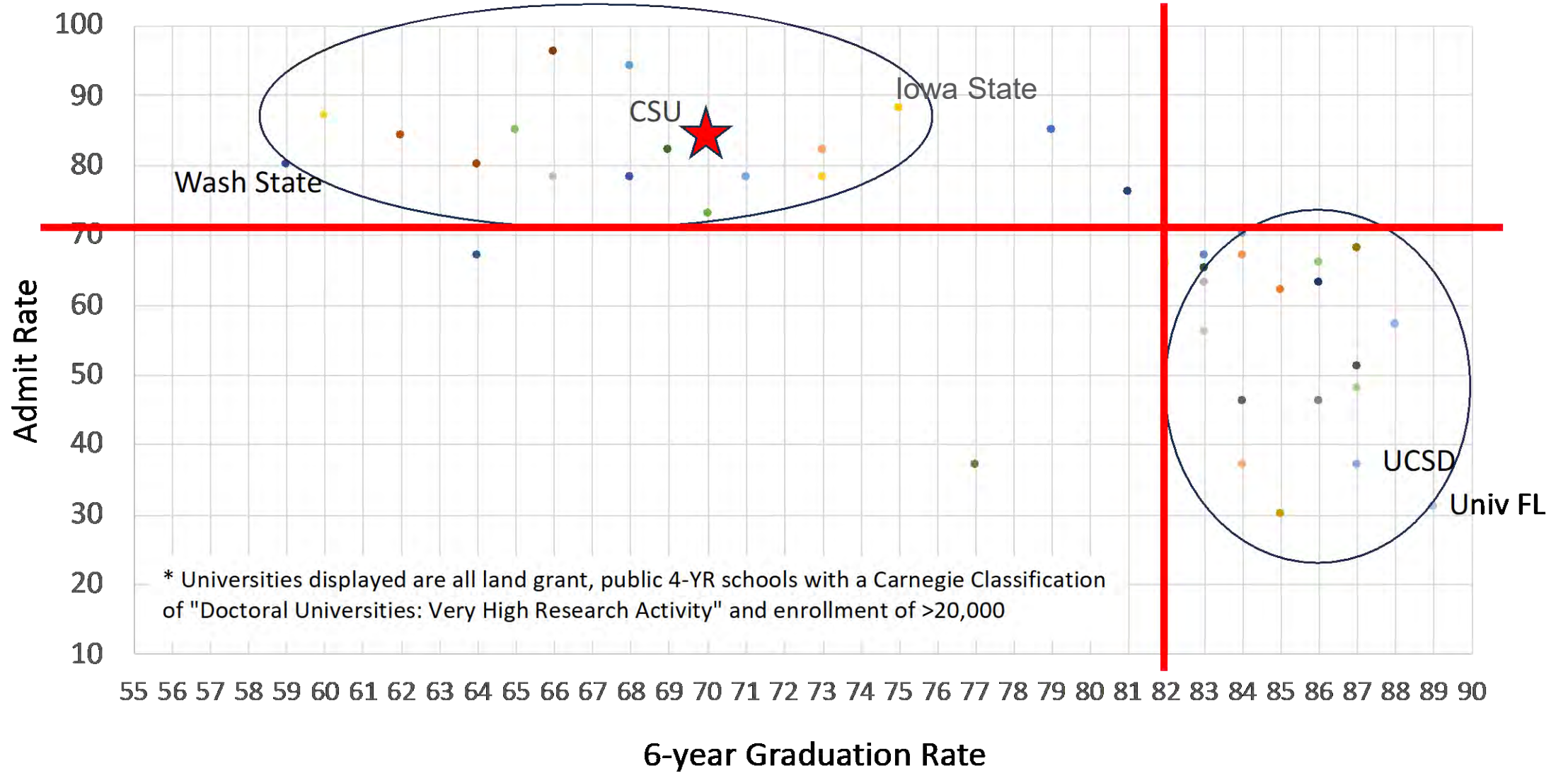


	Median	Mean	CSU
1 st fall to 2 nd fall	91	90	86
6-yr Graduation	83	78	69

Comparison Group: 42 Land Grant Public 4-YR,
Research 1, Enrollment $\geq 20,000$

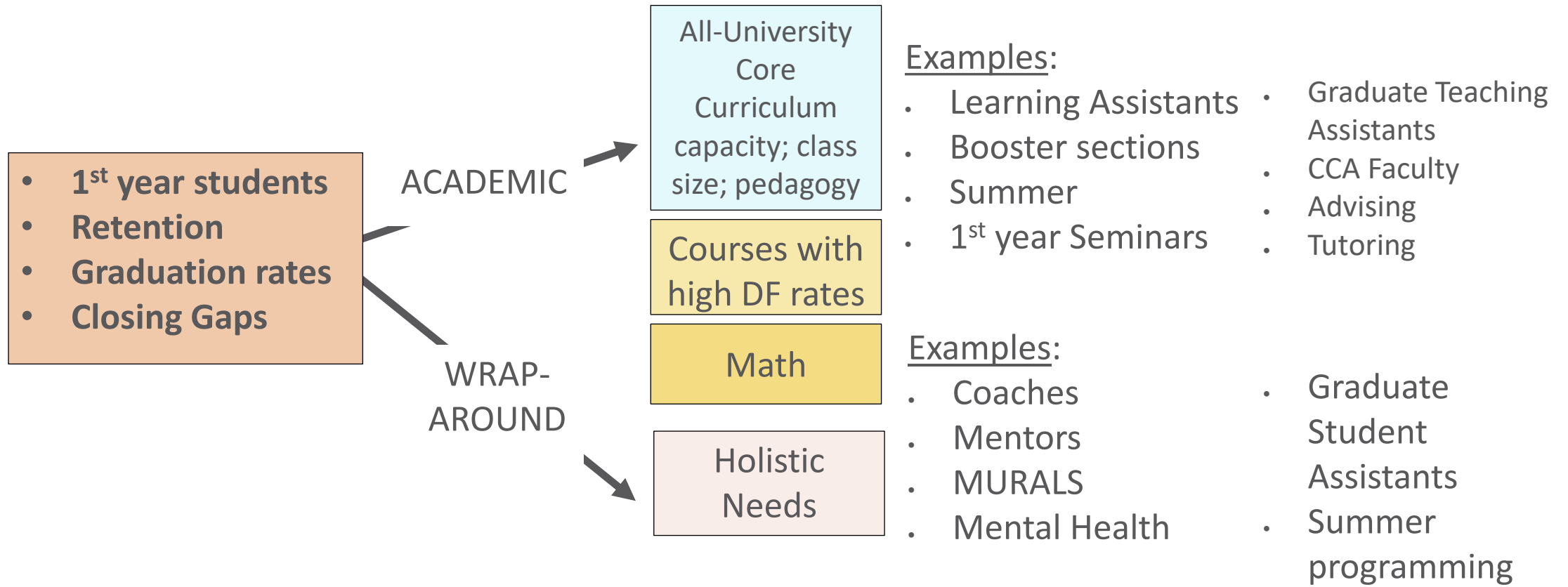
Grad rates correlated to admission rates

Admit Rate vs. 6-year Graduation rate



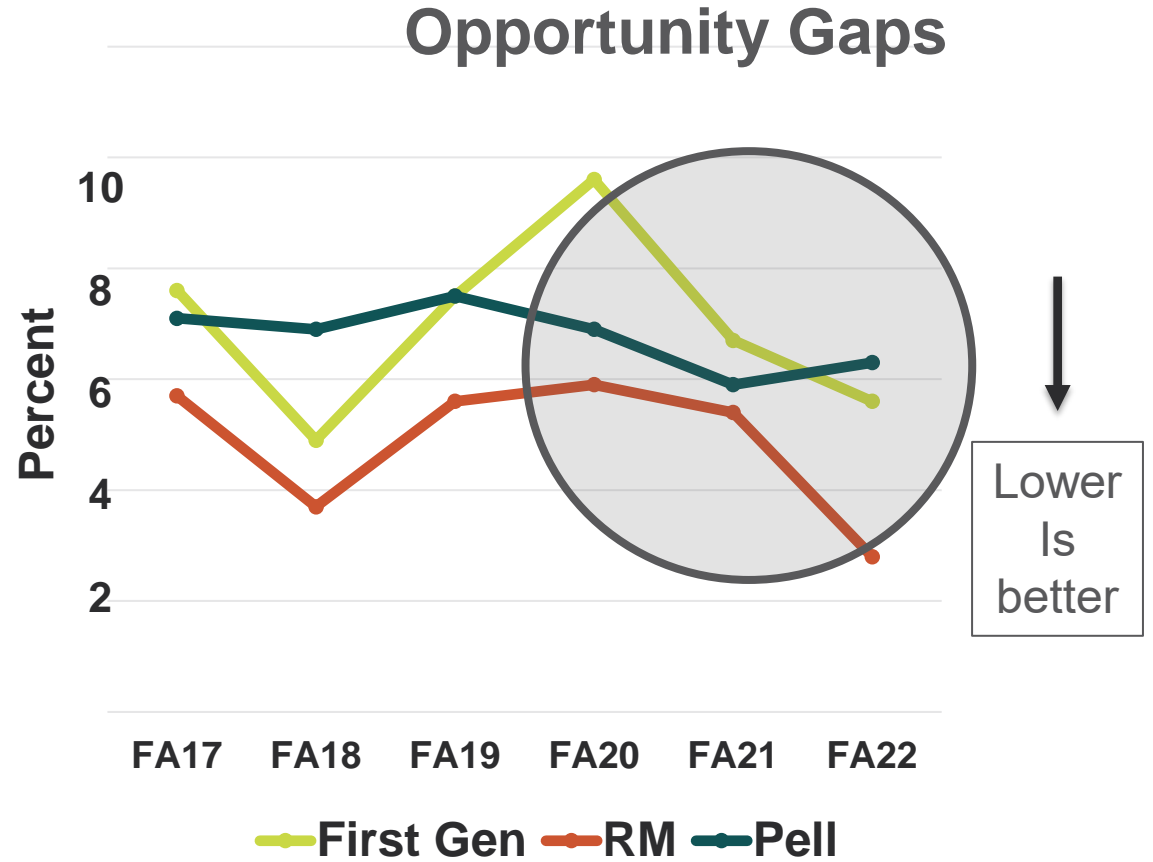
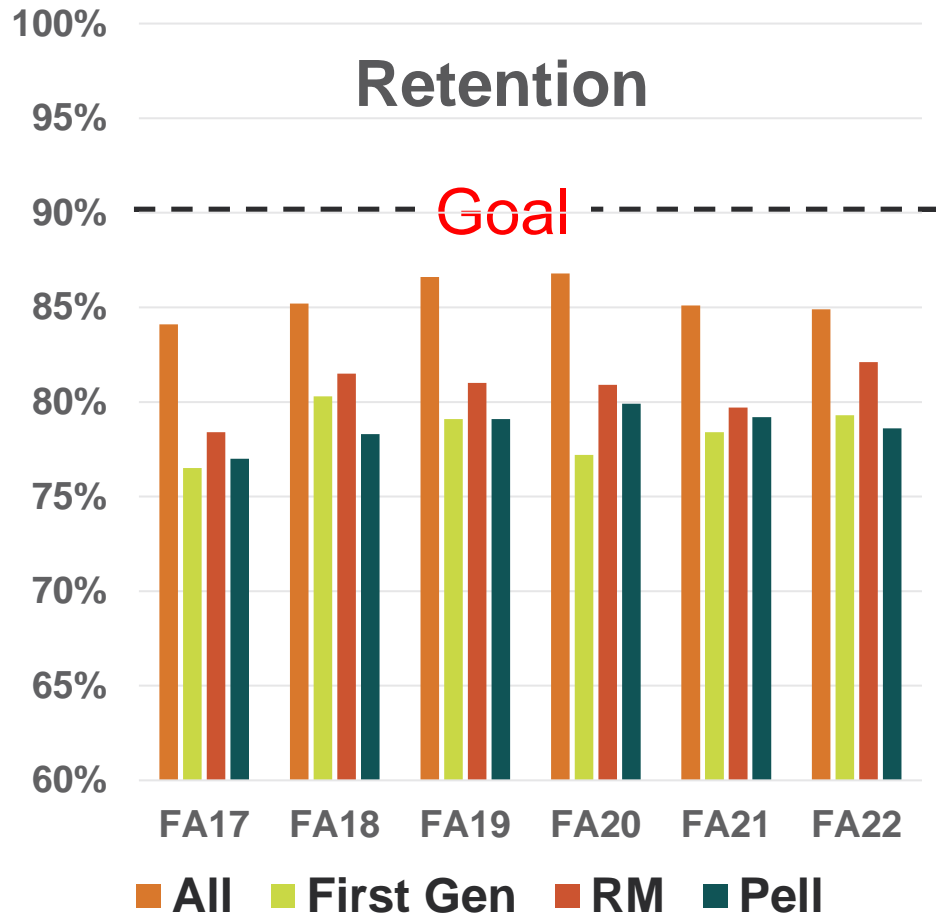
STUDENT SUCCESS INITIATIVES – Our Approach

Foster a campus culture that better understands, supports, and serves our students.



1st Fall to 2nd Fall

Our efforts may be starting to move the needle



SUMMARY OF INVESTMENTS: BOARD OF GOVERNORS FUNDS

Invested \$3M in Student Financial Aid

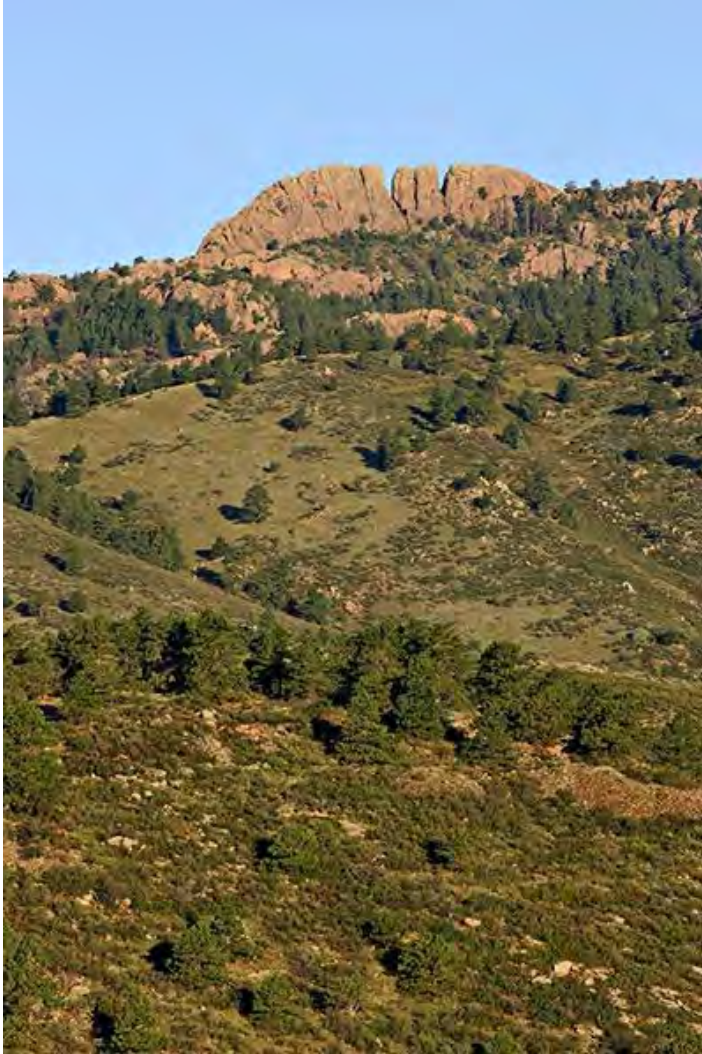
- Summer employment awards; Bridge programs; Need based aid

\$6M Allocated

- Reforming pre-calculus
- Developing database and analytical tools
- Supporting student research and mentoring activities
- Enhancing academic advising
- Establishing undergraduate learning assistant programs
- Providing specialized tutoring and professional development
- Developing first-year seminars
- Creating new learning communities

	FY22	FY23	FY24
Annual Funding	\$3,000,000	\$3,000,000	\$3,000,000
Prior Year Carryforward		\$2,030,797	\$1,879,657
Total Expenditures	\$969,203	\$3,151,140	\$4,386,831
Total Funds Remaining	\$2,030,797	\$1,879,657	\$492,826

INVESTMENT OF FUNDS ... a few highlights



1. Summer Support

- Summer Bridge Programs
- Summer Need-Based Financial Aid

Persistence rates ~95%

Borrowing down ~\$2M

2. New First Year Seminars

- 1-credit seminars focused on first-year students with opportunity gaps

Persistence rates increased by ~10% for first generation and limited income students

3. MATH reform (ONGOING)

- Additional small, in-person pre-calculus courses
- 3- and 4-credit options
- Emphasis on active learning, inclusion, and growth mindset

80% of students passed course and were able to advance to calculus

4. Undergraduate Learning Assistants

- ~200 Learning Assistants supporting ~4000 students annually
- Added to large courses (Chemistry, Biology, Physics); many with high fail rates

87% of students passed courses as compared to 70%; disproportionately better for minoritized students

5. Student Support Programs ... **95% persistence rates!**



Provides platform for students to showcase their scholarly work

Faculty and graduate student mentors

~100 students with marginalized identities each year

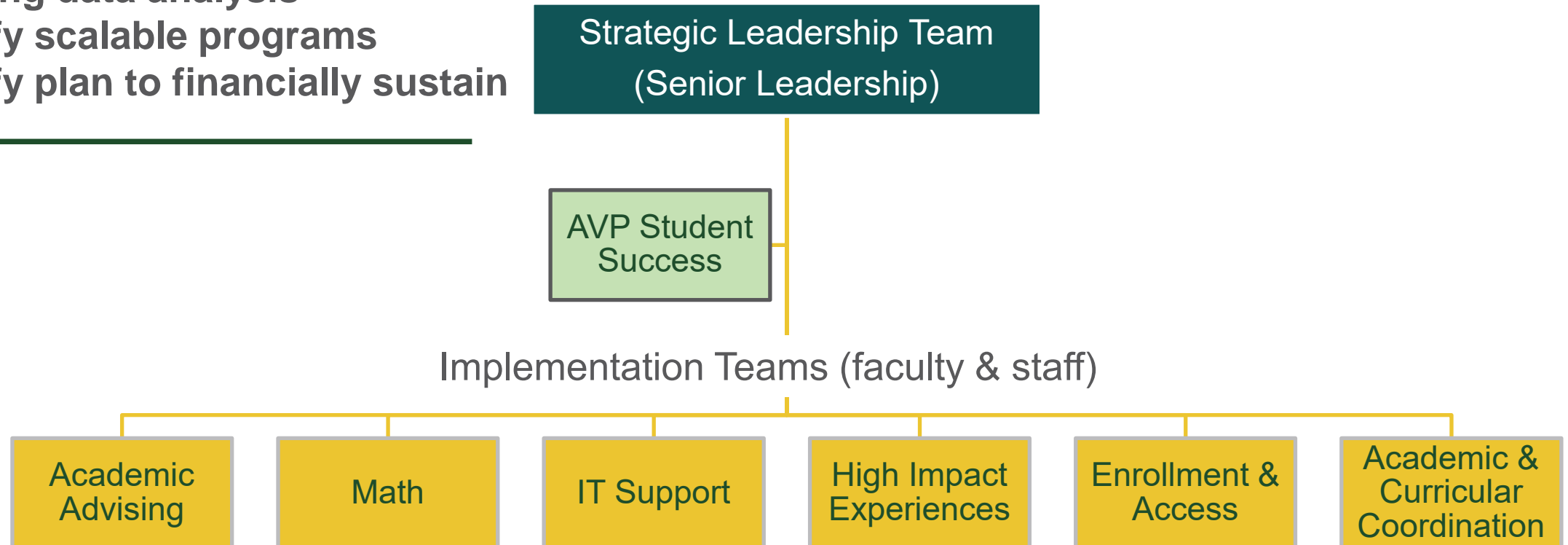
First Year Scholars Academy includes individualized faculty-guided research



Connects students of color in science, technology, engineering, math, and medicine (STEMM) disciplines with their academic colleges, industry partners, alumni, and professionals of color to increase persistence and graduation rates for students of color

Next Steps:

- Establish new leadership structure
- Ongoing data analysis
- Identify scalable programs
- Identify plan to financially sustain



Thank you



Colorado State University

Dr. Gail Mackin, Provost & Executive Vice President for Academic Affairs

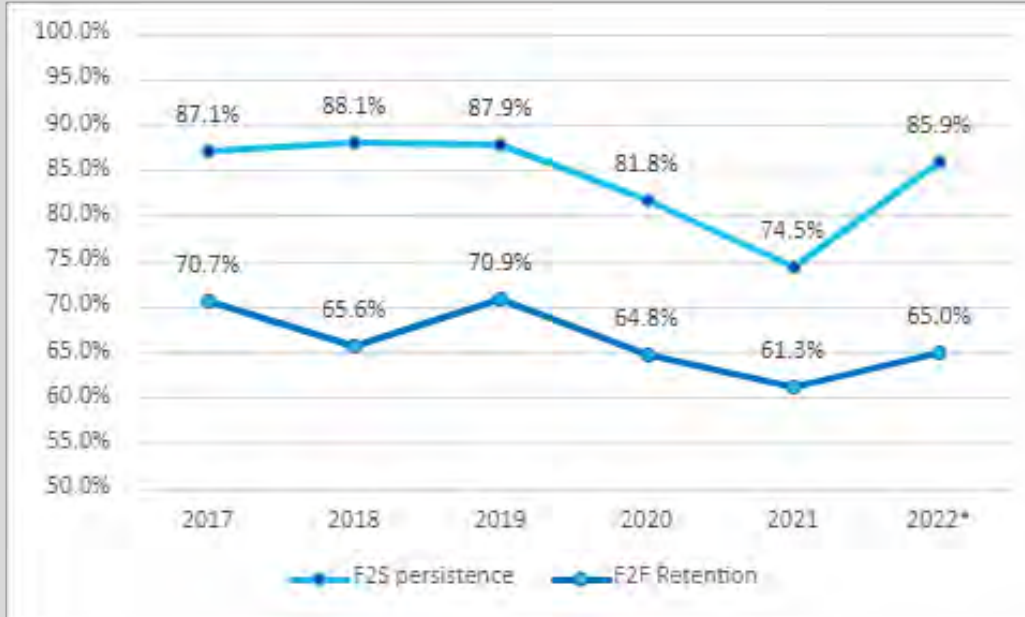
- Ph.D. Mathematics, Virginia Polytechnic Institute & State University (1997)
- Vice Provost, Central Washington University, 2017-2023
- Senior Associate Dean & Professor, Northern Kentucky University, 2001-2016
- Western Carolina University, 2000-2001
- Georgia Southern University, 1997-2000

- Expansion of Tutoring Services to additional disciplines
- Tutoring access, visibility and scheduling transitioned to Starfish
- 77 Discovery Scholars presented at Spring 2023 research symposium
- Discovery Scholars program: 72 students and 22 faculty for AY24
- Center for Teaching, Learning & Leadership provided 10 workshops and 2 microcredentials

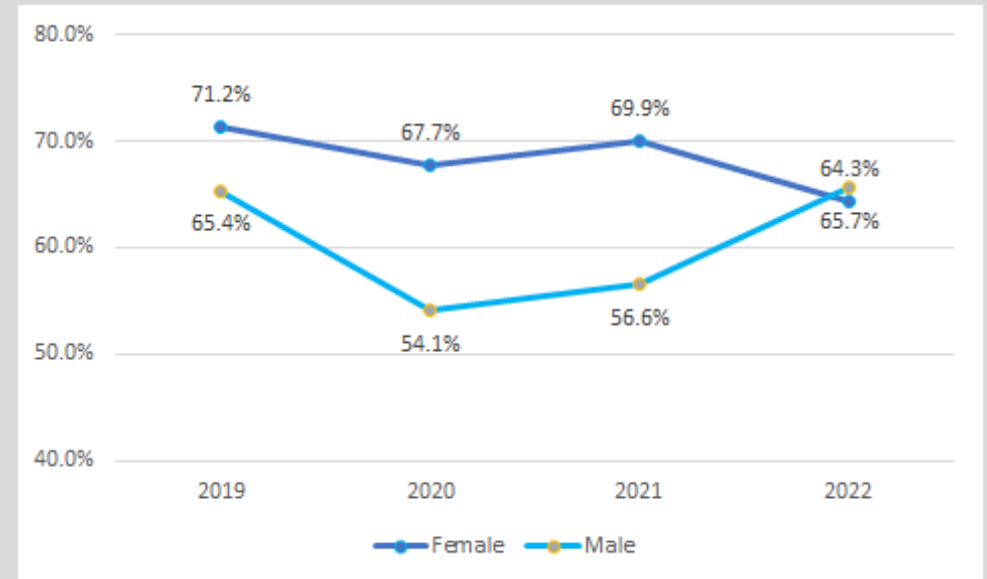
Equity Initiative Budget Details: CSU Pueblo

Table 1. Equity Initiative Budget Details				
		AY21-22	AY 2022/23	AY2023-24 (projected)
Administrative				
	Personnel/Fringe/Operating	\$63,905.93	\$61,183.00	\$68,000.00
Discovery Scholars				
	Faculty Mentors	\$58,609.15	\$90,164.00	\$81,000.00
	Student Researchers	\$115,831.66	\$122,124.00	\$160,000.00
	Research Supplies	\$7,116.22	\$2,273.00	\$10,000.00
	Total	\$181,557.03	\$214,561.00	\$251,000.00
Center for Teaching Learning & Leadership				
	Director & Faculty fellows	\$125,047.67	\$173,345.00	\$153,000.00
	Professional Development	\$40,746.50	\$12,000.00	\$30,000.00
	Success Acceleration Courses	\$31,499.30	-	-
	Total	\$197,292.47	\$185,345.00	\$183,000.00
Expanded Tutoring & Supplemental Instruction				
	Tutors	\$25,212.50	\$92,200.00	\$120,000.00
	Faculty/Staff Leads	-	-	\$10,500.00
	Total	\$25,212.50	\$92,200.00	\$130,500.00
	Academic Year Total	\$467,968.93	\$553,289.00	\$632,500.00
\$2.2M award	Balance	\$1,732,031.00	\$1,178,742.00	\$546,242.00

Retention & Persistence: CSU Pueblo



Overall First-Time Full-Time Cohort Persistence (fall to spring) & Retention (fall to fall)



Freshman Cohort Retention by Gender

Retention & Graduation: CSU Pueblo

FT Cohort	Retention		4-yr Graduation		5-yr graduation		6-yr graduation	
	FA21	FA22	FA18	FA19	FA17	FA18	FA16	FA17
Overall	61.3%	65.0%	22.7%	22.3%	34.0%	31.0%	35.0%	38.0%
Female	69.9%	64.3%	27.9%	28.8%	41.2%	37.8%	40.6%	45.2%
Male	56.6%	65.7%	18.0%	16.2%	26.8%	24.6%	31.4%	30.8%
Resident	66.1%	64.3%	23.2%	21.9%	37.5%	31.9%	36.5%	40.7%
Non-Resident	52.1%	68.1%	21.7%	23.7%	21.6%	28.6%	34.0%	28.1%
Pell	61.3%	60.2%	18.4%	17.5%	27.0%	27.2%	30.5%	30.1%
Non-Pell	64.8%	69.7%	26.5%	26.8%	41.1%	34.3%	41.9%	45.9%
Racially Minoritized	61.5%	63.6%	17.5%	18.8%	30.9%	27.4%	33.0%	34.8%
Non-racially Minoritized	65.0%	66.8%	28.7%	26.1%	37.7%	35.0%	39.8%	41.6%
Hispanic	64.0%	67.2%	18.5%	20.5%	33.1%	28.7%	37.1%	36.8%
Non-Hispanic	61.6%	61.5%	25.6%	23.4%	34.6%	32.5%	33.9%	38.8%
First gen	63.0%	61.7%	17.2%	19.9%	29.4%	30.3%	31.5%	33.2%
Non-first gen	63.2%	67.2%	25.8%	24.6%	36.8%	31.4%	37.0%	40.9%
rural	50.0%	55.5%	22.7%	17.0%	28.6%	25.8%	29.7%	31.7%
non rural	63.4%	65.2%	22.8%	22.8%	34.6%	31.6%	36.6%	38.7%

Enrollment

	FA19	FA20	FA21	FA22	FA23*	One-Year Change	
Headcount (RI & ES Online)	3,847	3,718	3,534	3,529	3,657	128	3.63%
Undergraduate	3,547	3,373	3,124	3,104	3,180	76	2.45%
Freshman	807	789	777	932	937	5	0.54%
Sophomore	633	604	534	501	579	78	15.57%
Junior	803	716	651	624	603	-21	-3.37%
Senior & Post Bach.	1,133	1,108	1,003	885	855	-30	-3.39%
NDS	171	156	159	162	206	44	27.16%
Graduate	300	345	410	425	477	52	12.24%
Masters & NDS	270	312	371	393	416	23	5.85%
Doctorate	30	33	39	32	61	29	90.63%

(RI=Resident Instruction, ES=Extended Studies, NDS=Non-Degree Seeking)

CSU Pueblo Enrollment, Persistence, Retention & Graduation is supported by:

- Academic Affairs
 - Dr. Gail Mackin, Provost & Executive Vice President
 - Dr. Helen Caprioglio, Associate Provost
- Enrollment Management & Extended Studies
 - Dr. Kristen White-Davis, Vice President
 - Dr. Kathryn Starkey, Dean of Extended Studies
- Student Affairs
 - Dr. Marie Humphrey, Vice President

Thank You



CSU GLOBAL

Student Success

Driving Mission-Achievement Through Holistic Student Support

Jerid Counterman, Acting Sr. Director of Student Experience

Student Success: Preliminary Enrollment Fall 23 - Fall A, B, C Terms

CSU Global is proud to support the degree attainment of modern learners in a 100% online environment through its Student Engagement, Retention, and Completion Rates outlined below.

Student Engagement for FY24 Fall A, B, and C Terms (D Term will start on October 9, 2023) is close to or exceeding expectations:

Term	Credit Hour Goal	Final	CH Melt (%)	% to Goal	Exp. % Participation	Actual % Participation
23FA	12834	12675	6.9%	98.8%	44.9%	49.0%
23FB	13118	12752	8.9%	97.2%	54.4%	63.8%
23FC	15510	15988		103.1%	53.7%	61.2%

Student Success: Preliminary Enrollment Fall 23

Category	Classification	Fall 2019 (Trimester)	Fall 2020 (Trimester)	Fall 2021 (Trimester)	Fall 2021 (Terms A & B)	Fall 2022 (Terms A & B)	Fall 2023 (Terms A & B)	1 year Change Fall A/B to Fall A/B
Credit Hours	Student Credit Hours	79,052	81,330	69,646	34,430	30,354	31,193	2.8%
	Average Student FTE	0.56	0.59	0.59	0.38	0.38	0.39	0%
Headcount	Undergraduate	7,740	7,529	6,520	5,139	4,697	4,775	1.7%
	Graduate	4,526	4,570	3,912	3,098	2,406	2,286	-5.0%
	Non-degree Seeking	365	325	277	103	164	184	12.2%
New students	New Undergraduate Students	3,236	3,038	2,375	1,194	1,170	972	-16.9%
Attendance Status	Full-Time	2,063	2,388	2,034	23	27	36	33.3%
	Part-Time	10,568	10,036	8,675	8,317	7,240	7,209	-0.4%
Gender	Male	5,063	5,145	4,586	3,571	3,160	3,328	5.3%
	Female	7,449	7,154	6,025	4,695	4,004	3,839	-4.1%
	Unknown	119	125	98	74	103	78	-24.3%
First Generation	First Generation	2,854	2,095	2,000	1,478	2,248	1,410	-37.3%
State of Residence	Colorado	4,478	4,286	3,779	2,854	2,497	2,585	3.5%
	Out of Colorado in US	8,024	8,000	6,778	5,372	4,678	4,568	-2.4%
	Foreign Country	129	138	152	114	92	92	0.0%
Financial Aid	Not a PELL Recipient	10,477	10,352	9,006	7,018	6,234	6,062	-2.8%
	PELL Recipient	2,154	2,072	1,703	1,322	1,083	1,183	14.5%
	Federal Loans Recipient	5,934	5,757	4,654	3,836	2,305	2,181	-5.4%
Rural Colorado	Rural Colorado	1,257	1,143	1,040	777	717	752	4.9%
	Not-Rural Colorado	3,221	3,143	2,739	2,077	1,780	1,833	3.0%
Race/Ethnicity	Asian	529	529	465	374	343	388	13.1%
	Black or African American	867	833	734	570	595	633	6.4%
	Native Hawaiian or Other Pacific Islander	39	14	10	9	3	12	300.0%

Student Success: Preliminary Enrollment Fall 23 (cont.)

Category	Classification	Fall 2019	Fall 2020	Fall 2021	Fall 2021 ¹ (Terms A & B)	Fall 2022 ² (Terms A & B)	Fall 2023 ³ (Terms A & B)	1 year Change Fall A/B to Fall A/B
Race/Ethnicity	Asian	529	529	465	374	343	388	13.1%
	Black or African American	867	833	734	570	595	633	6.4%
	Native Hawaiian or Other Pacific Islander	39	14	10	9	3	12	300.0%
	Hispanic/Latino	1,743	1,769	1,566	1,186	1,093	1,270	16.2%
	American Indian or Alaska Native	95	69	42	27	29	31	6.9%
	White	7,367	6,993	6,193	4,821	4,185	4,016	-4.0%
	Two or more races	282	149	80	58	62	183	195.2%
	Nonresident Alien	61	72	82	66	69	54	-21.7%
	Unknown	1,648	1,996	1,537	1,229	888	658	-25.9%
Age Category	24 or younger	1,682	1,717	1,506	1,053	866	915	5.7%
	25-34	5,594	5,574	4,607	3,683	3,082	3,032	-1.6%
	35-44	3,354	3,353	2,942	2,333	2,136	2,061	-3.5%

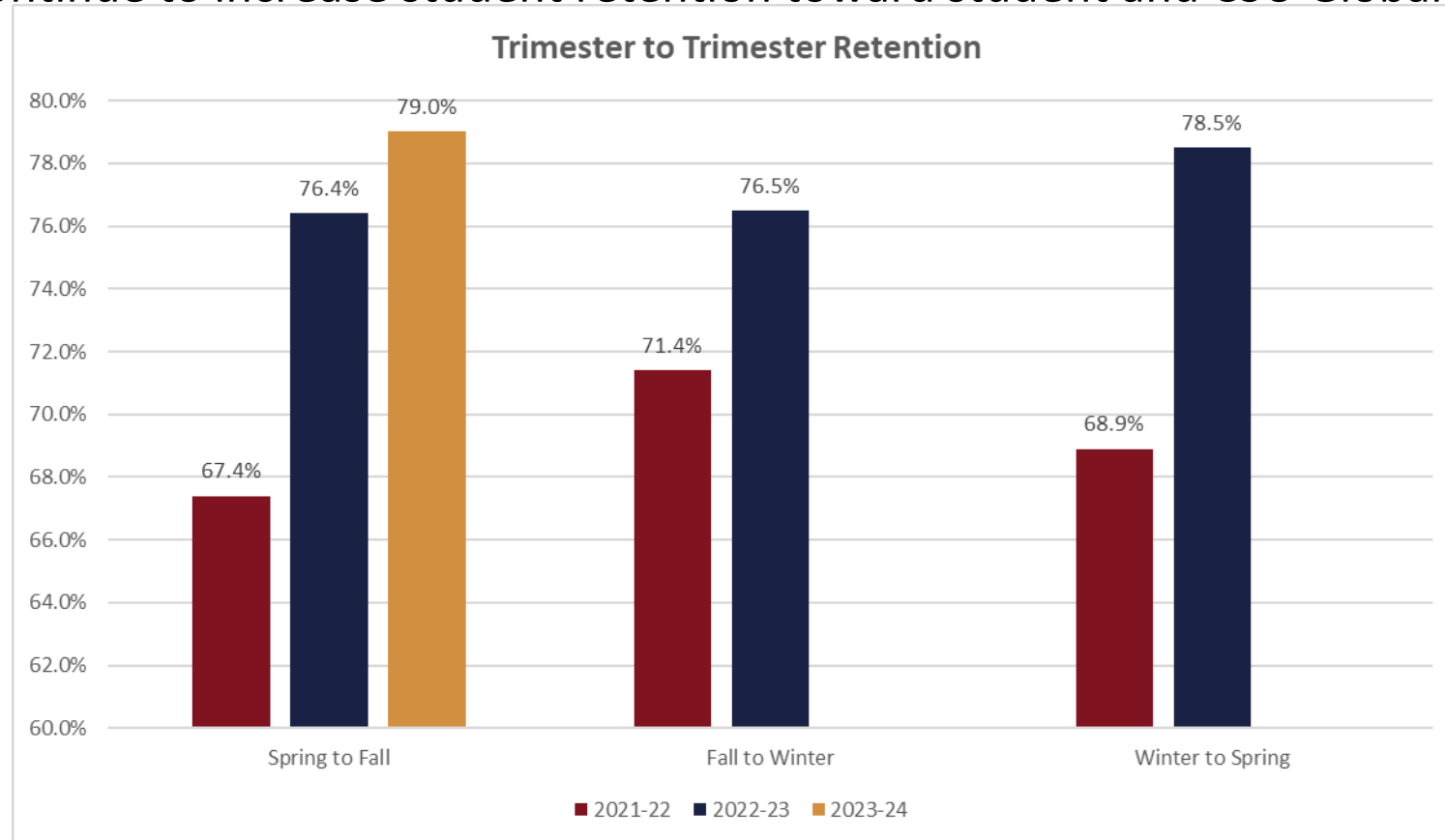
Student Success: Student Support

Student Retention to Program Completion is key to CSU Global mission achievement. To that end:

- Each student is assigned a dedicated Success Counselor who is here to help the student navigate their experience from their first course through graduation through 1-on-1 support that includes:
 - Certificate and degree planning
 - Resource orientation and facilitation
 - Troubleshooting and support in navigating policies and processes
- Library and academic support that provides access to synchronous and asynchronous services for research and tutoring that includes:
 - On-demand video tutorials
 - Personalized 1-on-1 support
 - Webinar series designed to promote use of services

Student Success: Student Persistence (Tri to Tri)

In the Active Student Demographic data, below you will see that the university faculty and staff efforts continue to increase student retention toward student and CSU Global mission achievement:



Student Success: Program Completion and Equity

CSU Global Program Completion Rates for Certificate and Degrees. CSU Global continues to narrow the gaps between Underserved Minority Populations and Non-underserved Minority Populations in Program Completion and Active Student statuses:

Year Enrolled Fiscal Year	URM	Graduate		Active		Switch Program Active		Upgrade Active	
		Head Counts	Within Group% along CurrentStatus	Head Counts	% along C	Head Counts	Within Group% along CurrentStatus	Head Counts	Within Group% along CurrentStatus
2018	URM	713	40.5%	59	3.4%	3	0.2%		
	Non-URM	2,425	48.1%	202	4.0%	20	0.4%	8	0.2%
	Unknown	254	44.3%	24	4.2%	2	0.3%	1	0.2%
2019	URM	712	40.8%	132	7.6%	13	0.7%	2	0.1%
	Non-URM	2,200	47.1%	295	6.3%	23	0.5%	15	0.3%
	Unknown	493	40.8%	88	7.3%	7	0.6%		
2020	URM	594	36.9%	198	12.3%	12	0.7%	1	0.1%
	Non-URM	1,682	43.8%	468	12.2%	11	0.3%	9	0.2%
	Unknown	748	38.8%	246	12.7%	8	0.4%	2	0.1%
2021	URM	446	29.5%	320	21.2%	6	0.4%	4	0.3%
	Non-URM	1,349	34.2%	1,019	25.8%	20	0.5%	4	0.1%
	Unknown	275	36.7%	178	23.7%	5	0.7%		
2022	URM	158	11.2%	720	51.1%	4	0.3%	1	0.1%
	Non-URM	428	13.5%	1,814	57.2%	13	0.4%	4	0.1%
	Unknown	79	14.2%	294	53.0%	2	0.4%	4	0.7%
2023	URM	20	1.4%	1,286	90.3%	3	0.2%		
	Non-URM	23	0.8%	2,655	94.0%	2	0.1%		



Student Affairs

