

THE UNIVERSITY OF WYOMING

BOARD OF TRUSTEES' REPORT

January 24-26, 2024

This document can also be found on the University of Wyoming Board of Trustees secure website.

University of Wyoming

Vision

Use our unique strengths to make Wyoming and the world a better place.

Mission

As Wyoming's university, we unlock the extraordinary in every person through education, research, innovation, engagement, and service.

Values

- Access to an affordable, high-quality education.
- Real-world education where students learn by doing.
- A welcoming and supportive learning community fostered by integrity, inclusivity, freedom of expression, and respect.
- The growth, health, and leadership capacity of all members of the university community.
- Wyoming's wild and working lands as an asset to be utilized, understood, stewarded, and treasured.
- Our partnership and engagement with Wyoming communities in the creation and exchange of knowledge and resources.
- Our role as a catalyst for innovation and economic vitality.

(Accepted January 2023)



**TRUSTEES OF THE UNIVERSITY OF WYOMING
BOARD MEETING AGENDA
Wednesday, January 24 -Friday, January 26, 2024
Marian H. Rochelle Gateway Center
Laramie, Wyoming**

UNOFFICIAL MEETING SCHEDULE – COMMITTEE MEETINGS

Wednesday, January 24, 2024

Meeting Location – Marian H. Rochelle Gateway Center

Lunch will be provided to Trustees at the meeting location.

11:00 a.m. - 1:00 p.m. -- Facilities Contracting Committee

Committee Members: Kermit Brown (Chair)/Brad LaCroix/Jim Mathis/Carol Linton/Dave True

Salon D

11:00 a.m. – 1:00 p.m. -- Fiscal and Legal Affairs Committee

Committee Members: Macey Moore (Chair)/Brad Bonner/David Fall/Elizabeth Greenwood

Salons C

1:00 – 3:00 p.m. -- Research and Economic Development Committee

Committee Members: David Fall (Chair)/Brad Bonner/Elizabeth Greenwood/Brad LaCroix

Salons C

1:30 – 3:30 p.m. -- Biennium Budget Committee

Committee Members: Laura Schmid-Pizzato (Chair)/Kermit Brown/Carol Linton/Dave True

Salon D

3:30 – 5:00 p.m. -- Academic and Student Affairs Committee

Committee Members: Michelle Sullivan (Chair)/Brad Bonner/Jim Mathis/Macey Moore/

Laura Schmid-Pizzato

Salons C

5:00 – 5:30 p.m. -- Legislative Relations Committee

Committee Members: Kermit Brown (Chair)/Elizabeth Greenwood/Carol Linton/Laura Schmid-Pizzato

Boyd Conference Room



**TRUSTEES OF THE UNIVERSITY OF WYOMING
BOARD MEETING AGENDA
Wednesday, January 24 -Friday, January 26, 2024
Marian H. Rochelle Gateway Center
Laramie, Wyoming**

OFFICIAL MEETING SCHEDULE

Thursday, January 25, 2024

Meeting Location: Marian H. Rochelle Gateway Center

- 7:00-7:45 a.m.** **Informal breakfast at the Holiday Inn**

- 7:45 a.m.** **Travel to the Marian H. Rochelle Gateway Center for the regular Board meeting**

- 8:00 – 9:30 a.m.** ***Executive Session [Session I]***
Meeting Location – Marian H. Rochelle Gateway Center

- 9:30 a.m.** ***Pledge of Allegiance [Marty Martinez, UW Marna M. Kuehne Foundation Veterans Services Center]***

- 9:45 a.m.** Introductions/Recognitions:
 - Cowboys Football Coach Jay Sawvel – Welniak
 - Wyoming Community College Commission Executive Director Ben Moritz – Seidel
 - ASUW President Kameron Murfitt – Seidel

- 10:00 a.m.** Update to Board: UW President Ed Seidel

- 10:15 a.m.** Research Excellence Presentation: Cattle and Carbon – Ranch-scale Investigations into Opportunities for Ranchers and Rangelands – Scasta 8/19

- 11:00 a.m.** ***Public Testimony***

- 11:15 a.m.** Update to Board: Trustees Education Initiative – Bostrom/Shim 9/39

- 11:35 a.m.** Update: K-12 Pilots and Masters Credits and College of Education Master Education Competency Program – Seidel/Carman/Shim11

- 12:00 p.m.** Annual Report: Academic Affairs, Sabbaticals/Leave for previous Academic Year (per UW Regulation 2-16) – Benham-Deal 12/51
 - Presentation by Associate Professor of English, Arielle Zibrak



**TRUSTEES OF THE UNIVERSITY OF WYOMING
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Wednesday, January 24 -Friday, January 26, 2024
Marian H. Rochelle Gateway Center
Laramie, Wyoming**

- 12:30 p.m.** *Working Lunch – Trustees Open Discussion on Any Topic*
- 1:30 p.m.** Annual Report: Division of Research and Economic Development; Science Initiative Update – Chitnis 13/61
- 1:45p.m.** Information: Research and Economic Development Division FY2023 Report on Research Support and Technology Transfer – Chitnis81
- 2:00 p.m.** Consideration and Action: Naming of the Science Initiative Building -- McKinley
- 2:15 p.m.** UW Fee Book Proposal for Academic Year 24-25 (per UW Regulation 7-11) – Kean [*see Biennium Budget Committee materials*]
- 2:30 p.m.** Trustees’ Annual Discrimination and Harassment, Mandatory Report, and Bystander Intervention Training – Osborn 14/100
- 3:00 p.m.** *Break*
- 3:15– 5:00 p.m.** **Trustee Committee Reports**

Academic and Student Affairs Committee; Michelle Sullivan (Chair)

- Consideration and Action:
 - Honorary Degrees and Awards recommendations [*materials provided as supplemental*]

Biennium Budget Committee; Laura Schmid-Pizzato (Chair)

- Consideration and Action:
 - UW Fee Book Proposal for Academic Year 24-25 (per UW Regulation 7-11)
 - Financial Aid Plan AY 2025-2026/FY2026 (per UW Regulation 7-11)



**TRUSTEES OF THE UNIVERSITY OF WYOMING
BOARD MEETING AGENDA
Wednesday, January 24 -Friday, January 26, 2024
Marian H. Rochelle Gateway Center
Laramie, Wyoming**

Facilities Contracting Committee; Kermit Brown (Chair)

- Consideration and Action:
 - Natatorium – Design and Building Name
 - 15th Street Design
 - War Memorial Stadium LED Lighting Upgrade
 - War Memorial Stadium West Stands Additions and Renovations – Change Order
 - Student Housing and Dining – Change Order
 - College of Law – Graphics
 - Athletics Tracks Resurfacing – Project, Budget and Delivery Method
 - Sheridan Research Extension Center – Project Budget and Delivery Method
 - Red Barn -- Deconstruction

Fiscal and Legal Affairs Committee; Macey Moore (Chair)

Legislative Relations Committee; Kermit Brown (Chair)

Research and Economic Development Committee; David Fall (Chair)

Special Event

Thursday, January 25, 2024

*Celebration of Research Excellence, 5:30 p.m. Reception; 6:15 p.m. Dinner and Program (Invitation Only)
Marian H. Rochelle Gateway Center*

Friday, January 27, 2024

8:00 – 9:30 a.m. Executive Session [Session II]

Meeting Location – Marian H. Rochelle Gateway Center

9:30 a.m. Break

9:45 a.m. – 11:00 a.m. Business Meeting

Meeting Location – Marian H. Rochelle Gateway Center

Roll Call

Approval of Board of Trustees Meeting Minutes (*Public Session & Executive Session*)

- December 13, 2023, UW Board of Trustees Conference Call Meeting



**TRUSTEES OF THE UNIVERSITY OF WYOMING
BOARD MEETING AGENDA
Wednesday, January 24 -Friday, January 26, 2024
Marian H. Rochelle Gateway Center
Laramie, Wyoming**

Discussion: Appointment of Board of Trustees Officer Nomination Committee – McKinley

UW Regulations Housekeeping – Evans 15/114

Reports

- ASUW – President Kameron Murfitt
- Staff Senate – President Adam Comeau
- Faculty Senate – Chairman Bob Sprague

Public Testimony [*Scheduled for Thursday, January 25, 2024, 11:00 a.m.*]

Committee of the Whole

Regular Business

Board Committee Reports [*Scheduled for Thursday, January 25, 2024, at 3:15 p.m.*]

Trustee Committees - [*Note: Committees of the Board will provide reports during the regular work sessions and will not have a formal report to provide during the Business Meeting.*]

Liaison to Other Boards –

- UW Alumni Association Board – Laura Schmid-Pizzato & Jack Tennant
- Foundation Board – Brad Bonner & David Fall
- Haub School of Environment & Natural Resources – Michelle Sullivan
- Energy Resources Council – Dave True
- Cowboy Joe – John McKinley

Proposed Items for Action:

- I. Contracts, agreements, procurements over \$2 million or 10 years in length – Evans
- II. Academic Personnel Report (to include Emeritus Faculty Designations) – Carman/Benham Deal
- III. WWAMI Appeal

Information Only Items: [*no action, discussion, or work session*]

- Contracts and Procurement Report (per UW Regulation 7-2) – Evans ... 17/127
- Capital Construction Report – Brown/Mai132
- Foundation Monthly Giving Report – Stark

New Business

Date of Next Meeting: February 14, 2024 (conference call)

Adjourn Meeting

AGENDA ITEM TITLE: Research Excellence Presentation Cattle and Carbon: Ranch-scale investigations into opportunities for ranchers and rangelands. - Derek Scasta

SESSION TYPE:

- Work Session
- Information Session
- Other
- [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- Yes (select below):
 - Institutional Excellence
 - Student Success
 - Service to the State
 - Financial Growth and Stability
- No [Regular Business]

Attachments are provided with the narrative.

EXECUTIVE

SUMMARY:

Dr. Derek Scasta is an associate professor of rangeland management and UW Extension rangeland specialist. He also serves as the associate director of the Laramie Research and Extension Center. Increasing carbon dioxide atmospheric concentrations is creating incentives for innovation in carbon storage and capture. Because rangelands and pastures are known to store a significant portion of the world’s soil organic carbon stock, the ~655 million acres of these lands in the US are increasingly important for such an ecosystem service with many lingering questions. Dr. Scasta is part of a five-year, ~\$19 Million, multi-state study investigating how grazing management influences soil health and carbon sequestration and storage. The project involves 11 nonprofits, private research organizations, and public universities in the U.S. and U.K with work on the UW McGuire Ranch and 20 cooperating ranches in Wyoming and Colorado. The study, launched in 2022, employs state-of-the-art technology to address timely ranch management and environmental questions. By quantifying how grazing management affects carbon sequestration, the study may help Wyoming producers capitalize on the growing market for carbon credits. Ultimately, the goal is to develop region-specific management suggestions to optimize environmental and economic productivity, develop accessible tools to track soil health, and build models predicting trends in water and nutrient cycles. The project also includes a sociological component examining how grazing management affects economic and social wellbeing.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

N/A

WHY THIS ITEM IS BEFORE THE BOARD:

Informational item

ACTION REQUIRED AT THIS BOARD MEETING:

N/A.

PROPOSED MOTION:

N/A

PRESIDENT’S RECOMMENDATION:

N/A

AGENDA ITEM TITLE: Trustees Education Initiative Update, Bostrom, Shim, Gull

SESSION TYPE:

- Work Session
 Information Session
 Other
 [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- Yes (select below):
 Institutional Excellence
 Student Success
 Service to the State
 Financial Growth and Stability
 No [Regular Business]

Attachments are provided with the narrative.

EXECUTIVE SUMMARY:

The Trustees' Education Initiative (TEI) continues to advance its three initiatives to enhance teacher and student support and to address teacher shortages in Wyoming. During the presentation, we will provide updates on key initiatives, with a detailed focus on the MECP and CTE efforts.

1. **High Altitude Pathways (HAP):** Enhancing post-secondary education enrollment among rural high school students through targeted programs and support.
2. **Master Educator Competency Program (MECP):** Equipping Wyoming teachers with skills for student-centered learning and 21st-century student success, the UW team has developed 7 short courses ('drops') so far, with 13 more in development for the 2023-2024 academic year. The UW team plans to develop an additional 4 drops in the 2024-2025 academic year. Combined with the drops from 2Rev's catalogue, a total of 48 drops will be available by the 2024-2025 academic year. Details on how the UW's MECP contributes to the partnership in Wyoming's Future of Learning initiative will also be presented.
3. **Wyoming Teacher-Mentor Corps (WTMC):** Promoting teacher excellence and supporting emerging teachers. The second cohort is progressing smoothly through the WTMC curriculum.
4. **Career Technical Education (CTE) Teacher Preparation Program Initiative:** Addressing CTE teacher shortages and meeting the needs of Wyoming's citizens, industry, and business. A pilot bridge course has been initiated, and a video on Wyoming CTE teachers will be shown during our presentation.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

The previous TEI update was provided during the BoT November 2023 meeting.

WHY THIS ITEM IS BEFORE THE BOARD:

This item is required as part of the Trustees' Annual Schedule of Items to Approve, Discuss, or Report.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A

PROPOSED MOTION:

N/A

PRESIDENT'S RECOMMENDATION:
N/A

AGENDA ITEM TITLE: K-12 Pilots and Masters Credits and College of Education Master Educator Competency Program, Seidel/Carman/Shim

SESSION TYPE:

- Work Session
- Information Session
- Other
- [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- Yes (select below):
 - Institutional Excellence
 - Student Success
 - Service to the State
 - Financial Growth and Stability
- No [Regular Business]

Attachments are provided with the narrative.

EXECUTIVE SUMMARY:

UW's Master Educator Competency Program (MECP) aims to address Wyoming teacher attrition while providing in-depth support systems across K-12 communities statewide. UW is partnering with 2Revolutions, a leader in education innovation solutions, to develop relevant, timely content to support the goals of MECP. At present, UW is piloting professional development activities with 2Revolutions in nine Wyoming school districts. The pilot will inform broader, longer-term professional development opportunities provided through MECP. President Seidel, Provost Carman and Interim Dean Shim will discuss progress made on MECP and how it integrates into existing master's degrees.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

As part of the Trustee's Education Initiative, MECP was last discussed during the November Board of Trustees Meeting.

WHY THIS ITEM IS BEFORE THE BOARD:

Requested by Chair of the Board.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A. Information only.

PROPOSED MOTION:

N/A. Information only.

PRESIDENT'S RECOMMENDATION:

N/A. Information only.

AGENDA ITEM TITLE: Annual Report: Sabbaticals/Leave report, Carman/Benham Deal

SESSION TYPE:

- Work Session
- Education Session
- Information Item
- Other:

[Committee of the Whole – Items for Approval]

Attachments are provided with the narrative.

APPLIES TO STRATEGIC GOALS:

- Yes (select below):
 - Institutional Excellence
 - Student Success
 - Service to State
 - Financial Growth and Stability
- No [Regular Business]

EXECUTIVE SUMMARY:

Information is provided to the Board about sabbatical and professional development leaves taken by faculty during Academic Year 2022-2023.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

The Board receives regular information about personnel matters, including but not limited to sabbatical and professional development leaves.

WHY THIS ITEM IS BEFORE THE BOARD:

Pursuant to University Regulation 2-16 (Sabbatical and Professional Development Leave), the Provost shall submit an annual report detailing the sabbatical and professional development leaves approved for the preceding academic year.

ACTION REQUIRED AT THIS BOARD MEETING:

No action required.

PROPOSED MOTION:

No motion required.

PRESIDENT'S RECOMMENDATION:

No recommendation required.

**AGENDA ITEM TITLE: Research and Economic Development Division Annual Report,
Chitnis**

SESSION TYPE:

- Work Session
- Information Session
- Other
- [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- Yes (select below):
 - Institutional Excellence
 - Student Success
 - Service to the State
 - Financial Growth and Stability
- No [Regular Business]

Attachments are provided with the narrative.

EXECUTIVE SUMMARY:

The Research and Economic Development Division (REDD) of the University of Wyoming catalyzes expansion of UW’s knowledge enterprise, provides experiential learning opportunities for UW students, and facilitates innovation and engagement to support economic development across Wyoming. This report details the strategies initiated in FY2023 and implemented in support of UW’s strategic objectives during FY2024. The presentation will include an update on staffing in the division including the Technology Transfer office.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

Annual Item

WHY THIS ITEM IS BEFORE THE BOARD:

Annual informational topic provides an opportunity to obtain feedback.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A.

PROPOSED MOTION:

N/A

PRESIDENT’S RECOMMENDATION:

N/A

AGENDA ITEM TITLE: Discrimination and Harassment, Mandatory Reporting, and Bystander Intervention Training, Osborn

SESSION TYPE:

- Work Session
- Education Session
- Information Item
- Other:

[Committee of the Whole – Items for Approval]

Attachments are provided with the narrative.

APPLIES TO STRATEGIC PLAN:

- Yes (select below):
 - Driving Excellence
 - Inspiring Students
 - Impacting Communities
 - High-Performing University
- No [Regular Business]

EXECUTIVE SUMMARY:

Per the U.S. Department of Education’s 2020 Title IX Regulations on Sexual Harassment, the University of Wyoming is required to take specific steps in response to notice of alleged sexual harassment. Per UW Regulation 4-2, all UW employees are required to report harassment and discrimination to the University’s Equal Opportunity Report and Response unit and the Title IX Coordinator. This training session provides a brief overview of sexual harassment and discrimination, mandatory reporting, accommodations for a disability, and bystander intervention.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

The Board of Trustees is periodically trained on Title IX Regulations and the University’s related policies and procedures.

WHY THIS ITEM IS BEFORE THE BOARD:

Training about these topics is required for all UW employees. While Board members are not mandatory reporters, it is important for the Board to receive information about sexual harassment and discrimination, mandatory reporting, accommodations for a disability, implicit bias and bystander intervention.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A

PROPOSED MOTION:

N/A

PRESIDENT’S RECOMMENDATION:

AGENDA ITEM TITLE: Adoption of UW Regulations 1-103, 2-17, 2-122, 2-208, 3-2, 4-5, 5-5, 6-11, 8-2, 9-3, 11-9, 12-6 (Standard Administrative Policies and Procedures – Governance and Structure, Academic Personnel, Academic Management, Enrollment Management, Athletics, Employment and Ethics, Facilities, Information Technology, Research and Economic Development, Student Affairs, and University Relations) - Evans

SESSION TYPE:

- Work Session
 Education Session
 Information Item
 Other:
[Committee of the Whole – Items for Approval]

Attachments are provided with the narrative.

APPLIES TO STRATEGIC PLAN:

- Yes (select below):
 Driving Excellence
 Inspiring Students
 Impacting Communities
 High-Performing University
 No [Regular Business]

EXECUTIVE SUMMARY:

At the September 2016 Board of Trustees meeting, the Board approved review by UW Administration of UW’s current regulatory structure, to include the following:

- 1) Phasing out presidential directives;
- 2) Defining regulation versus policy/procedure;
- 3) Creating a new “look” and format for the regulations; and
- 4) Updating the substance of the regulations, policies, and procedures as needed, including determining whether there are any substantive gaps.

At the January 2017 Board of Trustees meeting, the University proposed 12 sections for the new ***Governing Regulations and Standard Administrative Policies and Procedures website***.

Section 1: Governance and Structure

Section 2: Academic Affairs

Section 3: Athletics

Section 4: Diversity and Equal Opportunity

Section 5: Employment and Ethics

Section 6: Facilities

Section 7: Finance and Business

Section 8: Information Technology

Section 9: Research and Economic Development

Section 10: Safety and Security

Section 11: Student Affairs

Section 12: University Relations

The new structure involves three levels of policies:

- 1) Governing Regulations (Level A)
- 2) Standard Administrative Policies and Procedures (Level B)
- 3) Department/Unit Administrative Policies and Procedures (Level C)

On September 14, 2018, the Board approved UW Regulations 7-9 and 10-2 related to Standard Administrative Policies and Procedures (SAP) for Business and Finance and Safety and Security. As a housekeeping measure and to allow for consistent numbering of SAPs, we are recommending adopting similar regulations for each regulatory section.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

None.

WHY THIS ITEM IS BEFORE THE BOARD:

UW Regulation 1-101 requires that the Board approve modifications to UW Regulations.

ACTION REQUIRED AT THIS BOARD MEETING:

Board approval, modification, or disapproval of the recommended modifications to the Regulations.

PROPOSED MOTION:

“I move to authorize adoption of UW Regulations 1-103, 2-17, 2-122, 2-208, 3-2, 4-5, 5-5, 6-11, 8-2, 9-3, 11-9, 12-6, as presented to the Board”

PRESIDENT’S RECOMMENDATION:

The President recommends approval.

AGENDA ITEM TITLE: Service Contract and Procurement Reports, Evans

SESSION TYPE:

- Work Session
- Information Session
- Other
- [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- Yes (select below):
 - Institutional Excellence
 - Student Success
 - Service to the State
 - Financial Growth and Stability
- No [Regular Business]

- Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

Per UW Regulation 7-2 (Signature Authority), unless otherwise limited by UW Regulation or reserved by the Board of Trustees, the President shall have authority to approve and/or sign University contracts, federal contracts, agreements, memorandums of understanding, and procurements that involve an external party, require consideration (paid or received) valued less than \$2,000,000 (one-time or in aggregate), and for which the term is less than ten years. The President may delegate this authority to University Officers for such contracts, federal contracts, agreements, memorandums of understanding, and procurements that require consideration (paid or received) valued less than \$1,000,000 (one-time or in aggregate) and for which the term is less than five years.

As required by the Regulation, attached are the following reports:

- 1) Service Contracts (including contracts, federal contracts, agreements, and memorandums of understanding) valued at \$50,000 or above (one-time or in aggregate) from October 16, 2023 – December 15, 2023
- 2) Procurements valued at \$50,000 or above (one-time or in aggregate) from October 16, 2023 – December 15, 2023

Service contract workflow

Per the University's Standard Policy and Procedure (Signature Authority), the President can delegate signature authority to University officers for service contracts valued less than \$1,000,000 (one-time or in aggregate) and for which the term is less than five years.

Procurement workflow

Cost Center Managers (business manager level or designee) approve all purchases, and are the final approvers for purchases of \$99,999 or less. Deans/Associate Vice Presidents are the final approvers for purchases between \$100,000 and \$499,999. Vice Presidents are the final approvers for purchases between \$500,000 and \$999,999. The President is the final approver for purchases between \$1,000,000 and \$1,999,999. The Board of Trustees approves purchases of \$2,000,000 and above.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

Standing information item at each in-person Board of Trustees meeting.

WHY THIS ITEM IS BEFORE THE BOARD:

Per UW Regulation 7-2 (Signature Authority), at each regular meeting of the Board of Trustees (excluding conference calls), the President shall provide a written report to the Board of Trustees identifying each contract, federal contract, agreement, memorandum of understanding, or procurement valued at \$50,000 or above (one-time or in aggregate) signed by the President or designee under this provision.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A. Information Only.

PROPOSED MOTION:

N/A. Information Only.

PRESIDENT'S RECOMMENDATION:

N/A. Information Only.

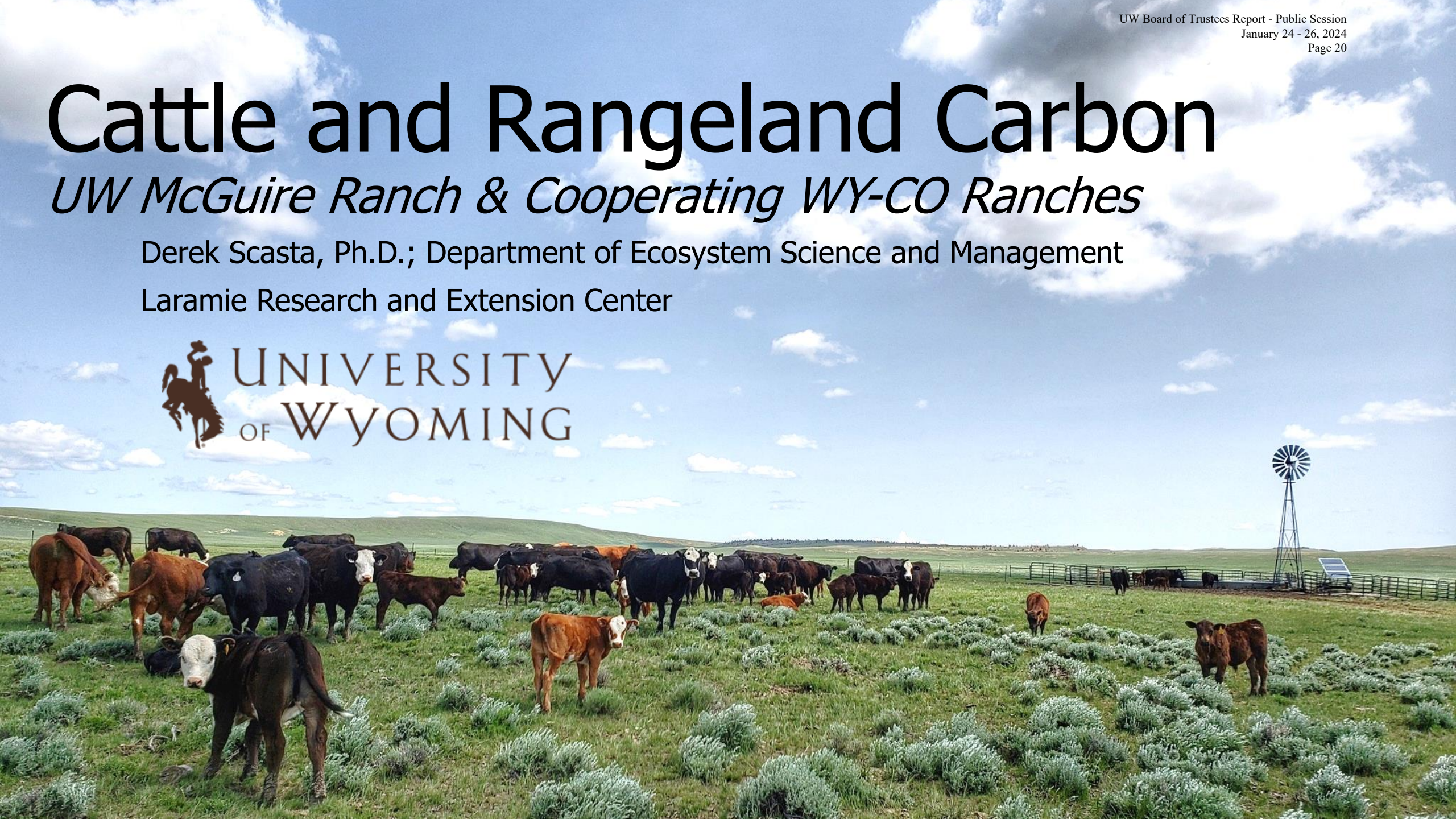
AGENDA ITEM TITLE: Research Excellence Presentation Cattle and Carbon: Ranch-scale investigations into opportunities for ranchers and rangelands. - Derek Scasta

Cattle and Rangeland Carbon

UW McGuire Ranch & Cooperating WY-CO Ranches

Derek Scasta, Ph.D.; Department of Ecosystem Science and Management

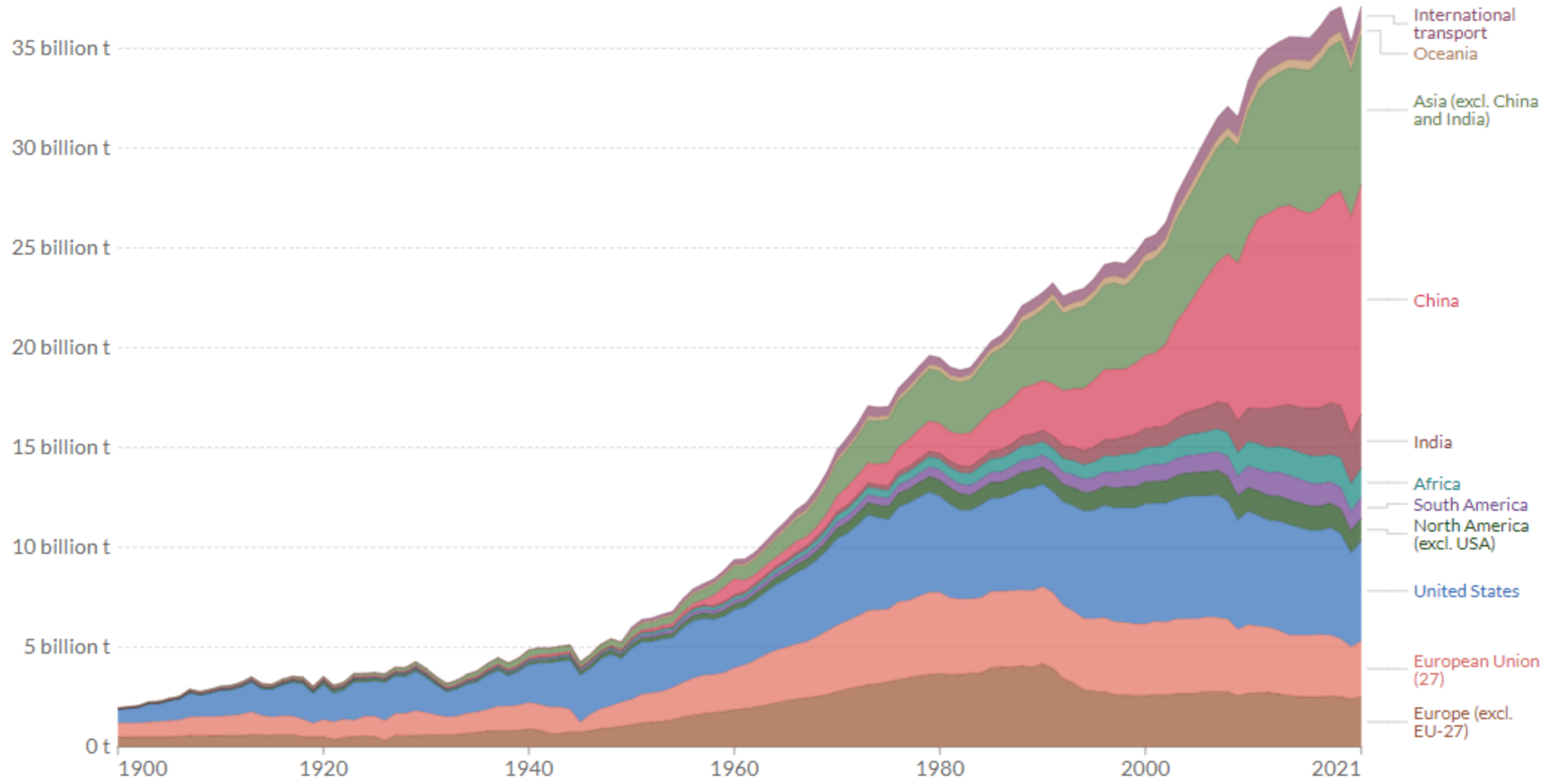
Laramie Research and Extension Center



Annual CO₂ emissions by world region

This measures fossil fuel and industry emissions. Land use change is not included.

All together Relative



Source: Global Carbon Budget (2022)

OurWorldInData.org/co2-and-greenhouse-gas-emissions • CC BY

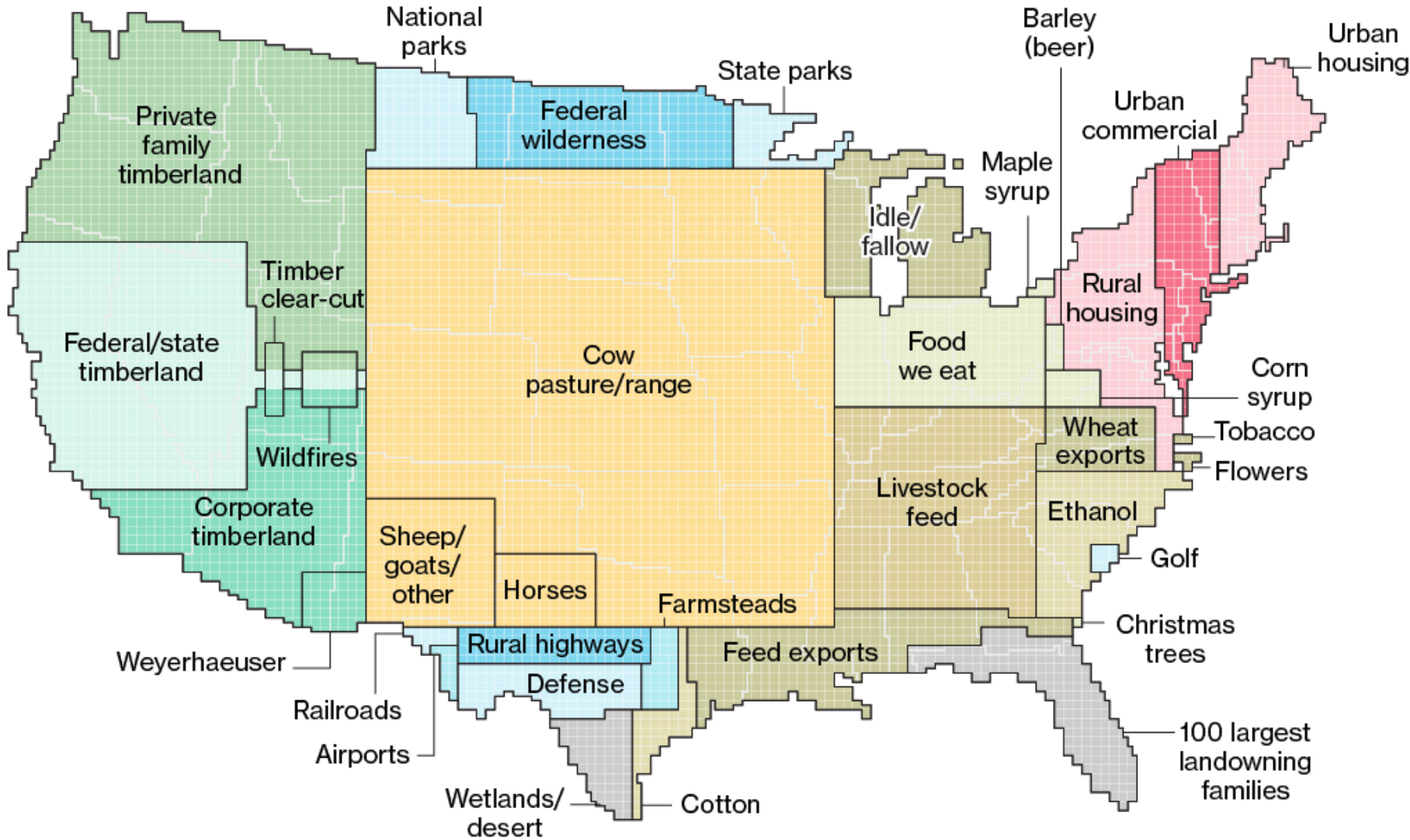
<https://ourworldindata.org/grapher/annual-co-emissions-by-region?time=1900..latest>

655M

acres of
pasture and
rangeland in
the U.S.

20%

of the world's
soil organic
carbon stock is
in pasture and
rangeland



Carbon: Challenge and Opportunity for Ag

1. Increased concern about carbon dioxide emissions
2. Opportunity to store and accumulate in range and pasture soils
3. May generate new income streams for ranches
4. Lack of information on effects of grazing and potential



The screenshot shows the top navigation bar of the AgriWeb website. It includes the AgriWeb logo (FARM JOURNAL AGriWEB), a search bar, and a small image of a magazine cover. Below the search bar is a horizontal menu with items: AgDay, AgriTalk, U.S. Farm Report, Pro Farmer, Markets Podcast, and Crop Comments. Underneath this menu are four main categories: News, Markets, Cash Grain Bids, and Weather. At the bottom of the screenshot, the title of an article is visible: "Ten Considerations Before Signing a Carbon Contract on Your Ranch".



CLIMATE
ACTION
RESERVE





Prior Work: Ranches

Soil organic carbon is an indicator of grazing capacity and may serve as a useful rangeland soil health indicator for producers

Ranch-scale soil health, forage quality, and cattle grazing capacity linkages in a high-elevation steppe

Timm Gergeni^a, John Derek Scasta^a, Kristie Maczko^{a,b}, and John Tanaka^a

158 T. GERGENI ET AL.

(a) Soil Organic Carbon (OC)

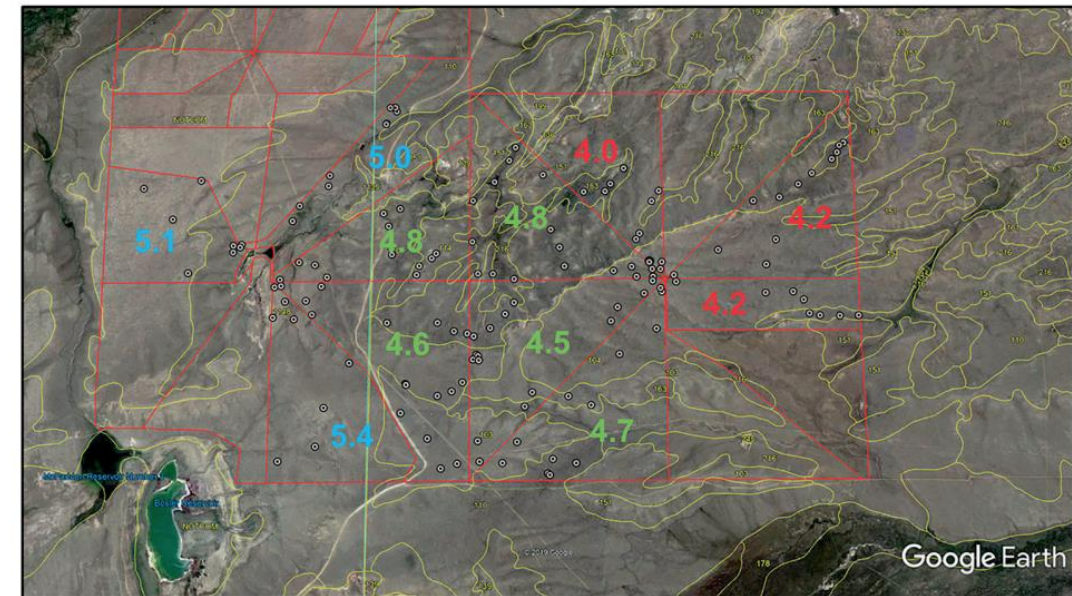
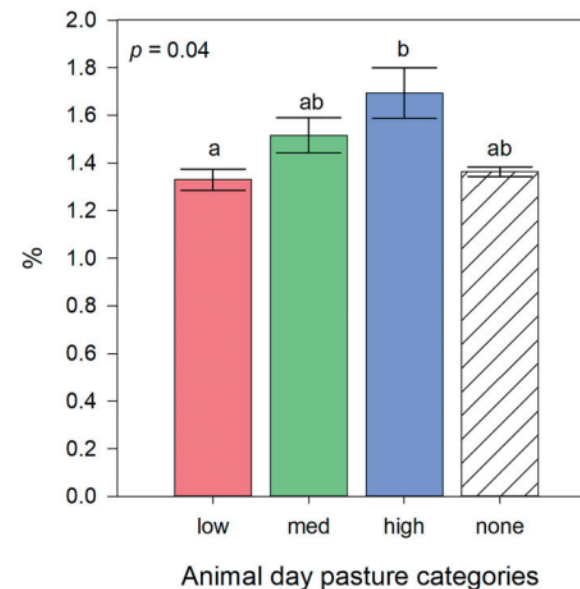


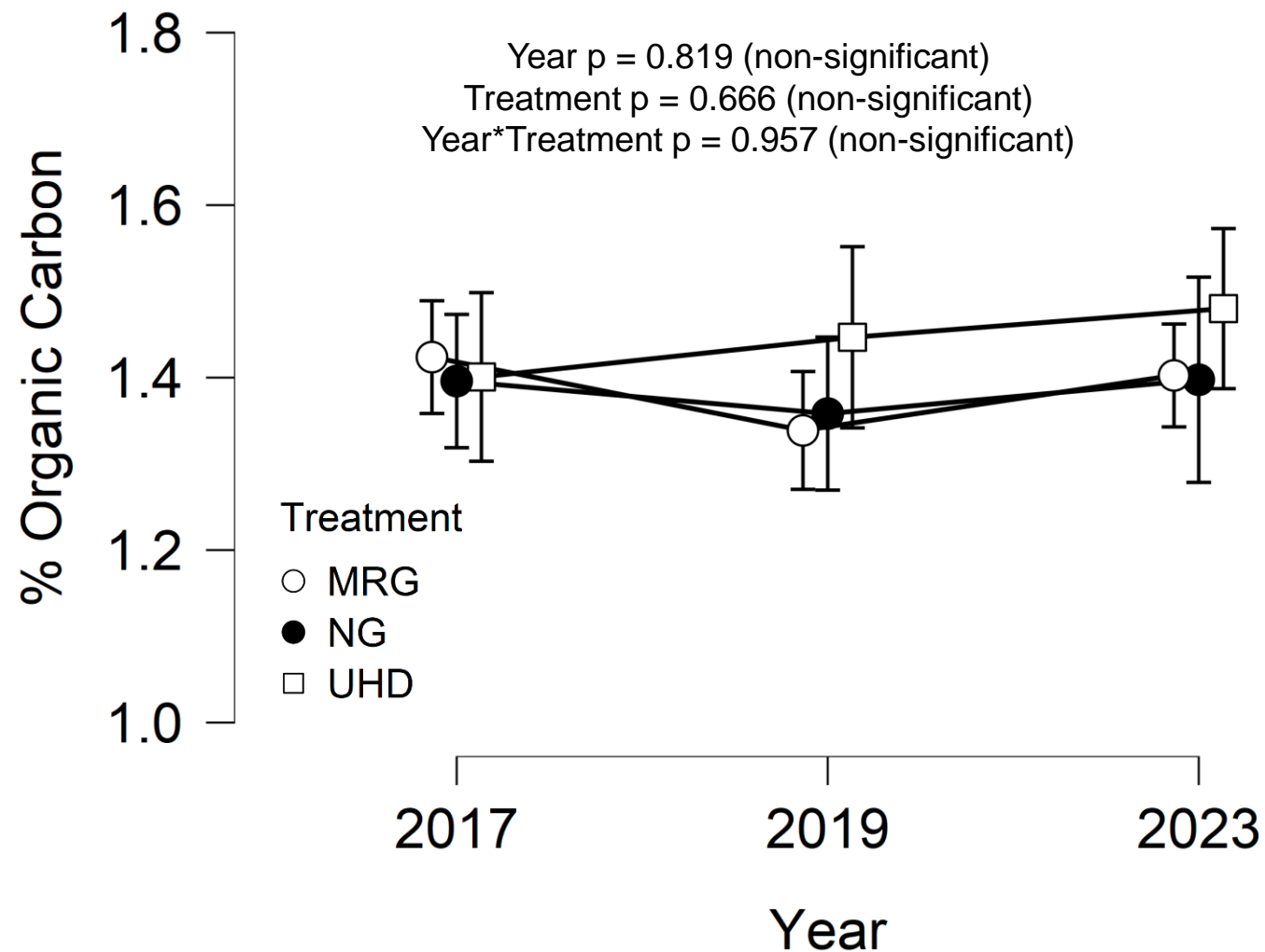
Figure 1. Soil sampling points at Sims Ranch in McFadden, Wyoming, USA overlain on pasture and U.S. federal Soil Survey Geographic Database (SSURGO) soil maps for evaluating the relationship between soil health, forage quality, and grazing capacity at the ranch-scale in a high elevation steppe. Red lines denote pasture boundaries, yellow lines denote mapped soils, and circle symbols denote a soil sampling location. Red, green, and blue numbers indicate animal days per hectare for low, medium, and high categories, respectively.

Prior work: SAREC

Soil organic carbon in eastern WY did not change relative to grazing from 2017-2023

Temporal variability drives soil chemical and biological dynamics more than grazing in a northern mixed-grass prairie

TIMM GERGENI¹, JOHN DEREK SCASTA^{1*}, KRISTIE MACZKO^{1,2}, STEVE PAISLEY³, JOHN TANAKA^{1,2}



Funding & Partnerships

Total Cost

More than
\$19M

 FOUNDATION FOR
FOOD & AGRICULTURE
RESEARCH
\$9,000,000

 NOBLE
RESEARCH
INSTITUTE
\$7,500,000

Additional funding Provided by

GREENACRES

 The
Jones Family
Foundation

BUTCHERBOX

 NOBLE
RESEARCH
INSTITUTE

MICHIGAN STATE
UNIVERSITY

 COLORADO STATE
UNIVERSITY

 | TEXAS A&M
UNIVERSITY.

 Oregon State
University

 UNIVERSITY
OF WYOMING
College of Agriculture
and Natural Resources

 USDA

 UNIVERSITY OF LEEDS

QUANTERRA

 Savory

 SNAPLANDS Snaplands

The Nature
Conservancy 
Protecting nature. Preserving life.™

 SNAPLANDS Snaplands

~60 Cooperating Ranches

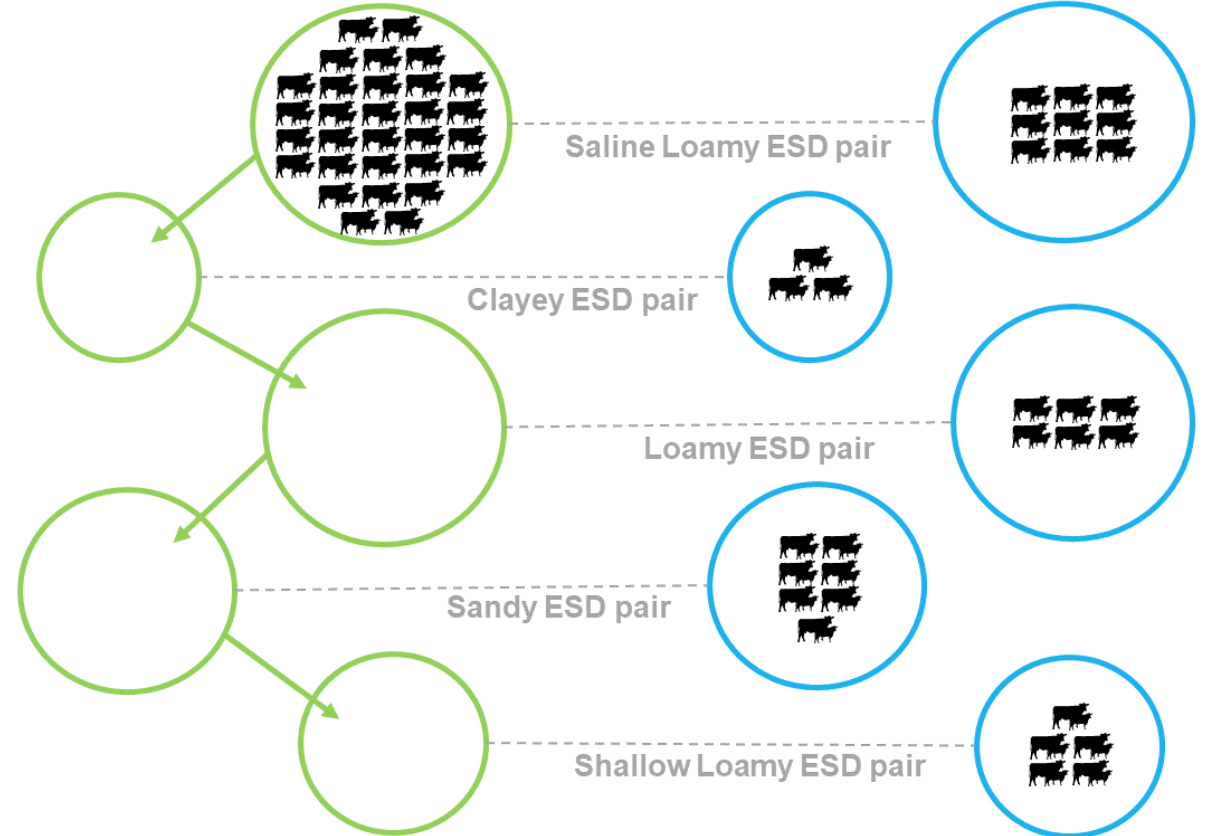
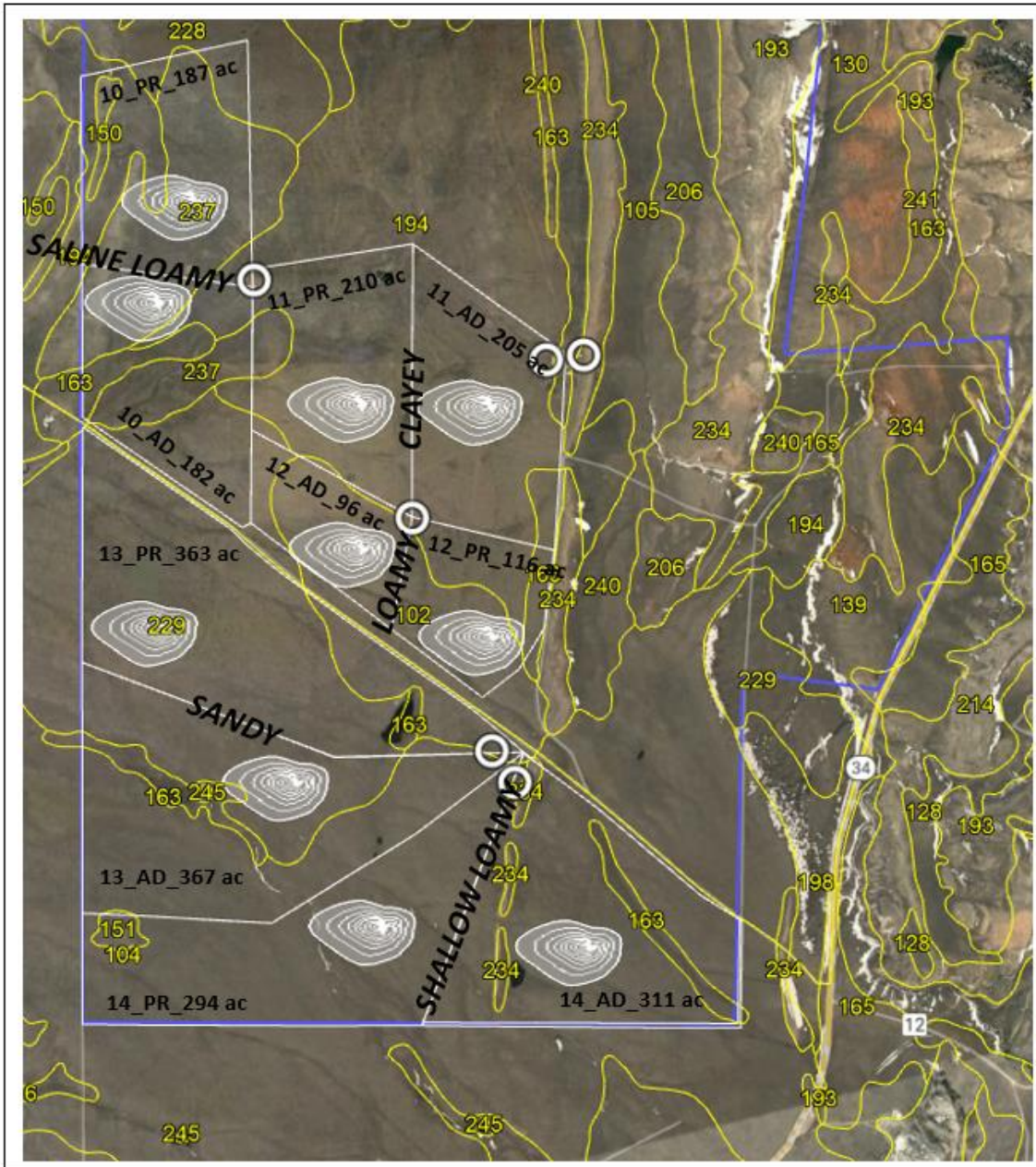
UW McGuire Ranch

- ~5,500 acre ranch between Laramie and Wheatland
- Sagebrush steppe on west slope of the Laramie Range
- Owned by UW for over 30 years
- New Infrastructure
 - ~12 miles of new fence to build 10 new study pastures (~2,300 acres)
 - New well drilled and a $\frac{3}{4}$ mile pipeline off existing well
 - 3 new livestock tanks
- Assessing how grazing management can influence soil carbon

Stratified by soils

Adaptive Management [AD]

Prescriptive Management [PR]



UW AES – McGuire Ranch
 FFAR-Noble 3 M's Pasture Infrastructure
 PR = Prescriptive Grazing; AD = Adaptive Grazing



Water Tank



CO₂ Tower Footprint



Soils

- Down to 1 meter



Water

- Soil and livestock water



MICHIGAN STATE
UNIVERSITY





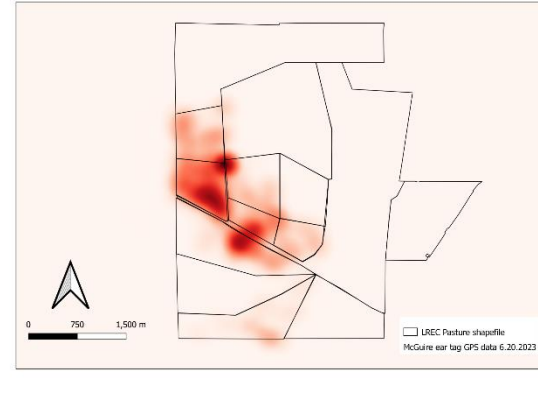
Vegetation

- Forage quantity & quality; Plant composition; Response to grazing



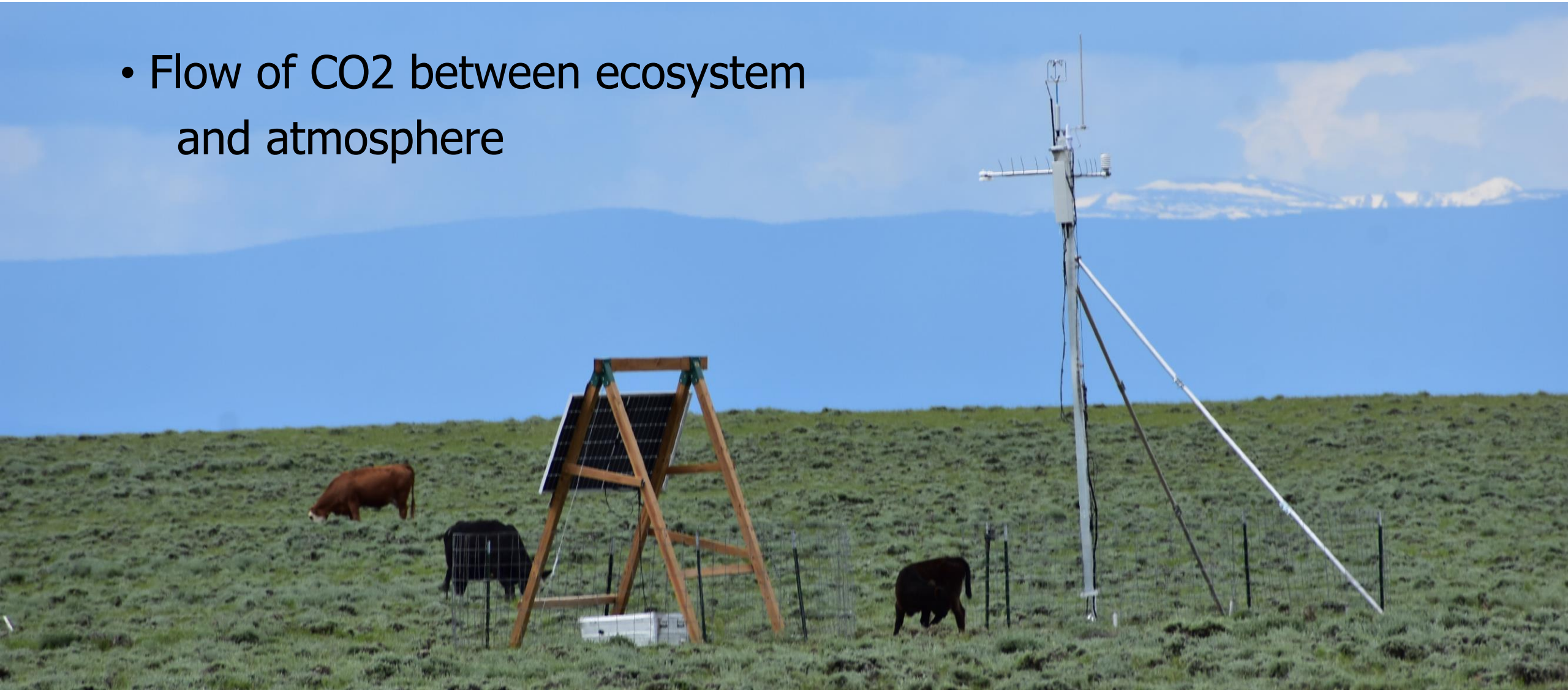
Animals

- Cattle and wildlife



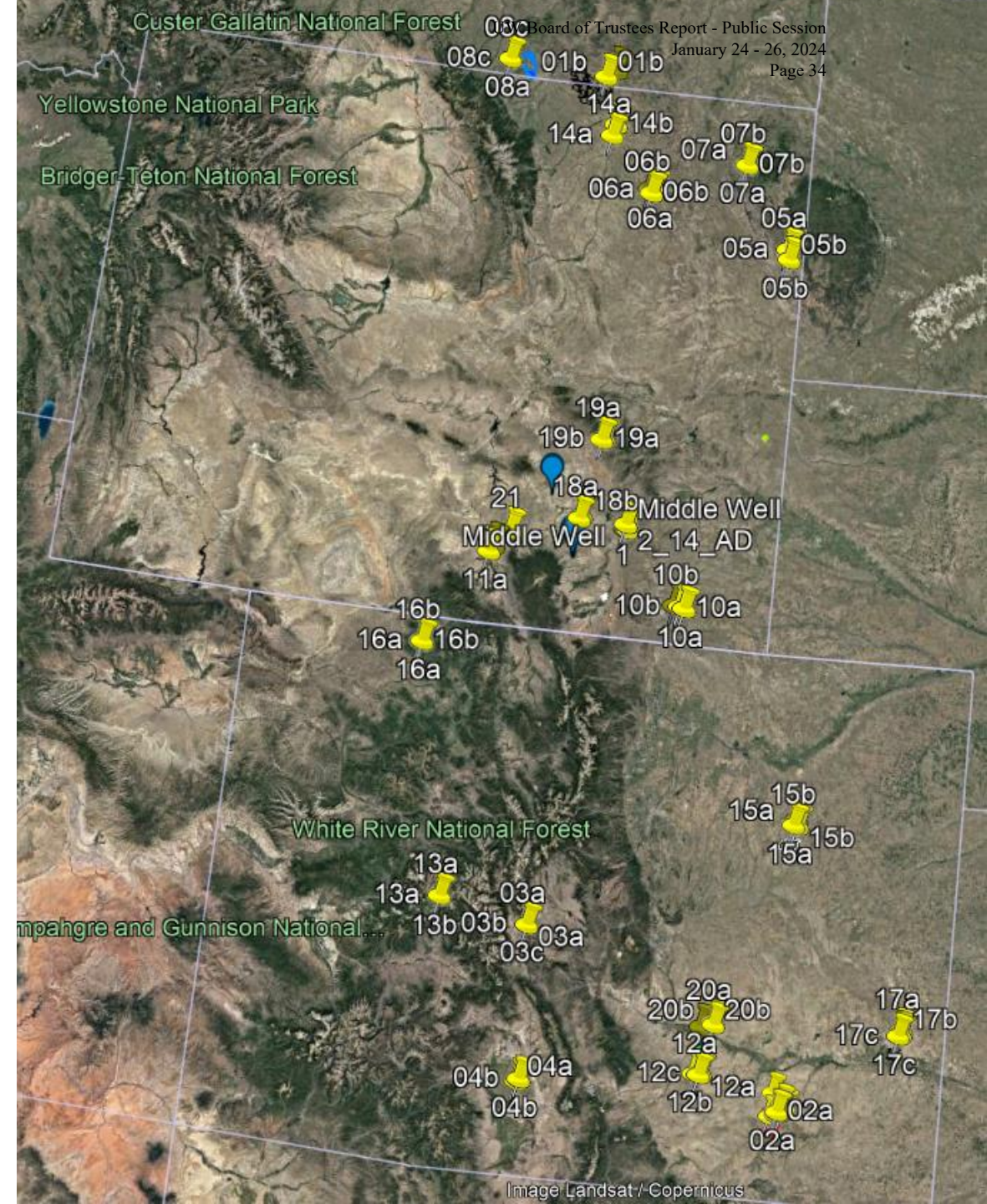
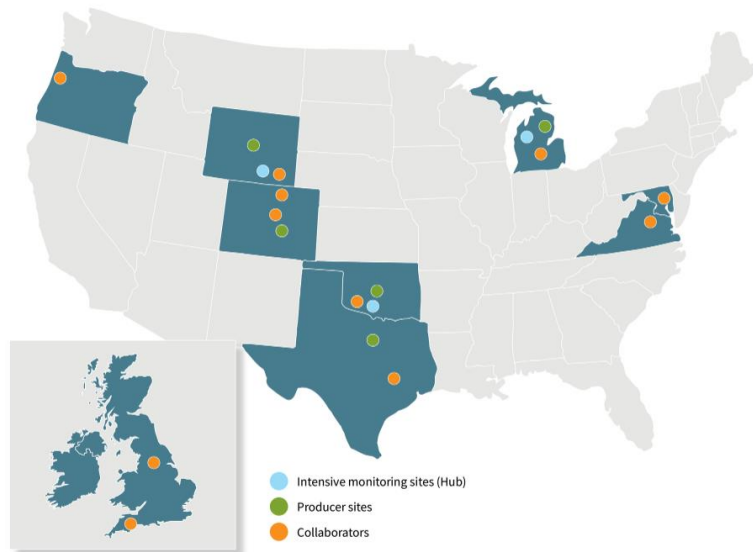
Carbon Dioxide

- Flow of CO₂ between ecosystem and atmosphere



Cooperating Ranches

- Started work with 20 ranches in WY and CO this summer



Cooperating Ranches

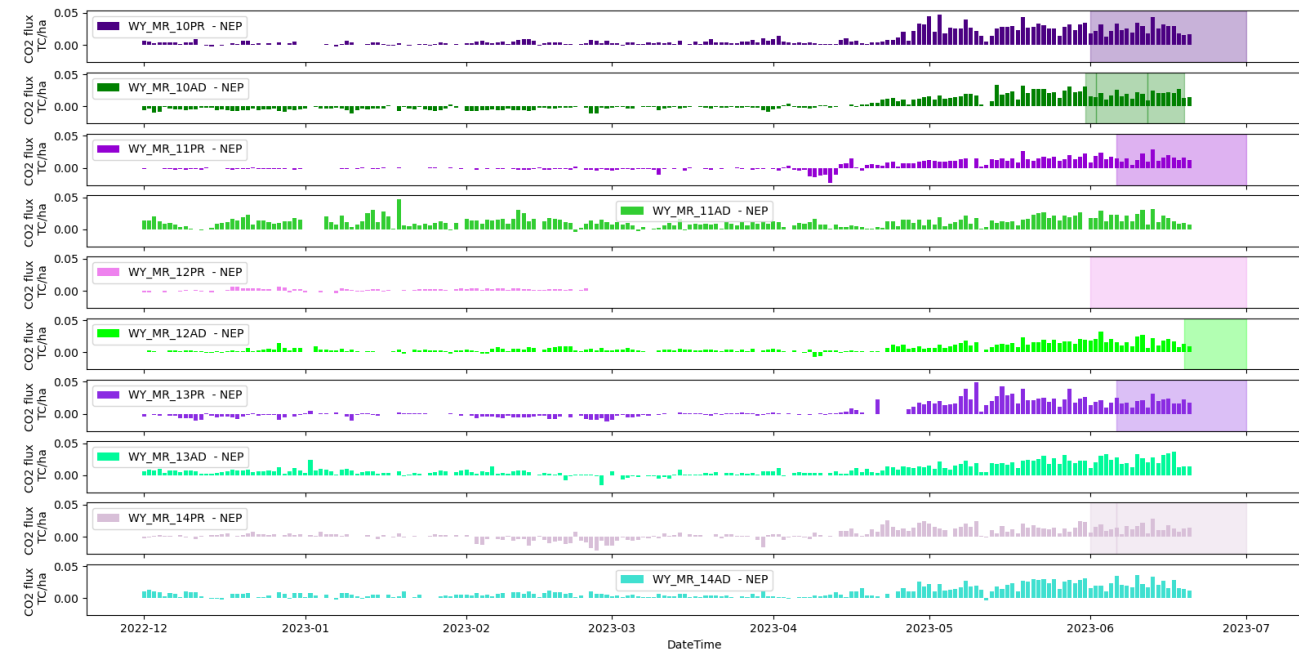
- Encompass environmental and managerial variation



Data Streams (in progress)

- Soil Carbon
- Evapotranspiration and Soil Moisture
- Net Radiation
- Net Ecosystem Productivity
 - ***Difference between gross primary productivity (GPP) and ecosystem respiration (ER), is the carbon sink basis***

- Grazing Management
- Vegetation productivity
- Economics
- Weather and Climate

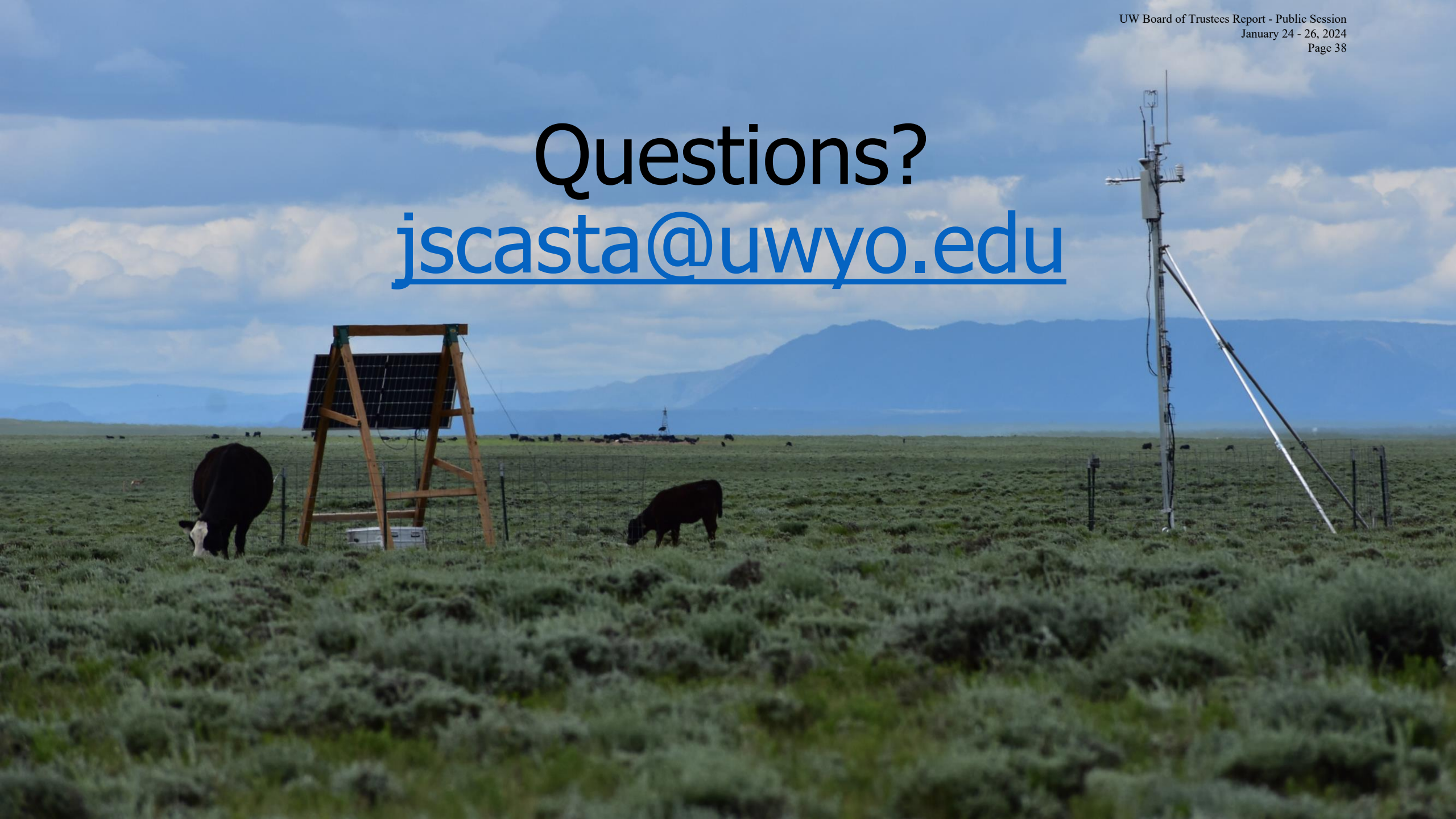




Teamwork



Questions?
jscasta@uwyo.edu



AGENDA ITEM TITLE: Trustees Education Initiative Update, Bostrom, Shim, Gull

Board of Trustees TEI Update (January 24-26, 2024): Supporting Documents

Appendix A includes financial reports on 1) MECP, 2) TEI, and 3) RIDE (GEER) initiatives as of December 31, 2023.

Appendix B includes a summary of the University of Wyoming Master Educator Competency Program (MECP) graduate credit options.

Appendix C includes a visual of the Wyoming Career and Technical Education (CTE) ecosystem.

Appendix D includes a flyer advertising CTE teaching in Wyoming.

Appendix E includes infographics that highlight enrollment data for the EDSE 4070: Trends in Career and Technical Education (CTE) in spring 2024.

Appendix A:

MECP

REVENUE	
BOARD OF TRUSTEES	\$1,230,000.00
ANTICIPATED FY25 BOT	\$770,000.00
TOTAL REVENUE	\$2,000,000.00
EXPENSES	
CONSULTING	\$1,360,000.00 Two Revolutions LLC
SALARIES	\$13,900.00
BENEFITS	\$4,360.20
TOTAL EXPENSE	\$1,378,260.20
NET BALANCE	\$621,739.80

TRUSTEES EDUCATION INITIATIVE

REVENUE		
DANIELS FUND	\$5,013,548.33	
TRUSTEES SPECIAL PROJECTS (MECP)	\$1,375,000.00	
GIFTS - REEVES WYOMING TEACHER MENTOR CORPS (WTMC) & UW DEPT EDUCATION FOR WTMC GRANTS (HAP)	\$210,788.42	
	\$1,237,494.00	US Dept. of Education for High Altitude Project
DF-TEI (DISCRETIONARY FUND)	\$12,565.83	
TOTAL REVENUE	\$7,849,396.58	
EXPENSES		
SALARIES	\$2,080,107.42	
BENEFITS	\$869,060.74	
GRADUATE STUDENT SUPPORT	\$152,427.78	
TUITION REMISSION	\$28,979.22	
TRAVEL	\$363,483.22	
CONSULTING	\$3,177,761.03	
EQUIPMENT	\$47,685.16	
COMMUNICATIONS	\$9,275.94	
SUPPLIES	\$194,624.59	
FOOD AND BEVERAGE	\$50,195.47	
NON-EMPLOYEE STIPENDS	\$50,136.71	
FACILITIES COSTS	\$144,461.20	
ADVERTISING & MARKETING	\$13,435.95	
TOTAL EXPENSE	\$7,181,634.43	
NET BALANCE	\$667,762.15	

**WDE/GOVERNOR'S OFFICE/RIDE
 GEER II 1005784A**

REVENUE	
WDE/GOVERNOR'S OFFICE	\$2,933,900.00
TOTAL REVENUE	\$2,933,900.00
EXPENSES	
TRAVEL	\$8,267.60
CONSULTING	\$2,382,500.00 Two Revolutions LLC & 9 School Districts
SUPPLIES	\$270.00
FOOD AND BEVERAGE	\$2,462.95
TOTAL EXPENSE	\$2,393,500.55
NET BALANCE	\$540,399.45

**Appendix B:
 MECP Graduate
 Credit Options**

Portrait of a Graduate Competency Area	Total Drops	Credit Value per Drop	EDCI 5070 toward C & I Masters
Model and Cultivate Learner-Centered Mindsets	3-4 Drops	1 Drop = one 5959 credit	Completion of a minimum of 3 drops + capstone = one EDCI 5070 credit
Design and Implement Learner-Centered Assessments	3-4 Drops	1 Drop = one 5959 credit	Completion of a minimum of 3 drops + capstone = one EDCI 5070 credit
Build Learner-Centered Relationships & Culture	3-4 Drops	1 Drop = one 5959 credit	Completion of a minimum of 3 drops + capstone = one EDCI 5070 credit
Design and Implement Learner-Centered Instruction	3-4 Drops	1 Drop = one 5959 credit	Completion of a minimum of 3 drops + capstone = one EDCI 5070 credit
Sustain and Cultivate Wellness	3-4 Drops	1 Drop = one 5959 credit	Completion of a minimum of 3 drops + capstone = one EDCI 5070 credit
Collaborate, Communicate & Create	3-4 Drops	1 Drop = one 5959 credit	Completion of a minimum of 3 drops + capstone = one EDCI 5070 credit
Championing Learner-Centered Systems and Communities	3-4 Drops	1 Drop = one 5959 credit	Completion of a minimum of 3 drops + capstone = one EDCI 5070 credit
Design & Support Learning Environment	3-4 Drops	1 Drop = one 5959 credit	Completion of a minimum of 3 drops + capstone = one EDCI 5070 credit

Summary and Information:

- **Total Drops and Credits:** There are 48 drops available in total, spread across 8 competency areas within the Portrait of a Graduate. Each drop is worth one 5959 credit.
- **EDCI 5070 Credits:** To earn one credit EDCI 5070, teachers need to complete a minimum of 3 drops in addition to the capstone. A **total** of 8 EDCI 5070 credits are available that are applicable toward the C & I master's program in the UW College of Education. Therefore, all drops are stackable towards the C & I master's program when combined with the completion of a capstone for each competency.
- **Use of Drops:** Each drop can only be used in one competency area for graduate credit. We can further discuss this.

Capstone Elements:

The Capstone project includes the demonstration of the following elements:

- **Teaching Context:** Consideration of the teaching context in relation to a given competency area.
- **Application to Practice:** Application of the competencies and drops to teaching practice.
- **Analysis of Student Work Sample/ Classroom Products:** Analysis of 2-3 student work samples or classroom products through the lens of the competencies.
- **Reflections:** Reflections on what has been learned, including next steps, research, and personal and professional growth.

Appendix C:

UNIVERSITY OF WYOMING | College of Education

ECOSYSTEM CAREER AND TECHNICAL EDUCATION (CTE)

The diagram illustrates the CTE ecosystem as a circular flow of five interconnected components:

- BUSINESS AND INDUSTRY** (Teal segment with a handshake icon)
- UW AND COMM. COLLEGE CTE TEACHER PREP** (Yellow segment with a graduation cap icon)
- K-12 CTE TEACHERS AND PROGRAMS** (Blue segment with a puzzle piece icon)
- CTE STUDENTS** (Brown segment with a graduation cap icon)
- COMMUNITY COLLEGE CTE PROGRAMS** (Maroon segment with a gear icon)

Arrows indicate a clockwise flow between these components, representing a continuous cycle of support and education.

Appendix D:



SIGN UP FOR:
EDSE 4070: Educational Trends in Career and Technical Education

- COURSE INFORMATION:**
- ☑ Course Delivery: Online Asynchronous (with support from local community colleges)
 - ☑ Students will have local support and opportunity to engage with industry leaders
 - ☑ Tuition assistance may be available (reach out to Christi Thompson for more information)
 - ☑ Jan 16th, 2024 is the first day of class

AM I ELIGIBLE?

- ☑ The course is open to non-degree and degree seeking students
- ☑ No prerequisites required

ARE YOU PASSIONATE ABOUT TEACHING YOUR SKILL?

WHY CHOOSE CTE TEACHING?

Those who "can" - teach career and technical education!

- ☑ Starting teachers are paid as well as many of the skilled tradespeople
- ☑ Average salary of a CTE teacher in WY is \$67,000 while the average salary of an electrician is \$62,000
- ☑ CTE teachers have a flexible calendar year, including summers off and great benefits
- ☑ CTE teaching is a high demand career with potential to grow over the next 8-10 years
- ☑ Rewarding career with direct impact on the state and local communities

PARTNERS:



CONTACT INFORMATION
 Christi Thompson • christi.thompson@uwyo.edu
 Rob Hill • robhill31@gmail.com

TO LEARN MORE: SCAN THE QR CODE



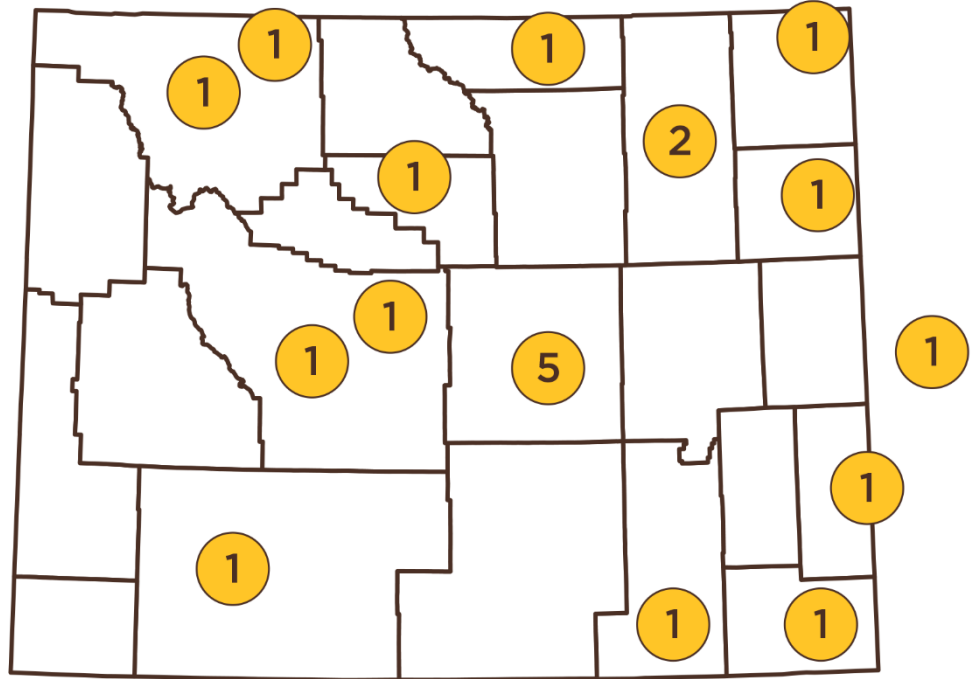

Appendix E :

UW CTE EDSE 4070

STUDENT DEMOGRAPHICS

Region/Town

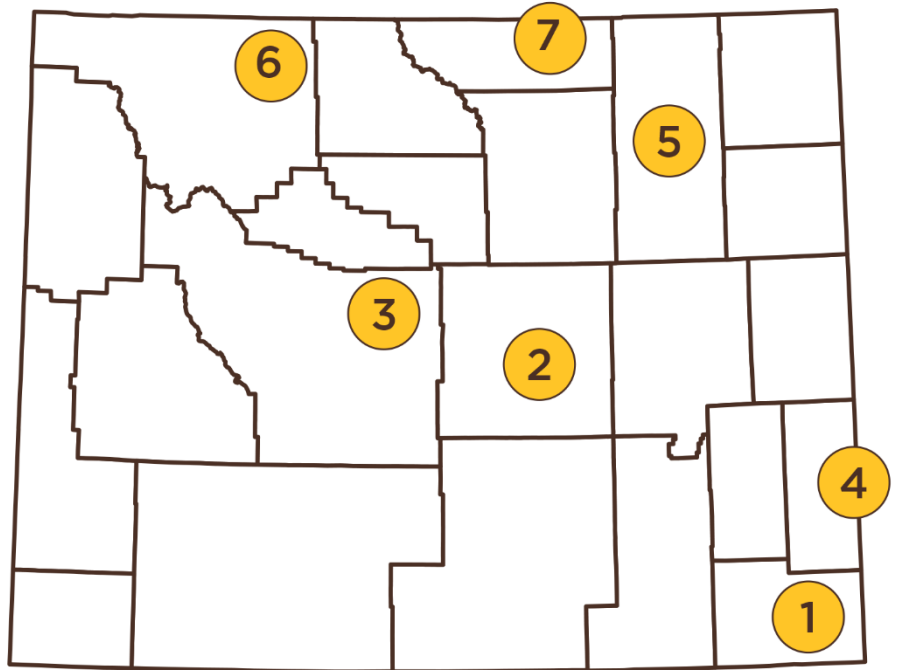
- Casper: 5 students
- Cheyenne: 1 student
- Cody: 1 student
- Gillette: 2 students
- Gordon, NE: 1 student
- Hulett: 1 student
- Laramie: 1 student
- Powell: 1 student
- Riverton: 1 student
- Rock Springs: 1 student
- Sheridan: 1 student
- Shoshoni: 1 student
- Torrington: 1 student
- Upton: 1 student
- Worland: 1 student



UW CTE EDSE 4070

COLLEGE MENTOR REPRESENTATION

- 1) 
LARAMIE COUNTY
COMMUNITY COLLEGE
Cheyenne | Laramie | Online
- 2) **Casper College**
- 3)  **Central Wyoming
College**
- 4) 
EASTERN WYOMING
COLLEGE
- 5) 
GilletteCollege
- 6) 
Northwest College
WYOMING
- 7) 
Sheridan College



UW CTE EDSE 4070

STUDENT BACKGROUNDS



CTE Teacher/High School (PIC)



Core Subject Teacher/High School



Community College Instructors



Community College Technical Students



UW CTE BAS



Military



Tradesman



Makerspace Director



Makerspace Employee



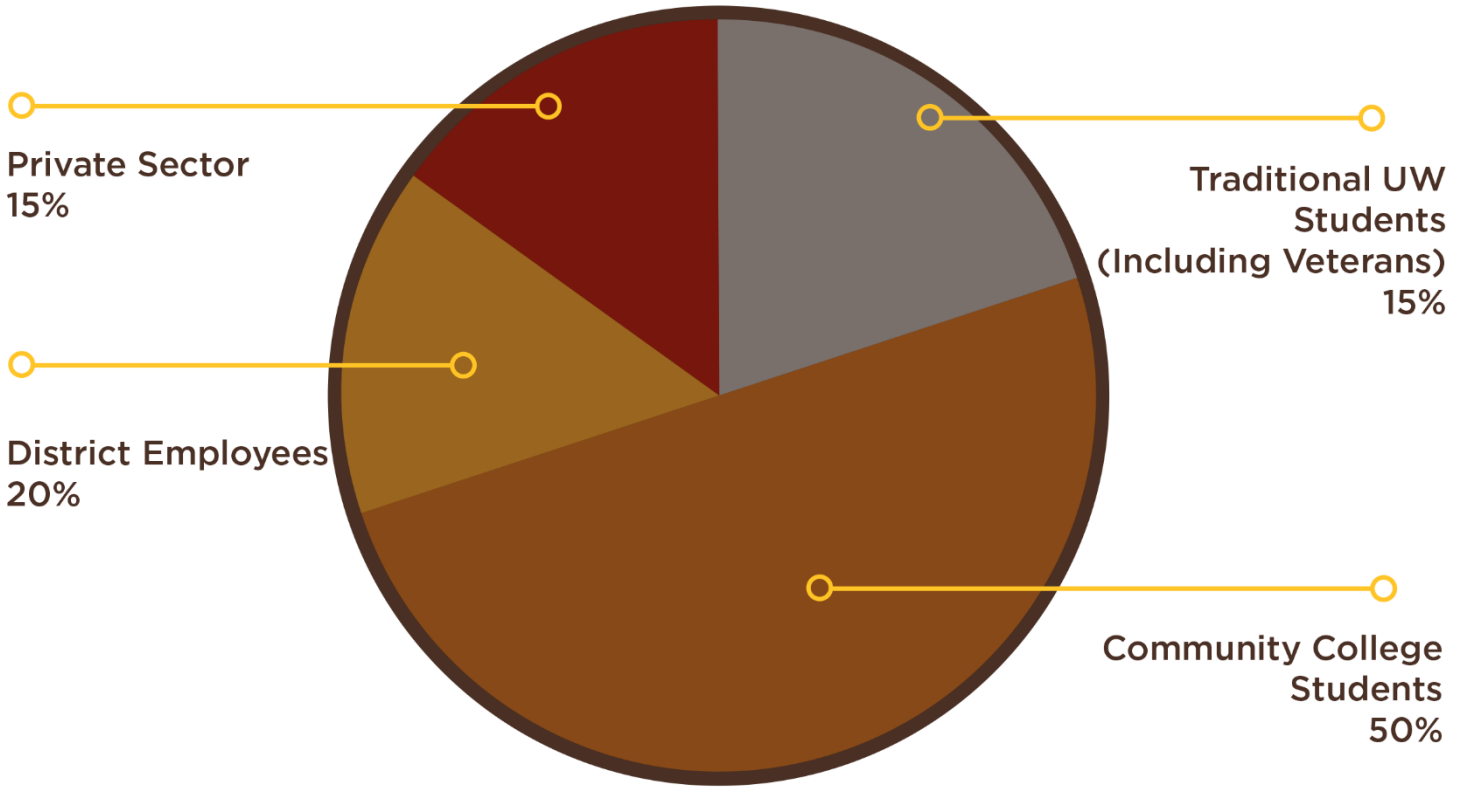
UW/Other Major



School District Administrator

UW CTE EDSE 4070

STUDENT AFFILIATION (20 STUDENTS)



AGENDA ITEM TITLE: Annual Report: Sabbaticals/Leave report, Carman/Benham Deal



UNIVERSITY
OF WYOMING

Office of
Academic Affairs

REPORT ON 2022-2023 SABBATICAL AND PROFESSIONAL LEAVES

OVERVIEW

Any tenured member of the University faculty may apply for sabbatical leave for the purpose of increasing the recipient's professional competence and usefulness to the University. Sabbatical leave time may be used for research, writing or study at a place of the recipient's choosing. University personnel holding tenured faculty rank whose duties are primarily administrative are also eligible for sabbatical leaves. A minimum of six years of academic service at the University must precede each period of sabbatical leave, although no right accrues automatically through lapse of time. Sabbatical leaves are not ordinarily available for the purpose of obtaining an advanced degree. A faculty member who fails to return to the University for at least one academic year immediately following a sabbatical leave is obligated to repay the amount of compensation received from the University during the period of his or her leave.

Pursuant to University Regulation 2-16 (Sabbatical and Professional Development Leave), this annual report details the sabbatical and professional development leaves approved for Academic Year (AY) 2022-2023.

A total of **22** faculty were approved by the Board of Trustees for sabbatical and professional development leaves. One (1) faculty cancelled their leave prior to the start date. A total of 22 sabbatical and professional development leaves were completed in the academic year.

Sixteen (16) faculty completed semester-long or half-year projects and six (6) faculty completed yearlong projects. Leaves for a semester or half-year for fiscal year employees are compensated at the annual rate for the limited period. Faculty on full year leaves are compensated at a rate equal to 60% of their annual salary; the remaining 40% of the annual salary is available to the College deans to redeploy for the purpose of ensuring that instructional and other department and college needs are met while the faculty member is on leave.

Below are statements provided by the faculty members that summarize their projects and the benefits and impacts of their work.

ABSTRACTS

College of Agriculture, Life Sciences and Natural Resources

Weinig, Cynthia

Department of Botany

Academic Year Sabbatical Leave

Professor Weinig's sabbatical research focused on plant-microbe interactions, including the possible importance of microbes in Controlled Environment Agriculture. Microbes affect diverse host plant phenotypes, and characterization and management of plant-associated microbiomes presents a striking opportunity to improve agricultural production. She is now in the process of re-submitting two NSF proposals (totaling \$7M if awarded), she has published two papers arising from sabbatical, and revised the entire course content of a joint UG/Graduate student class related to her sabbatical research.

Harmon, Jennifer

Department of Family and Consumer Sciences

Fall 2022 Sabbatical Leave

During Associate Professor Harman's sabbatical, she submitted 6 international conference presentations, including 2 presentations nominated for best paper awards, finished, progressed in, or submitted 6 journal articles, and was awarded 3 funded research project which took place during the spring of 2023. Additionally, during this time she developed a prototype and oversaw manufacture of the pilot products for Wyoming Wool Dryer Balls, served on the CHIPS Science Initiative Working Group and Freedom of Expression committees and submitted a Cotton in the Curriculum grant to support textile recycling efforts in the classroom. All 6 conference presentations were accepted, 1 of the nominated best papers in the social psychology of dress category won an award for the best topic paper, 2 of the journal articles have been accepted and published. Finally, the pilot Wyoming wool dryer balls are up for sale now by her Visual Merchandising class and she was awarded the Cotton in the Curriculum grant.

College of Agriculture, Life Sciences and Natural Resources Cont.

Sun, Qian-Quan

Department of Zoology and Physiology

Spring 2023 Sabbatical Leave

Professor Sun's sabbatical leave in Spring 2023 has yielded valuable outcomes, including the expansion of a robust professional network, acquisition of advanced research tools, and promising research collaborations, all of which promise to enhance the depth of sensory biology research and enrich the educational experiences of students. These outcomes position him to continue pushing the boundaries of sensory biology research, fostering innovative insights, and contributing to the advancement of knowledge in the field of sensory disorders. Furthermore, they have strengthened Dr. Sun's scientific vision as he leads the Wyoming Sensory Biology Center into its next phase, with immediate impact of additional \$1,870,834 in federal funding from NIGMS as the Principal Investigator for new research initiatives in fall 2023.

College of Arts & Sciences

Zibrak, Arielle

Department of English

Fall 2022 Sabbatical Leave

During Associate Professor Zibrak’s semester sabbatical in Fall 2022, she completed revisions to her manuscript *Writing Against Reform: Aesthetic Realism in the Progressive Era*, which is now forthcoming from the University of Massachusetts Press in Jan 2024 and a journal article, “At Sea on the Plains with James Beckwourth,” which is forthcoming in the journal *J19* this winter as well. In addition to these completed projects, she conducted archival research in Chicago, IL towards her fourth book project, *In the Image of Our Own Desires: Consumer Feminism and American Secular Thought*, a scholarly work geared towards a more general audience that explores the history of New Thought (a popular, female-led ideological movement in turn-of-the-century America). While in Laramie, she also worked towards her fifth book project, *The Ghost in the Mirror: An Historical Memoir*, a public-facing work of creative non-fiction about the nineteenth century settlement of the North American West and the Jewish Diaspora of the same period. Both of these latter projects are still in progress but significantly advanced as a result of the sabbatical, and research towards *The Ghost in the Mirror* has also been leveraged towards redevelopment of her ENGL 3500: American Literature class to give it a more Western focus.

Ladeira, Joy

Department of Modern and Classical Languages

Academic Year Sabbatical Leave

Professor Ladeira’s intended outcomes for research, publication and diffusion of scholarship have been met during the sabbatical period and are in place for further publication by peer reviewed University Presses. Her Hemingway research yielded three international and regional presentations, two published book reviews, one article accepted for a volume by University of Nevada Press, and one article submitted and undergoing revision for a proceedings volume. Her six-chapter book on European narratives is ready for continued editing and subsequent submission to a peer-reviewed University Press. Additional outcomes will be targeted at curriculum enhancement for current Spanish upper division and MA coursework, and the book will fit very well into the new “BA in European Languages, Literatures, and Film Studies” that the department proposed in the Notice of Intent that was approved by the Board of Trustees on Nov. 16, 2023.

College of Arts & Sciences (cont.)

Fadial, John

Department of Department of Music

Fall 2022 Sabbatical Leave

Professor Fadial's focus of his sabbatical was to bring to light to the neglected works of Morfydd Owen and Grace Williams, contained in the Cardiff Collection, by way of assessment, edition, and performance, ultimately introducing these works to the musical community at large, and integrating this new material into his teaching at the University of Wyoming. Relevant works were collected, and progress is ongoing with regard to the editing and preparation of performance parts of the Piano Trio by Cardiff's own Morfydd Owen, as well as several other works. The Helios trio, in which Dr. Fadial plays violin, is scheduled to perform Owen's work at Cardiff University as a celebration of our exchange program, in December of 2024. This offers an opportunity for UW to strengthen its bonds with Cardiff University, presenting this music for the first time since the death of the composer to students, faculty, and the musical community, internationally.

Vanderborgh, Beth

Department of Department of Music

Fall 2022 Sabbatical Leave

During Professor Vanderborgh's Fall 2022 sabbatical, she presented masterclasses and performances as visiting guest artist/faculty at the American College of Greece in Athens, Greece. She performed a concert with the Stanislas Sextet (France), featuring works for string sextet by Vincent d'Indy and Edwin Schulhoff, in the historic Salle Poirel in Nancy, France. In addition, Dr. Vanderborgh recorded a CD of these works with the Stanislas Sextet which was produced by Radio France with post-production by the French Forgotten Records label. The CD was released in October 2023 and has been distributed to European markets.

Hartung, Cynthia

Department of Psychology

Spring 2023 Sabbatical Leave

Professor Hartung received a U.S. Fulbright Scholar Research Award and completed her sabbatical in Trondheim, Norway. She is currently working on three manuscripts and has submitted a grant proposal with Drs. Wichstrøm and Steinsbekk from the Norwegian University of Science and Technology. Dr. Hartung is grateful for this cultural experience and the opportunity to study attention-deficit/hyperactivity disorder (ADHD) and sex/gender difference in psychopathology in a longitudinal birth cohort study.

College of Business

Minton, Elizabeth
Department of Management and Marketing
Spring 2023 Sabbatical Leave

During Associate Professor Minton sabbatical, she traveled to New Zealand to conduct interviews with bereaved families to observe effects of marketing on bereavement processes as well as to establish a study abroad course to New Zealand. Both objectives were accomplished. During this time, she had five papers accepted (one of which was from the interview data), three papers are now under initial or advanced rounds of review (two from the interview data), and one other paper based on the interview data will be sent out for review by the end of fall semester.

College of Education

Rush, Leslie
School of Teacher Education
Spring 2023 Sabbatical Leave

Professor Rush used her sabbatical to develop a detailed, usable, and transparent curriculum map for all of the undergraduate degree programs in the College of Education. In addition, Dr. Rush engaged with several service projects through the Wyoming School-University Partnership and the Wallop curriculum project, as well as scholarly research projects on disciplinary literacy in English/Language Arts and the perceptions of Wyoming teachers of their teaching environments and future plans, resulting in two peer-reviewed conference presentations and two journal manuscripts, one of which is under revision, and another accepted for publication in March of 2024.

College of Engineering and Physical Sciences

Geerts, Bart
Department of Atmospheric Science
Fall 2022 Sabbatical Leave

The key outcomes of Professor Geerts' sabbatical were as follows: stronger, sustainable ties between the University of Wyoming and NCAR, both in terms of airborne observations and high-performance computing. Dr. Geerts and his team published two papers, several other collaborative papers with NCAR scientists are in preparation, submitted one research proposal, and coordinated a successful workshop at NCAR. Additionally, he enhanced reputation of the University of Wyoming, including its Tier 1 Engineering program, both nationally and internationally, in the field of climate research, through a better prepared airborne field campaign based in Sweden, and through numerous collaborative peer-reviewed papers.

College of Engineering and Physical Sciences (cont.)

Hoberg, John
Department of Chemistry
Spring 2023 Sabbatical Leave

The purpose of Professor Hoberg's sabbatical was the development of a 2D material developed in his lab. Dr. Hoberg and his team successfully constructed and tested a material that increased water flow by 300% with 97% salt rejection in a desalination membrane, which is a major breakthrough in this field. Perhaps even more impressive is that they only need to add 6% of their material to the commercial system. Additionally, the seeds for a new rare earth elements extraction and separation process was developed, with four grants have/are being submitted and all focus on this REE technology.

Zhu, Jianting
Department of Civil and Architectural Engineering and Construction Management
Fall 2022 Sabbatical Leave

Professor Zhu's sabbatical was productive with 9 papers already published in top-notch journals in the fields, 5 manuscripts submitted to high-quality journals, and 6 manuscripts under preparations. He expects more manuscripts to be published in the future as he continues to work on the directions he started during the sabbatical. With the exploratory studies in the new interdisciplinary frontiers, he hopes there will be enough preliminary results to write a high-quality NSF proposal likely targeting the Boosting Research Ideas for Transformative and Equitable Advances in Engineering program.

Brant, Jonathan
Department of Civil and Architectural Engineering and Construction Management
Academic Year Sabbatical Leave

The intended outcomes from Dr. Brant's sabbatical were exceeded as it relates to the growth of his research program. He has established a research agreement with a commercial company whose goal is the development of new biofuels industries. Further, from his work he has established a new start-up company, Wyoming Water Innovations, that is in the process of commercializing desalination systems integrated with magnetic devices for process enhancements.

Peck, Ann
Dean's Office
Academic Year Sabbatical Leave

Senior Lecturer Peck will be presenting her findings of state of engineering education and recommendation of ES (Engineering Science) program to her academic unit in early January 2024, which is timely as CEPS is hiring two new instructional ES faculty. Implementation of Spatial Vis will occur in undergraduate statics spring classes with a study of its effectivity in improving visualization skills presented in a regional and/or national ASEE conference in the following year.

College of Engineering and Physical Sciences (cont.)

McInroy, John

Department of Electrical Engineering and Computer Science

Academic Year Sabbatical Leave

During Professor McInroy's sabbatical he was able to submit a journal paper in computer vision, which has already been accepted and published and an additional paper is expected to be completed early in the Spring 2024 semester. He has a proposal that has already been submitted. Lastly, a new course in computer vision is already being offered this semester which now utilizes Pytorch, a software required for many lucrative job offerings.

McElroy, Brandon

Department of Geology and Geophysics

Academic Year Sabbatical Leave

During Professor McElroy's sabbatical he developed a field-based, honors course that will be first offered in May 2024 in collaboration with the Education Abroad Office and the University of Galway. He also initiated collaboration with University of Barcelona and Texas Tech University to expand his previous research and teaching portfolio in the Ebro Basin of Spain, and he participated as expert witness in a major federal lawsuit regarding the engineering of the Lower Mississippi River. These activities have immediately raised the research profile of the University of Wyoming and enhanced the educational opportunities that UW's offer.

Stoellinger, Michael

Department of Mechanical Engineering

Spring 2023 Sabbatical Leave

Associate Professor Stoellinger's sabbatical activities have resulted in one external proposal (not funded), one internal proposal (EI funded at \$22,000), and a break-through reduced-cost turbulent combustion model (journal article to be submitted in January). Additionally, course material for a junior-level introduction to Neural Network to be used in ME 5446 (Turbulence), ME/ESE 4470 (Wind/Ocean Engineering), ME/ESE 3020 (System Dynamics) have been developed due to his sabbatical activities.

Haub School of Environment and Natural Resources

Stoellinger, Temple

Spring 2023 Sabbatical Leave

Associate Professor Stoellinger's core focus of her sabbatical involved an in-depth examination of European wildlife law and conservation regimes. She aimed to explore the differences between European and U.S. wildlife law regimes and extrapolate successful approaches to inform innovative legal and policy development. Key achievements include the development of two law review articles on this subject, the establishment of new research collaborations with international scholars and institutions, expanded leadership roles with several natural resource law and policy professional organizations, and the organization of the Greater Yellowstone Ecosystem International Wildlife Policy Workshop. This workshop was funded by the UW Center for Global Studies and the Research Office and resulted in the development of the theme and agenda for a 2025 conference dedicated to addressing transboundary conservation of wildlife in significant global landscapes and national parks, using the Greater Yellowstone Ecosystem as a central theme.

College of Law

Cover, Danielle

Spring 2023 Sabbatical Leave

During Professor Cover's sabbatical leave this spring, she was able to make three separate and distinct presentations worldwide during this time, one being a speaker at the Applied Legal Storytelling Conference. In addition, she now has two works-in-progress related to her research and has completed course content for a Law School Admissions Council prep class. Finally, the time afforded by the leave gave her the opportunity to provide service to the university through both guest lecturing and panel presentations.

Novogrodsky, Noah

Spring 2023 Sabbatical Leave

Professor Novogrodsky spent his Spring 2023 sabbatical working on two projects. The first was a study of the water law dispute between Chile and Bolivia before the International Court of Justice and its implications for transboundary watercourse claims. That work formed the basis of a special edition of the University of Wyoming Law Review and associated conference and will strengthen the study abroad opportunities for College of Law students at Universidad Adolfo Ibanez in Santiago, Chile. The second project was an article concerning the killing of journalist Jamal Khashoggi as an international crime, which will be submitted for publication in February 2024.

WyGISC

Hodza, Paddington

Spring 2023 Sabbatical Leave

Senior Research Scientist Paddington spent his sabbatical in Harare, Zimbabwe. Dr. Paddington Hodza collected a rich dataset of lived experiences, thoughts, and perspectives of 161 educators and 45 heads of households regarding the impacts of Covid-19 pandemic on access to education and livelihoods. This dataset is part of a geodatabase, which additionally includes spatiotemporal Covid-19 cases, time-series educational outcomes, and GPS locational information for primary and secondary schools, water sources, surveyed households, and public spaces. Spatial data analytics is ongoing to reveal the effects of Covid-19 pandemic on teaching, learning, and household livelihood security in Zimbabwe's urban areas.

AGENDA ITEM TITLE: Research and Economic Development Division Annual Report,
Chitnis

Research and Economic Development Division



FY2023 Annual Report

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UW’s knowledge enterprise and innovation capabilities have bright days ahead in FY2024 and beyond. The Research and Economic Development Division is achieving this by establishing new units, reimagining the existing ones, and strategically investing in topics relevant to Wyoming’s needs and growth.

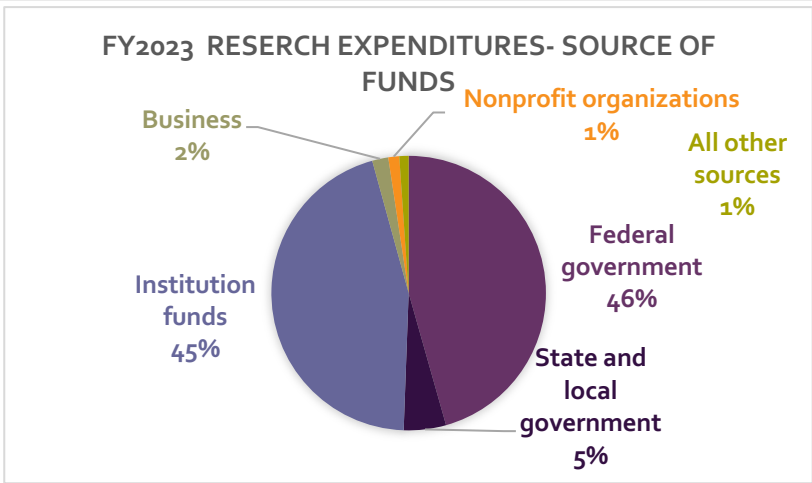
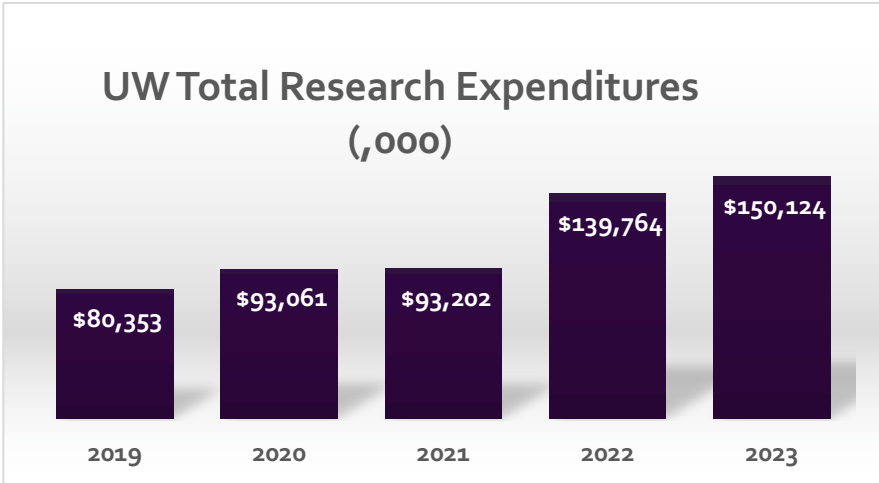
2. Summary of Accomplishments

The Research and Economic Development Division (REDD) of the University of Wyoming catalyzes expansion of UW’s knowledge enterprise (research, service, and innovation), provides experiential learning opportunities for UW students, and facilitates innovation and engagement to support economic development across Wyoming. To meet these goals, REDD units function as service organizations (e.g. preaward services, research compliance, research facilities, research computing resources, etc.), as integrators of multidisciplinary research (university-wide centers and institutes), as catalysts for entrepreneurship and innovation (e.g. Center for Entrepreneurship and Innovation, Technology Transfer Office, etc.), and as technical assistance providers to businesses across the state (e.g. Small Business Development Centers, Manufacturing Works.). Highlights of REDD’s activities, staffing efforts, and accomplishments are listed below.

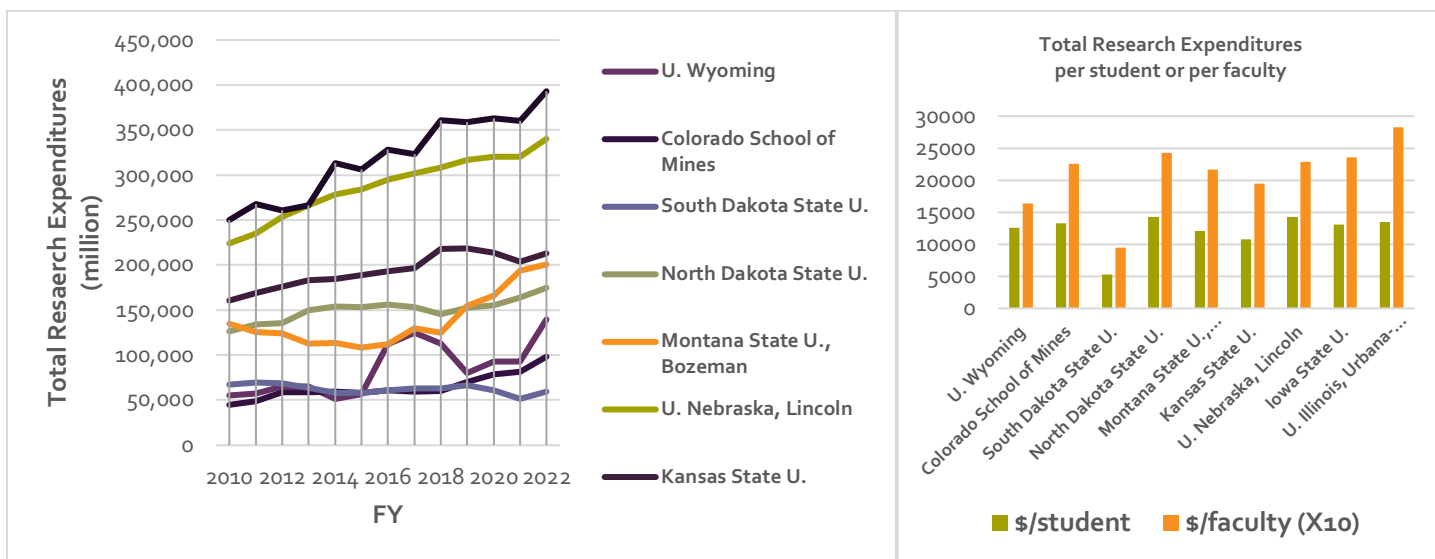
Goal 1: Increase the breadth, size, effectiveness, and impacts of UW’s knowledge enterprise.

In FY2023, REDD focused on building the infrastructure for supporting larger set of research activities, providing incentives for developing new projects, facilitating collaborations for research, and generating resources for the building blocks of Ideas to Impacts progression in a premier research university.

- Total research expenditures for UW continued to increase because of accurate reporting and increase research activities on the campus. In 2023, approximately 46% of these expenses were obtained through federal grants. To increase the research expenditures further, it will be necessary to increase the competitiveness of our faculty and diversity sources of funding.
- To increase opportunities for applying for grants, EPSCoR/IDeA office was established to allow efficient use of EPSCoR/IDeA opportunities for the entire campus and foster grants development activities. We will continue toward fully staff the office during FY2024. Additional four positions will be hired, making total to 6.3 positions.
- Including the staff positions under recruitment, the Preaward Services Office will be fully staffed (11 positions) by the end of 2024, providing efficient, and effective support for proposal submission and award acceptance, thereby increasing submission of grant applications to diverse sources. FY2024 has shown approximately 15-20% increase in proposal submission by UW faculty. Additional staff in the Preaward Services Office will help in support this increased demand.



- To initiate, establish and enhance engagement with businesses, agencies, private donors, and foundations, Office of Industry and Strategic Partnerships was established as a joint unit between Research and Economic Development Division and UW Foundation. It will be fully staffed in FY2024. The office has already received an EDA University Center program grant, aimed to advance access to and referrals between the various services and resources for entrepreneurship, small business, and broader industry, including such resources at UW. Prior to this grant, Wyoming was one of the small number of states without an EDA University Center. At the end of FY2024, we expect to staff the office with additional 3 staff members.
- Coordination and amplification of broader impacts of UW’s research activities is a priority for REDD. UW was selected for the 2023 cohort of the Program to Enhance Organizational Research Impact Capacity (ORIC), joining seven other distinguished universities. This initiative is led by the Center for Advancing Research Impact in Society (ARIS). Through this year-long training, UW is developing plans for coordinating and further developing its research impacts activities across the campus.
- REDD provided seed grants through a variety of campus units: Center for Global Studies (\$60,000 total), Wyoming Institute for Humanities Research (\$50,000), Research Committee of Faculty Senate (\$75,000), Board of Trustees Research Excellence Fund (\$120,000), Science Initiative (\$600,000), UW Institute at the AMK ranch (\$50,000) and Vice Provost for Global Engagement (\$100,000 for UW-Cardiff collaborations).
- REDD continued to decrease barriers, identify new opportunities, and streamline processes through campus-driven committees. These include process to request start-up funds from REDD (DAPP being developed), process to streamline business contracts and agreements, operations of core facilities (report being prepared), CHIPS and Science Act Committee report and SI2025 vision report (<https://www.uwyo.edu/research/statistics/index.html>). One tangible outcome is increased support for start-up funds in social and behavioral sciences, economics, and humanities.
- As a result of dedication of UW’s innovative faculty and REDD initiatives, UW continues to increase its standing as a premier research university. In FY2022 (the latest year for which NSF rankings are available), UW climbed up to the 152nd place (from 170th place in FY2021) among 637 research universities ranked based on total research expenditures. When only non-medical research expenditures are considered, UW is ranked at 126. Among public universities, UW is ranked at 108.



When one considers total research expenditures at UW and its peer and aspirational universities, UW shows similar expenditures per student, but lower expenditures per faculty member. Strategic investments in research development

assistance to applicants, cultural change in colleges and schools, and facilitating diversification of revenues through Industry and Strategic Partnerships Office will help increase the research expenditures per faculty.

Goal 2. Foster economic development by building a vibrant innovation support and culture at UW and by providing technical assistance across Wyoming.

- A functional and proactive technology transfer office is essential for any research university to increase IP portfolio and revenue generation through commercialization of its IP. During Fy2023, UW’s Technology Transfer Office reduced in its size (departure of director and a staff member). To quickly obtain needed expertise, UW contracted technology transfer services. The contracted interim director has cleared the backlog and implemented processes. UW recently received a \$6 million grant from NSF’s Accelerating Research Translation (ART) program; this is a new program established because of the CHIPS and Science Act of 2022.
- The CHIPS and Science Act of 2022 created new opportunities for spurring geographically distributed innovation hubs. To prepare for these new programs, UW formed a faculty committee that made recommendations for reducing barriers and providing incentives for UW faculty to apply for these opportunities. UW has strategically partnered with institutions in other states for applying for these programs.
 - UW is coPI in the NSF Innovation Engine on Climate Resiliency that covers CO and WY (total funding \$160 million over 10 years). This project had a successful NSF site visit and the awardees will be announced soon.
 - UW is coPI on two Innovation Engine planning grants- one on precision forestry with University of Montana and the other in quantum materials with Montana State University.
 - UW is leading Wyoming’s participation in the EDA Tech Hub application in the nuclear energy industry, with Idaho being the lead/partner state. Various WY agencies and institutions, along with Idaho National Laboratory, ID agencies and institutions of higher education, are coming together on this application. In addition, UW is participating in another Tech Hub application on Quantum Computing (led by Elevate Quantum, a regional industrial organization for quantum industry). Both Technology Hubs were designated by EDA in the first phase of this competition, receiving planning grant funding.

Staffing Priorities for 2024

Priority 1: Fully staff the following offices

Unit	Current FTEs	FTEs when fully staffed
Preaward Services Office	8	11
Technology Transfer Office	2	6.5
EPSCoR/IDeA Office	1.3	6.3 (4 positions jointly with colleges)
Industry and Strategic Partnerships Office (UW and UW Foundation Positions)	3.7	7.2 (one position jointly with TTO)

Priority 2: Recruit leadership positions

- Director, Center for Entrepreneurship and Innovation (being recruited)
- Director, UW Science Institute (being recruited)
- Director, UW Institute at the AMK Ranch
- AVP-Research
- AVP-Economic Development

3. REDD Highlights: Expanding Knowledge Enterprise

<p style="text-align: center; font-size: 2em;">3</p>	<p>Enhance Participation in New Opportunities</p> <p>The CHIPs and Science Act Working Group to analyze authorization and appropriations acts and identify ways to help UW faculty and students to apply for the opportunities created by these acts. Activities have been implemented or initiated to address all three recommendations.</p>
<p>Increased Submissions</p> <p>Strategic help for proposal preparation, additional staff for pre-award services, and increased number of seed grants in FY2023 resulting in increased proposal submissions in the first four months of FY2024.</p>	<p style="text-align: center; font-size: 1.5em;">>20%</p>
<p style="text-align: center; font-size: 1.5em;">\$120.4 million</p>	<p>Sponsored Funds Received</p> <p>Average annual funds for the research, education, or service projects received during FY19-22 were \$120 million (includes COVID-related projects in FY21)</p>
<p>Sponsored Project Expenditures</p> <p>In FY2023, UW registered record expenditures on sponsored projects for research, education, or service. Average annual expenditures during FY19-22 were \$98 million.</p>	<p style="text-align: center; font-size: 1.5em;">\$115.2 million</p>
<p style="text-align: center; font-size: 1.5em;">\$150.124 million</p>	<p>Total Research Expenditures</p> <p>Last five years, UW total expenditures have been increasing. In FY2023, it exceeded \$150 million for the first time. Total expenditures include sponsored research expenditures as well as institutional investments in research.</p>

4. REDD Highlights: Enhancing State-wide Engagement

2262 K-12 students	<p>K-12 outreach</p> <p>SI Road show brought active STEM learning to 2262 K-12 students through 19 events across the state.</p>
<p>Active Learning</p> <p>44 LAMP-trained educators at UW impacted 3,653 students in 118 active learning classes.</p>	3653 UW students
52	<p>Wyoming Research Scholars</p> <p>Of 52 undergraduate students conducting research as Wyoming Research Scholars, 33 are from Wyoming. Others come from 8 different states.</p>
<p>New Businesses Started</p> <p>SBDC staff served 1,160 clients, receiving attribution from 54 clients starting new businesses, 39 equity infusion transactions totaling more than \$4.6 million, reporting more than \$135 million in annual sales with \$1.4 million in sales revenue growth, and supporting 1,857 jobs.</p>	54
\$2.1 million	<p>SBIR/STTR success</p> <p>Wyoming SBIR/STTR Initiative helped Wyoming small businesses receive more than \$2.1 million in Phase I/II awards from various federal agencies.</p>

5. REDD Highlights: Fostering Innovation

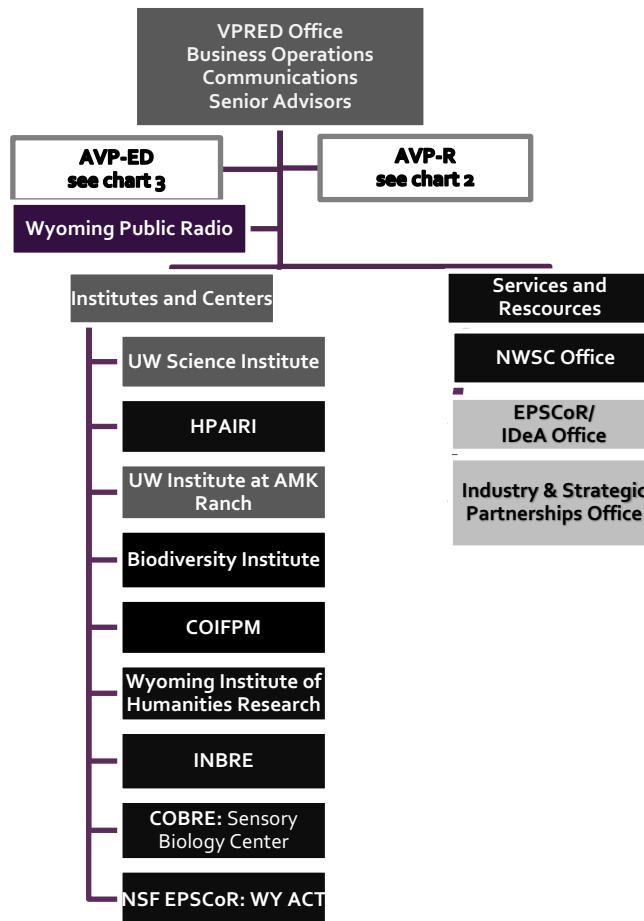
\$6 million	<p>Accelerating Research Translation</p> <p>UW is one of 18 universities to receive a grant from NSF to build infrastructure and change culture for translating research to commercial and societal use.</p>
<p>Invention Disclosures</p> <p>Compared to FY22 (27 disclosures), FY23 showed a major increase.</p>	40
17	<p>Patents Granted</p> <p>UW is one of the top 100 universities in number of patents issued.</p>
<p>Industry Research Agreements</p> <p>Over 770 contacts were made with industry. Many discussions are still in progress. Bolstering of the Industry and Strategic Partnerships Office will increase the number of research agreements in the future.</p>	5
\$28.3 million	<p>Industry and Foundation Support</p> <p>Funds from Foundations and Industry either as gifts or grants to UW.</p>

6. REDD Organizational Structure and Staffing

One of the major aims in FY2023 was to fully staff key offices that were understaffed for several years and thus could not provide the services at the expected levels. The current organizational structure of REDD is provided below. All charts use the following coloring convention for staffing status in those units.

Fully Staffed	Staffed close to the level projected in the FY2024 budget request
Mostly Staffed	Most positions filled; a few key positions will be recruited by the end of FY2024
In progress	Unit started or redesigned in FY2024; staff is being recruited

Chart 1. VPRED Organizational Structure

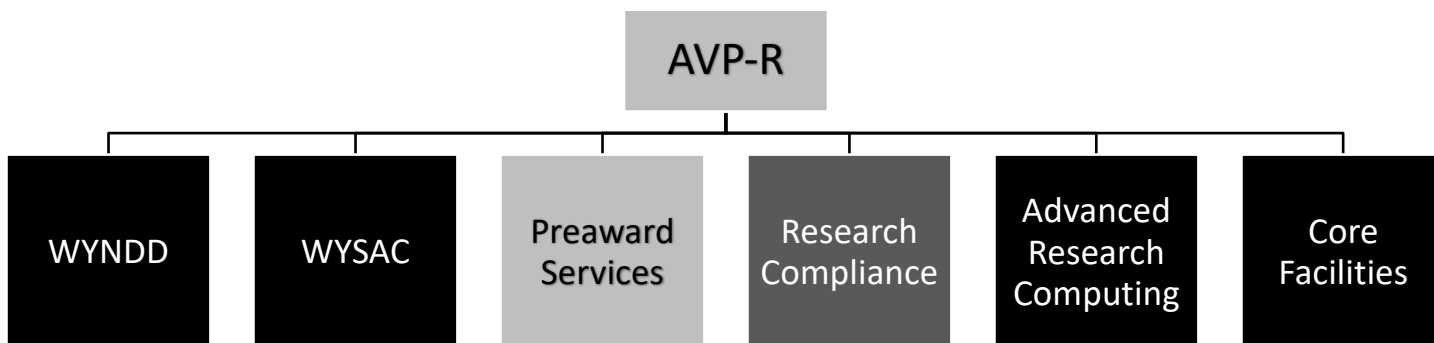


Notes:

- VPRED Office:
 - In addition to one business operation position, two key positions that need to be filled are AVP for Research and AVP for Economic Development. These positions will be realigned in their responsibilities and national search will be launched in spring 2024.
 - While the two AVP positions are being recruited, two faculty members with administrative assignments undertake special projects: AVP for Special Research Initiatives (Dr. Bryant Smalley) and Senior Advisor to VPRED (Dr. Haibo Zhang).

- UW Science Institute and UW Institute at AMK Ranch will seek Directors through campus-wide searches.
- Additional information about two new units in REDD, Industry and Strategic Partnerships Office and EPSCoR/IDeA Office, is provided later.

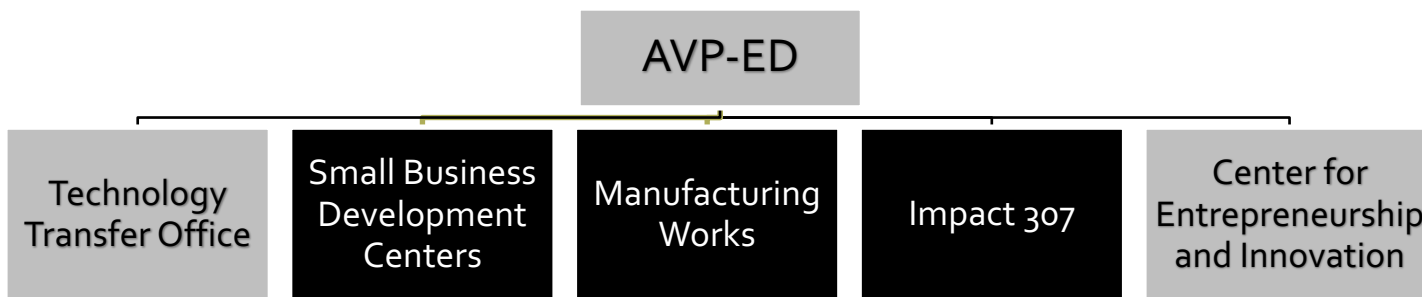
Chart 2. AVP-Research Organizational Structure



Notes:

- AVP for Research, Dr. Bryant Smalley, focused on his faculty responsibilities and thus reduced his role in REDD. Currently the AVP-Research position is vacant; realignment of some of the units between research and economic development subdivisions is being examined. National search to fill this position will begin in spring 2024.
- Research Compliance: With an additional animal research facility becoming operational and to allow proactive training and oversight of animal and human research, an additional position will be recruited in spring 2024. In addition, the Director for COI and Export Control will report to the Senior Director for Research Compliance from Spring 2024.
- See information about status of each position in Office of Preaward Services later.

Chart 2. AVP-Economic Development Organizational Structure



Notes:

- AVP for Economic Development, Mr. Steve Farkas, retired. Since both AVP positions are currently unoccupied, realignment of some of the units between research and economic development subdivisions is being examined. National search to fill in this position will begin in spring 2024.
- Two units, Technology Transfer Office and Center for Entrepreneurship and Innovation are being reimagined and restaffed.

7. VPRED Units

VP for Research and Economic Development oversees the multidisciplinary institutes and centers as well as creation of new research teams and development of new applications. As such, seed grants for faculty driven, strategically important projects are a priority for VPRED.

Institutes and Centers

UW Science Institute

Based on the report of the SI2025 committee (posted at <https://www.uwyo.edu/research/statistics/index.html>), REDD established the Science Institute to manage the UW Top Tier Science Initiative and its programs. The Science Institute catalyzes convergence of physical, social, and biological sciences, engineering, humanities, and computing to address Wyoming's needs through transformative research, engagement, and experiential learning. It is expected that the UW Science Institute will be fully operational by 2025. The Science Initiative annual report was presented to the Board of Trustees in their November meeting; the revised report is posted at <https://www.uwyo.edu/research/statistics/index.html>.

High Plains American Indian Research Institute (HPAIRI)

HPAIRI is an entity that tribes and scholars can access and utilize both tribally driven projects and UW-conducted research that pertains to Native American people, their lands, and resources.

- HPAIRI has continued to play a critical role in many institutional grants to UW, including WY-ACT, the NSF EPSCoR Track 1 Project, and a New Beginning for Tribal Students project.
- In FY2023, HPAIRI organized a discussion on indigenous traditional ecological knowledge (iTEK) and funding opportunities for research using iTEK.
- HPAIRI contributed to the CO-WY Innovation Engine application as well as the successful NSF site visit. HPAIRI will have an important role in organizing Native American outreach in the Innovation Engine.

INBRE

The Wyoming IDeA Networks for Biomedical Excellence (INBRE) Program is funded by the National Institutes for Health. The INBRE program funds statewide networks of higher education and research institutions in each IDeA-state and Puerto Rico to build biomedical research capacity through support for faculty research and mentoring, student participation in research, and research infrastructure enhancement at network institutions. The Wyoming INBRE works collaboratively with all community colleges in Wyoming to advance opportunities for biomedical research experiences in all institutions of higher education in Wyoming. During FY2023, INBRE provided research experiences for dozens of undergraduate students at UW and WY Community Colleges.

COBRE

Wyoming Sensory Biology Center (SBC) is a phase II (P2o) Center of Biomedical Research Excellence program (COBRE) funded by the National Institute of General Medical Sciences (NIGMS) of the National Institutes of Health (NIH). The primary mission of the SBC is to foster and conduct high-quality scientific research that advances the understanding of our sensory systems and disorders related to them.

Wyoming NSF EPSCoR

The NSF EPSCoR Track 1 grant and associated programs have helped move Wyoming along the path of research and excellence by supporting the State's research endeavors. The current \$20 million project, the Wyoming Anticipating Climate Transitions, or WY-ACT, addresses the ecological and socioeconomic consequences of changes in water resources. The project will substantially augment capabilities for refining and applying local- and regional-scale models collaboratively developed with stakeholders that address scenarios related to abrupt shifts in water availability. This co-production of knowledge is a unique component of this effort. A significant part of this research is performed at the AMK ranch and adjacent areas.

UW Institute at the AMK Ranch

The University of Wyoming Institute at the AMK Ranch is a cooperative effort between the University of Wyoming and the National Park Service. Headquartered on the University of Wyoming campus in Laramie, the UW Institute at the AMK Ranch promotes multidisciplinary research in the Yellowstone-Teton area of Rocky Mountains. The Institute operates a field research station at the AMK Ranch in Grand Teton National Park, open from mid-May through mid-October. Key activities and accomplishments of the AMK ranch are listed below:

- First time since the pandemic, the field station remained open for full season (June 15 through September 30), hosting researchers, courses, and conferences, including over 1200 user-nights by the UW community and an additional 700+ user-nights by scholars from around the country and world.
- The Harlow summer seminar series included 7 events with 530 in-person attendees and many more watching seminars after they were posted online. Seminars included talks by UW faculty and their collaborators on cutthroat trout, river otters, grizzly bears, ungulate migration, and science education in the parks.
- The station hosted numerous conferences and workshops, including the UW-Cardiff colloquium, a WORTH initiative State-Sports Program, an international law and wildlife policy conference led by a UW law professor, as well as events critical for our park and other regional partners, which included hosting the Rocky Mountain Cooperative Ecosystem Studies Unit annual meeting and the planning meeting for the American Society of Mammalogists. These and related events help establish the station as a hub for research in the region.
- In partnership with Grand Teton National Park, the AMK Institute awarded 11 small grants to seed new research in the region on diverse topics including sagebrush restoration, amphibian and sharp-tailed grouse populations, beavers, native bumble bees, and hydrothermal springs.
- The UW Board of Trustees Research Excellence Fund provided seed grant funding for a new interdisciplinary project studying ecological networks and ecosystem resilience in the GYE. This work, based at the AMK Ranch will generate preliminary data for extramural funding to support the work long-term.

Center of Innovation for Flow Through Porous Media (COIFPM)

COIFPM is the world leader in research, development, and practical implementation of novel breakthrough technologies for extraction of oil and gas and geo-storage of greenhouse gases. It is arguably the world's largest experimental and computational research center focused on flow through porous media problems with applications primarily in oil and gas recovery, carbon utilization and storage, and hydrogen storage. The facility provides imaging and flow capabilities at atomic, nano, micro, and macro scales. Furthermore, it establishes a massive capacity for users to conduct numerous studies in parallel. COIFPM started reporting to VPRED in FY2024.

Wyoming Institute for Humanities Research (WIHR)

The Wyoming Institute for Humanities Research strives to be an engine for producing interdisciplinary research in the humanities; a community for faculty, students, and the public; and a model of democratic education fit for our land-grant university. WIHR started reporting to VPRED from FY2024.

Service and Resource Units

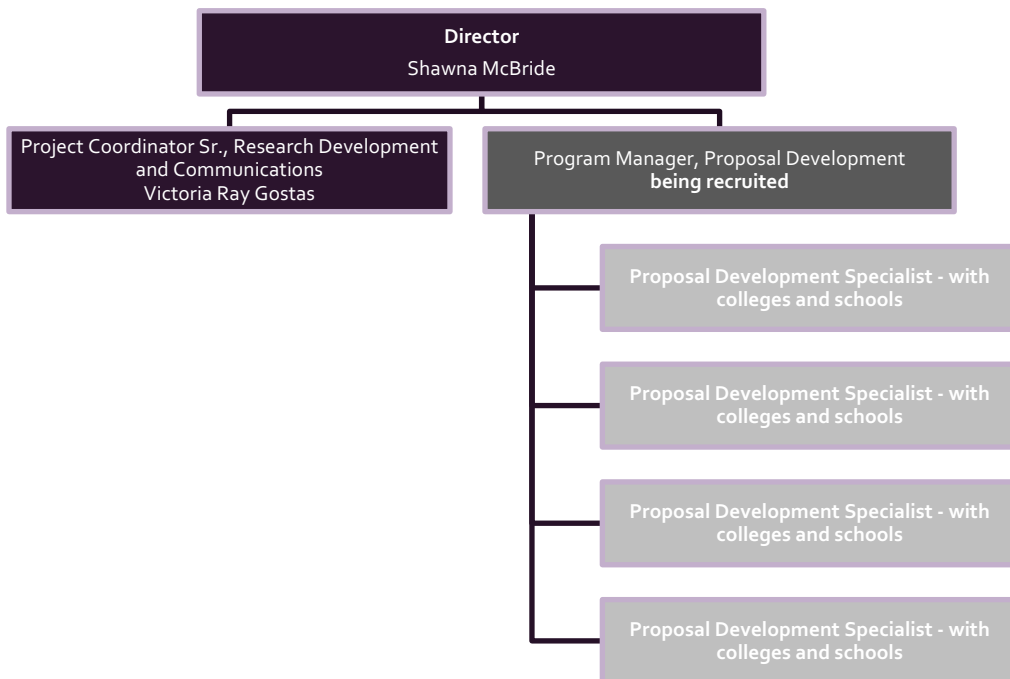
NWSC Center

The NCAR Wyoming Supercomputing Center (NWSC) represents a collaboration between NCAR and UW. Through this center, 320 million core hours of the [Derecho System](#) are available for UW-led projects in the atmospheric, earth system, geological, other NSF-supported sciences, and science areas of interest to Wyoming. In FY2023, the focus was to facilitate use of the new Derecho computer through faculty training as well as to provide opportunities for broad use (not just geoscience and atmospheric sciences) and dedicated use (Derecho Professorship). Because of these efforts, UW faculty sought allocation of more hours in 2023 than in 2022. They will use 180.93 million CPU core hours and 84,685 GPU Core hours compared to allocation of 80.52 million CPU core hours in 2022.

- Small Allocations (CPU Core hours 1.0 million or less): Thirteen small allocation research projects were approved for a total of 13.0 million CPU core hours.
- Large Allocations: Nine large allocation research projects were approved for a total of 134.68 million CPU core hours and 42,185 GPU core hours.
- Derecho Professorship Allocations: Eight Derecho Professorship allocations were approved for a total of 33.25 million CPU core hours and 42,500 GPU core hours.

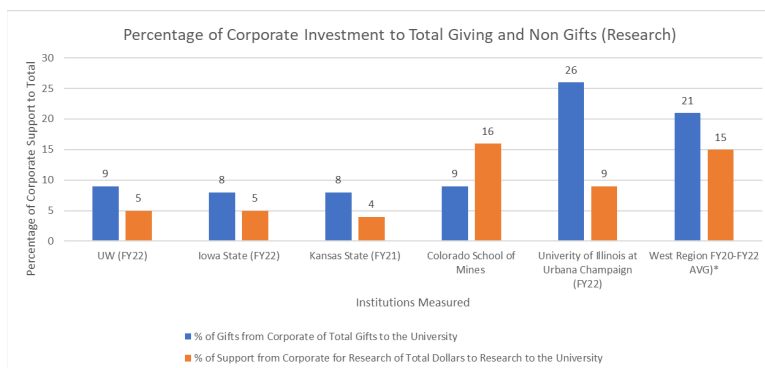
EPSCoR/IDeA Office

EPSCoR, which started as the *Experimental Program to Stimulate Competitive Research* and later became the *Established Program to Stimulate Competitive Research*, was created by Congress in the 1980s to help level the playing field for states like Wyoming who historically received lower amounts of federal research funding compared to other states. EPSCoR started as an NSF program, but several other federal agencies developed EPSCoR or EPSCoR-like programs soon after, including NIH (IDeA), NASA, DOE, DOD, and USDA. The Wyoming EPSCoR/IDeA Office was initiated in July 2023 to help support and build all EPSCoR and IDeA programs in Wyoming. This office will increase opportunities for extramural funding by providing research development support, particularly for complex research proposals, and providing common services for the large institutional projects funded through EPSCoR/IDeA programs. The following is the structure for the EPSCoR/IDeA Office, including positions being recruited to fulfil these functions.



Office of Industry and Strategic Partnerships

Until 2023, Industrial/Corporate partnerships and support from Foundations were primarily driven by individual faculty, colleges/schools, and UW Foundation staff. In FY2023, UW Foundation received \$14.30 million from Foundations and \$8.77 million from corporations. In addition, \$5.06 million were received by UW directly (processed as grants). Compared to UW’s aspirational universities, UW can do better in increasing corporate giving to UW, particularly for research.



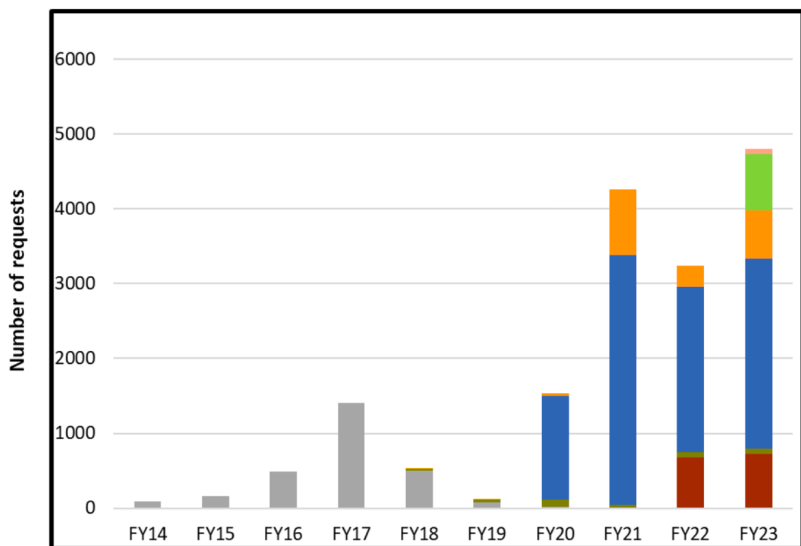
To coordinate campus wide activities and increase industry collaborations and strategic partnerships with community colleges and local organizations, the new Industry & Strategic Partnerships (ISP) Office was established with staff contributed from REDD and UW Foundation. ISP staffing and infrastructure is being constructed to enhance UW’s research and economic development interactions with corporations and small industries, local governments, non-governmental organizations, and education communities.

8. AVPR Units

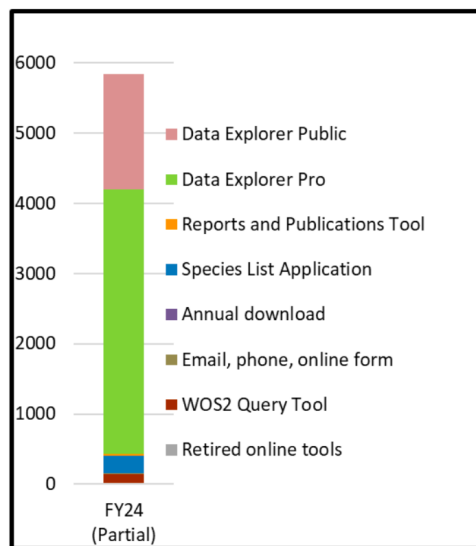
Wyoming Natural Diversity Database (WYNDD)

The Wyoming Natural Diversity Database (WYNDD) is a service and research unit of the University of Wyoming that maintains a comprehensive database on the distribution and ecology of rare plants, rare animals, and important plant communities in Wyoming. WYNDD distributes this information upon request under the philosophy that the best decisions regarding natural resources will be made only when everyone has access to complete and current scientific data. The demand for data from WYNDD continues to increase from Wyoming state and local agencies and industries.

**WYNDD DATA REQUESTS, FY14 – FY23
 BY REQUEST PATHWAY**



**WYNDD DATA REQUESTS, JUN – NOV 2023
 BY REQUEST PATHWAY**



Wyoming Survey & Analysis Center (WYSAC)

WYSAC seeks to provide clear, accurate, and useful information to decision-makers through applied social research, scientific polling, information technology services, and rigorous program evaluation. As such, WYSAC conducts research for government agencies, educational institutions, and other entities in Wyoming and beyond. WYSAC currently employs 24 full time faculty and staff, 1 GA, and roughly 35 hourly-non-benefited research aides to accomplish our research efforts. WYSAC’s total operational and research expenditures for 2023 were approximately \$3,633,971 funded entirely from sponsored projects, associated Indirect Costs, and Project Residuals.

Ongoing or completed sponsored projects in 2023 represent \$4,312,213 in external funding secured by our research faculty. WYSAC performed work on 95 different projects for sponsors during the year. Sponsors include 4 federal direct agencies, 36 federal passthrough, and 55 non-federal agencies. Non-federal agencies included 12 Wyoming state agencies, 3 NPOs, and 10 local governments or other organizations, with the remainder as out-of-state organizations and out-of-state state agencies.

Office of Research Integrity and Compliance

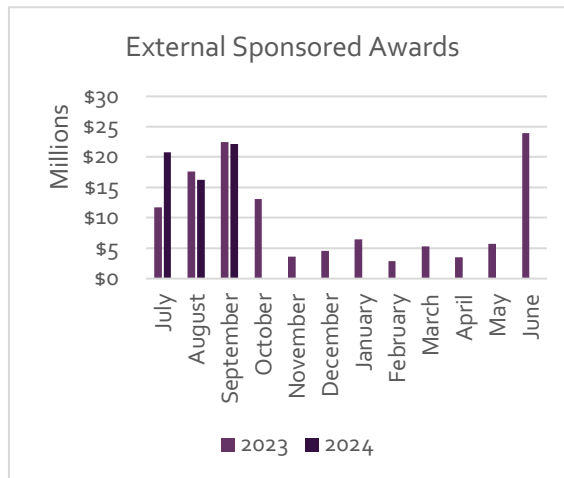
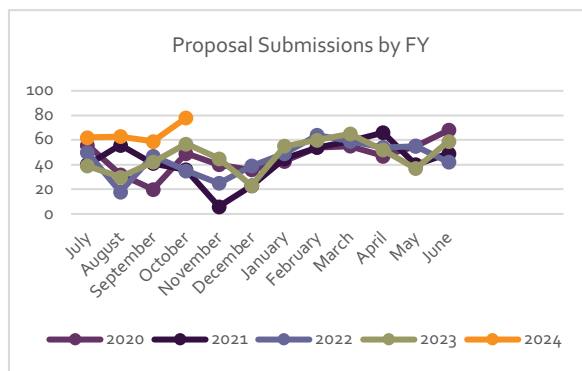
The office is committed to ensuring that all research and educational practices are carried out in a responsible, ethical, and congruent way with the University's mission. It assists UW faculty, students, and staff engaged in research in obtaining appropriate approvals for conducting research involving animals, humans, drones, etc. Its additional areas of expertise include research integrity, conflict of interest, export control, biological and radiation safety, data management, and responsible conduct of research. Key accomplishments of this office in FY2023 include:

- Implementation of ROAMWyo module for animal research, including training and support for researchers and Institutional Animal Care and Use Committee (IACUC) members
- Design and testing of ROAMWyo module for human subjects research, including training and support for researchers and Institutional Review Board members; launch date January 2024
- Assisted in development of ROAMWyo module for Conflict of Interest
- Transition of Responsible Official for Federal Select Agent Program back to REDD
- Launch of ROAMWyo Outside Interest module, resulting in more than 5800 employees completing their disclosures

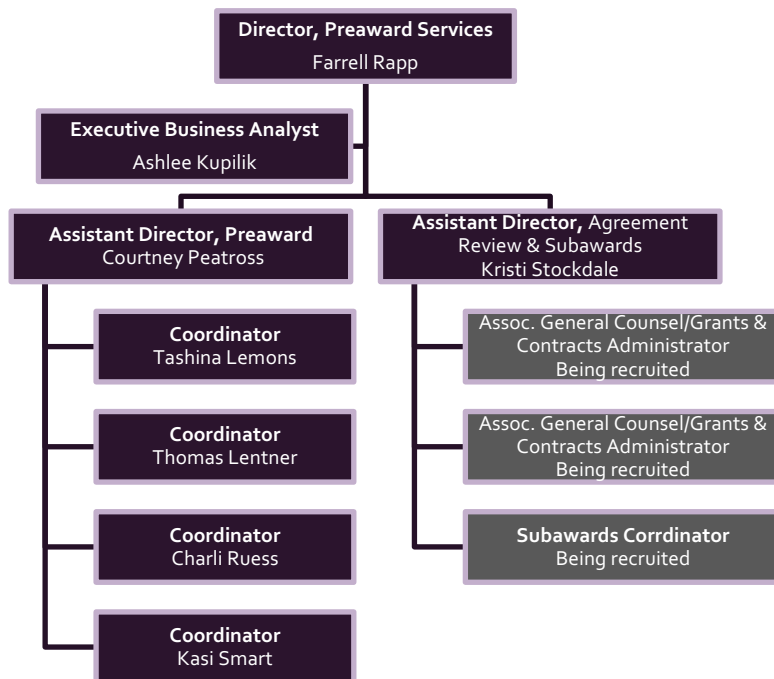
Preaward Services Office

The Preaward Services Office serves UW faculty and researchers that seek extramural grants for research, education, and other activities. The office facilitates submission of grant applications to funding sources in a timely and accurate manner. The office also serves as the authorized organizational representative for such grants and accepts awards from funding agencies. The major accomplishments of this unit include:

- Submission of 564 proposals (5% increase over FY2022). The proposal submissions have increased about 20% in the first quarter of FY2024.
- Contracts and agreements for grants totaling \$120,829,542 in FY2023. UW received more awards in the first quarter of FY 2024 compared to the first quarter of FY2023.

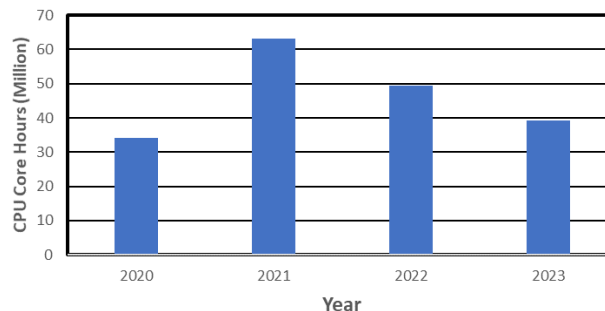


In FY2023 and 2024, the focus has remained on recruitment and hiring of sufficient staff to provide services in timely manner. During this recruitment effort, 2-3 persons were contracted to provide services to the UW staff and faculty. The progress in these efforts is shown in the organizational chart of this office. Once fully staffed and trained, the priority for this office will be to improve processes to increase access to campus community through proactive training, to enhance customer service and responsiveness, and to reduce processing times for proposals and agreements.



Advanced Research Computing Center (ARCC)

ARCC is the primary research computing facility for the University of Wyoming. ARCC provides centralized scientific computing resources, including HPC and research storage. ARCC Beartooth Cluster contains old hardware from previous Moran and Teton Clusters and can provide 130 million CPU Core Hours. This facility is often used by faculty for obtaining preliminary results for the projects that migrate to larger use on NWSC. ARCC usage has declined over the last three years for the following reasons. First, several large users retired or left UW in 2022. They were not replaced until recently. Second, ARCC, along with the School of Computing, transitioned several large users to NWSC in 2023. Such declines are often seen in facilities that are getting outdated. In FY2024, Wyoming legislature provided \$5 million for updating and upgrading the cluster. The new clusters have been purchased and will be installed by Summer 2024. This new cluster, along with recent hiring of computing and computer science faculty will increase the use of ARCC.



Core Facilities

REDD manages several multiuser core facilities that provide service to researchers at UW and outside in conducting specialized assays. These are essential for maintaining and enhancing the research enterprise at UW. To streamline operation of core facilities across the campus, a committee of the faculty and facility directors was convened to make recommendations, which will be implemented in FY2024 and FY2025.

9. AVPED Units

Technology Transfer Office

The Technology Transfer Office supports UW faculty and scientists in translating their research to societal use through the protection, marketing, and ultimate transfer of their intellectual property to industry. In FY2023, the Technology Transfer Office (TTO) lost staff members, including its director. To facilitate transition to a reimagined TTO, interim director role and other services were contracted. TTO has been in the process of restructuring since April 2023, creating a solid foundation for the TTO and anticipated growth of the research enterprise as the University achieves R1 status. Major accomplishments include:

One of the major accomplishments of the TTO this past year is being awarded the NSF Accelerating Research Translation grant. The University applied for and received a grant from the NSF to accelerate research translation for \$6M over four years. The project will develop the Translational Research Accelerator as a unifying force, a program designed to synchronize translational research activities and build a cohesive, university-wide culture of translational research and innovation. Additionally, this project will create a market-driven, I-Corps™-style translational research engine that leverages innovation and entrepreneurship education and mentoring to create "market pull." The grant will allow UW to re-structure technology transfer to be more proactive in identifying commercialization and startup opportunities. This grant will enable the University to address key culture and infrastructure aspects of technology transfer and translational research. This will be accomplished through funding key strategic research translation projects (STRPs) and training and mentoring university faculty, pos-doctoral fellows, and graduate students. In addition, restructuring the TTO will also fulfill the staffing requirements needed to fulfill the objectives of the grant and create a core-competencies in the TTO for research translation, marketing, and commercialization.

The TTO's performance metrics below reflect the activities of the office in fiscal year 2023, showing remarkable improvements since the arrival of the contracted Director. For example, UW was recognized as one of the top 100 innovative Universities based on patents granted in 2023.

Small Business Development Center Network (SBDC and related services)

The Wyoming SBDC Network is a partnership among UW, the Wyoming Business Council, and the U.S. Small Business Administration offering business expertise and technical assistance to help Wyoming's small businesses start, grow, reinvent, or exit. Wyoming Small Business Development Center Network provides no-cost, full-service, customized small business advising for all stages of the business lifecycle, no matter the industry. In FY23 (Oct. 2022-Sep. 2023) SBDC staff served 1,160 clients, receiving attribution from 54 clients starting new businesses, 39 equity infusion transactions totaling more than \$4.6 million, reporting more than \$135 million in annual sales with \$1.4 million in sales revenue growth, and supporting 1,857 jobs.

The SBDC Network also includes the:

- Wyoming SBIR/STTR Initiative (WSSI) provides no cost business advising and education related to the federal small business innovation research and small business technology transfer programs supporting innovative, high-growth, high-tech startups, and small businesses. During FY23 WSSI staff served 145 clients, provided ten virtual workshops/webinars, awarded 17 Wyoming Phase 0 awards totaling \$85,000 to high tech small businesses, reporting more than \$2.1 million in Phase I/II awards from various federal agencies.
- Market Research Center (MRC) services were provided to 247 distinct clients with 270 unique research reports for a total of 1,859 research hours during FY23.

- Wyoming Apex Accelerator (formerly PTAC) staff assist and advise Wyoming businesses that sell or want to sell their goods or services to federal, state, or local governments. These contracting opportunities resulted in serving 193 clients securing over \$69.8 million in government contracts (between Sep. 2022-Aug. 2023).

Manufacturing Works

As Wyoming's Center in the National Institute of Standards and Technology (NIST)'s national manufacturing extension partnership network, Manufacturing Works assists Wyoming manufacturers, producers, and entrepreneurs in growing their revenues, increasing their productivity and performance, and strengthening their global competitiveness. Manufacturing Works tailors its services to meet the critical needs of Wyoming manufacturers, ranging from process improvement and workforce development to cybersecurity and supplier scouting. Through collaboration with a wide array of [industry partners](#), Manufacturing Works strategically identifies and solves clients' most pressing issues, enabling them to elevate their business to the next level. Four years ago, Manufacturing Works was one of the poorest performing centers in the country. In 2023, it is one of the roughly top 20% of performing manufacturing centers in the United States. Manufacturing Works was recently awarded a score of 100 out of maximum 100 on the impact metrics.

Impact307

IMPACT 307 is a network of innovation-driven business incubators committed to growing and strengthening Wyoming's entrepreneurial community by providing resources and support for founders to thrive. Since its establishment, IMPACT307 and its predecessor has assisted in establishment of 243 Wyoming companies. In 2023, IMPACT 307 marked a significant milestone by successfully completing its 38th Start-Up Challenge. The organization showcased remarkable growth, with 10 Start-Up Challenges completed within the year alone.

Center for Entrepreneurship and Innovation (CEI)

CEI fosters entrepreneurship training and culture across UW, including marketing an entrepreneurship minor for all majors, innovation-based courses, and training for students, postdocs, faculty, facilitating interaction with incubators such as Impact 307 hubs, building a pipeline of innovators.

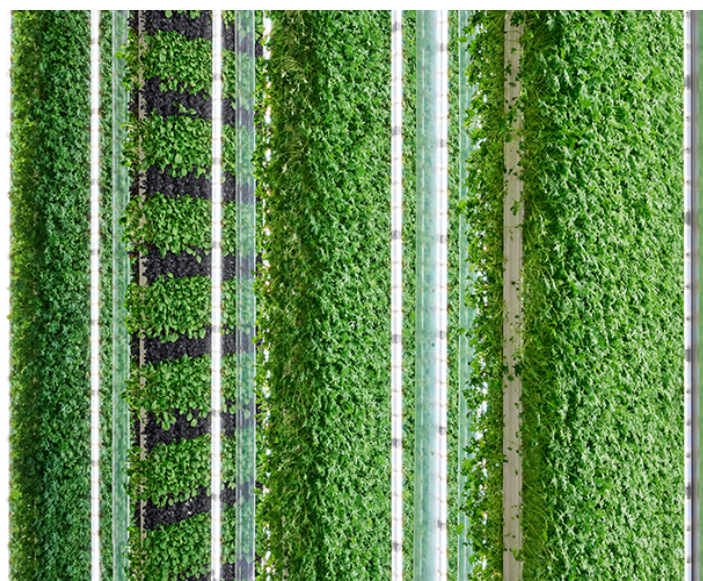
CEI planned and will pilot an innovation course through the Honors College.



The TW Foundation has honored Neil McMurry and his spirit of generosity through a \$1 million gift supporting UW IMPACT 307 (formally the Wyoming Technology Business Center), a statewide network of innovation-driven business incubators committed to growing and strengthening Wyoming's entrepreneurial community by providing resources and support for founders to thrive. The gift will support the Casper Start-Up Challenge.

AGENDA ITEM TITLE: Research and Economic Development Division FY2023 Report on Research Support and Technology Transfer, Chitnis

Research and Economic Development Division



FY2023 Report on Research Support and Technology Transfer

1. Table of Contents

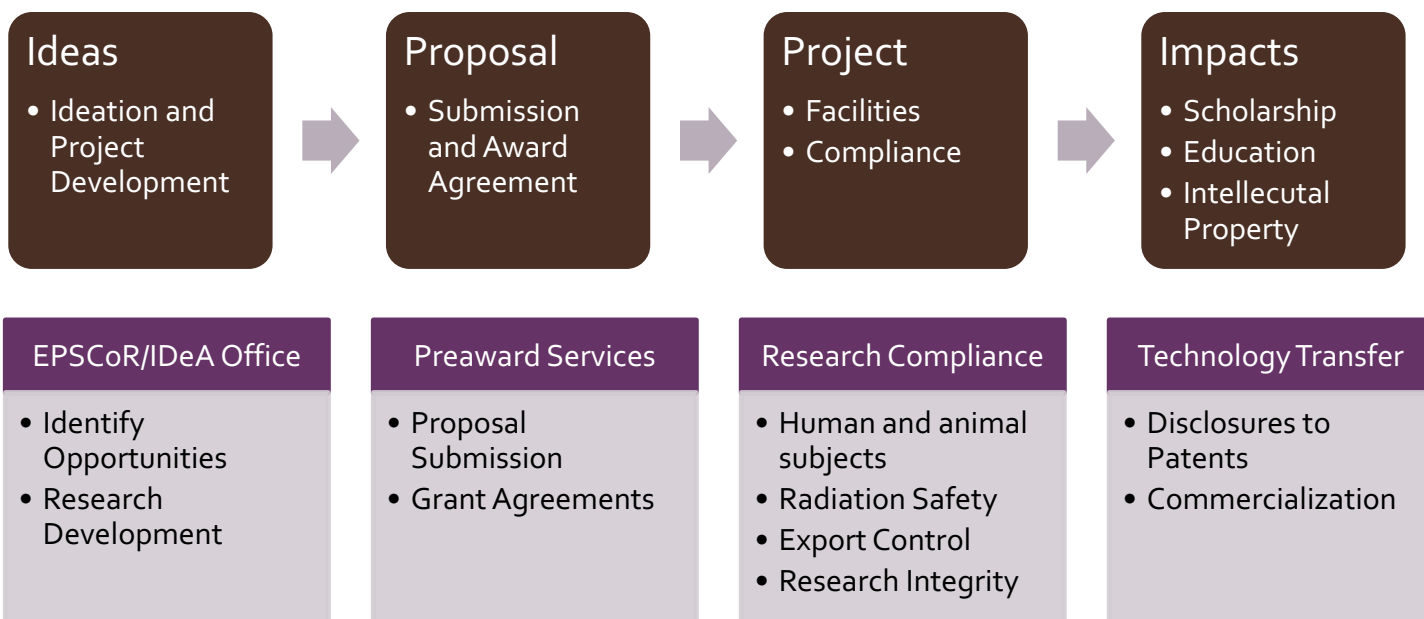
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2. Introduction

The Research and Economic Development Division (REDD) of the University of Wyoming catalyzes expansion of UW's knowledge enterprise (research, service, and innovation), provides experiential learning opportunities for UW students, and facilitates innovation and engagement to support economic development across Wyoming. It aims to

- Increase the breadth, size, and impacts of UW's knowledge enterprise.
- Foster economic development by building a vibrant innovation ecosystem at UW and providing technical assistance across Wyoming.

To achieve these goals, the Division is committed to serve the UW community from Ideas to Impacts progression. REDD will aid in ideation and project development, proposal submission and acceptance of grant agreements, implementation of projects, and achieving and disseminating research impacts through graduate education and experiential learning for undergraduates, through scholarly publications, and by accelerating research translation to commercialized technologies.



- The **EPSCoR/IDeA office** will help UW applicants to create multidisciplinary team projects or single investigator projects. It will help them identify resources. This office was established in FY2024 and is expected to have 7.3 FTEs by the end of 2024, along with strategic project development help provided through a contractor. Additional information can be found in the REDD's annual report to the Board of Trustees.
- The **Research Compliance and Integrity Office** as well as Multiuser Core Facilities across campus help researchers in implementing the projects by facilitating highly sophisticated research in compliance with

applicable laws, regulations, and policies. Additional information can be found in the REDD’s annual report to the Board of Trustees.

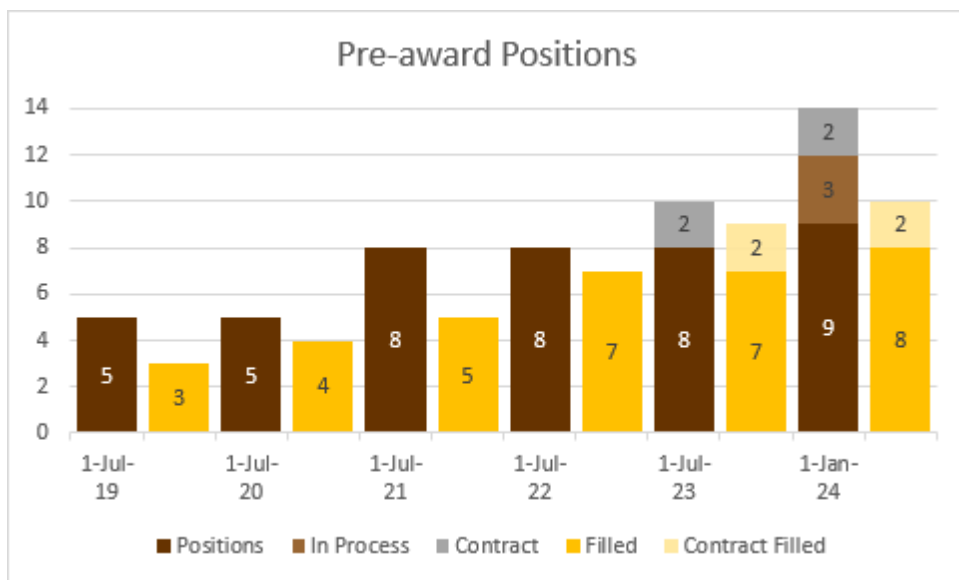
- The **Preaward Services Office** submits fully compliant applications to funding agencies and accepts awards (Authorized Organizational Representative functions). This office was chronically understaffed. In FY2023 and 2024, REDD is focused on staffing the office sufficiently to provide efficient and effective service. Section 3 of this report provides information about the staffing of this office.
- Translation of knowledge generated by research to societal use is at the heart of the land-grant mission of UW. **Technology Transfer Office** (previously called Technology Transfer and Research Products Center) was understaffed and underperforming in FY2023. Immediate actions were taken to contract services, apply for additional funding, and restructure the office. The report on this office is provided in Section 4. To alleviate any potential misunderstanding of how UW manages the intellectual property generated by UW faculty, staff, and students and how conflict of interest is managed when they start a new business, primers on these two stages of commercialization are provided in Section 5.

Additional offices and centers (not included in the following diagram and this report) help at various places in the Ideas to Impacts progression, including the Center for Entrepreneurship and Innovation and Industry and Strategic Partnerships Office.

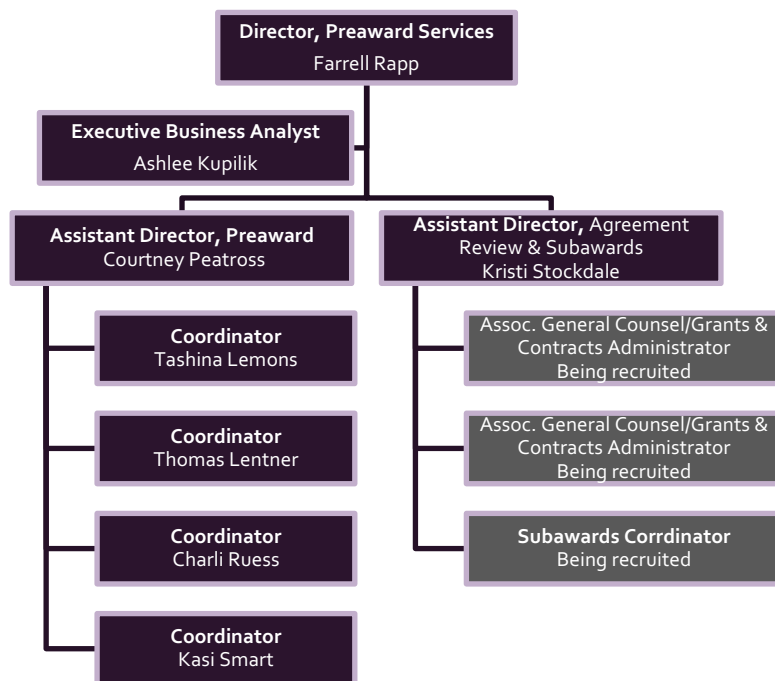
3. Preaward Services Office

It provides service to faculty and researchers that seek extramural grants for research, education, and other activities. The office facilitates submission of grant applications to funding sources in a timely and accurate manner. The office also serves as the authorized organizational representative for such grants and accepts awards from funding agencies. It historically submits approximately 600 applications to federal, state, and other agencies. This number is expected to rise significantly because of concerted effort in increasing the number of submissions.

In FY2023 and 2024, the focus has remained on recruitment and hiring of sufficient staff to provide services in a timely manner. During this recruitment effort, 2-3 people were contracted to provide services to the UW staff and faculty. The progress in these efforts is shown in the figure. In the beginning of FY2020 (July 1, 2019), only three (out of 5) positions were filled in this office. Now it has eight UW staff positions with two contractors helping with the workload. Three positions are being filled. Two of them will also function as Associate General Counsel, thus reducing steps and time needed in processing agreements and contracts.



By the end of 2024, we expect the office to have 11 staff members (including the Director). We do not anticipate continuing the contractors once fully staffed. The organizational chart of this office is shown below.



Once fully staffed and trained, the priority for this office will be to improve processes to increase access to campus community through proactive training, to enhance customer service and responsiveness, and to reduce processing times for proposals and agreements through continuous process improvements.

4. Technology Transfer Office

The Technology Transfer Office supports UW faculty and scientists in translating their research to societal use through the protection, marketing, and ultimate transfer of their intellectual property to industry. In FY2023, TTO lost staff members, including its director. To facilitate transition to a reimagined TTO, interim director role and other services were contracted. TTO has been restructuring since April 2023. Since that time, several items have been addressed to create a solid foundation for the TTO and anticipated growth of the research enterprise as the University achieves R1 status. Major accomplishments include:

1. Accelerating Research Translation proposal to the National Science Foundation

The University applied for and received a grant from the NSF to accelerate research translation for \$6M over four years. The focus of this grant will be to:

- a) Develop the Translational Research Accelerator as a unifying force, a program designed to synchronize translational research activities and build a cohesive, university-wide culture of translational research and innovation.
- b) Create a market-driven, I-Corps™-style translational research engine that leverages innovation and entrepreneurship education and mentoring to create “market pull.”
- c) Re-structure technology transfer to be more proactive in identifying commercialization and startup opportunities.

This grant will enable the University to address key culture and infrastructure aspects of technology transfer and translational research. This will be accomplished through funding key strategic research translation projects (STRPs) and training and mentoring university faculty, pos-doctoral fellows, and graduate students. The primary impact of the grant is:

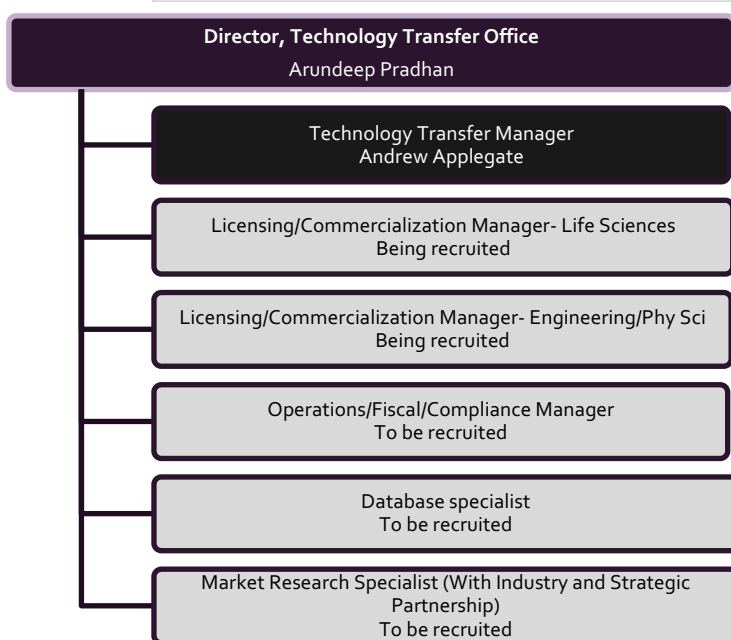
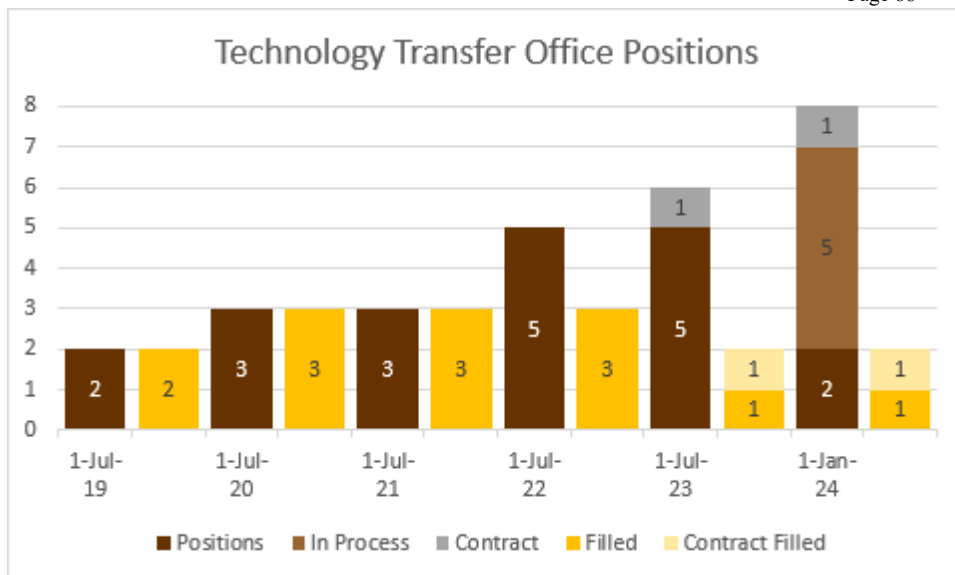
- Enabling the restructuring of the TTO to be more pro-active.
- Staffing of the office with the appropriate personnel for commercialization, licensing, and market research to create a core-competencies in those areas.
- Providing funds to advance selected STRPs to achieve culture changes and impact. The selected STRPS have the potential to result in significant impact through licensing and startups.
- Initiating a culture change that demonstrates the value of parallel pursuit of research excellence and research translation. This grant will enable the University to address key culture and infrastructure aspects of technology transfer and translational research. This will be accomplished through funding key strategic research translation projects (STRPs) and training and mentoring university faculty, pos-doctoral fellows, and graduate students.

In addition, restructuring the TTO will fulfill the staffing requirements needed to fulfill the objectives of the grant and create core-competencies in the TTO for research translation, marketing, and commercialization.

2. Staffing

The TTO has been historically understaffed as shown in the staffing level figure here. Therefore, the office developed and posted job descriptions for the positions to be filled in FY24. Currently TTO has only one UW staff member and one contracted Director, along with several interns. Once fully staffed in spring 2024, the office is expected to have 6.5 FTEs (one shared with Industry and Strategic Partnerships Office). Additionally, the TTO will continue to host several interns.

Increased personnel will allow the TTO to be more proactive in increasing UW IP portfolio by assisting in more disclosures and ultimately patents than now while also enhancing strategic marketing the UW IP for commercialization. Increased revenues through proactive and strategic commercialization efforts will allow TTO's increased size justifiable and financially sustainable.



3. TTO Metrics

The Technology Transfer Office (TTO) metrics below reflect the activities of the office in fiscal year 2023. The year has been complicated with departure of key TTO staff and the subsequent engagement and on-boarding of an interim-director to manage the office through APIOiX.

Fiscal Year	2017	2018	2019	2020	2021	2022*	2023
TTO Metrics							
Invention Disclosures	53	37	30	45	21	27	40
U.S. Patent Applications Filed	53	58	32	34	18	27	33
U.S. Patents Granted	15	7	11	10	14	13	17
Total Licenses and Options Executed	3	0	1	2	0	1	0

New Startups Formed	1	0	0	2	0		1
Industry Sponsored Research Agreements Facilitated							5
CDAs Executed	89	65	92	37	11	2	56
MTAs Executed	38	40	36	10	0	0	~70

*Due to significant staff turnover in FY22 and FY23, TTO records were not updated and maintained consistently. Therefore, the data for FY22 is incomplete, but is in the process of being audited and updated.

4. Income metrics

Licensing income received to date: \$4.05M. FY23 licensing income: \$511,096.

Total dividends received to date: \$111,448. FY23 dividends: \$58,816.

FY23 patent expenses: \$1.36M.

As of August 2023, the University is using an updated license agreement template that was approved by the Office of General Counsel and reviewed by external counsel.

5. Intellectual Property

Between January 1, 2020, and December 31, 2023, the University of Wyoming received 40 issued US patents (Exhibit A).

In addition, The University of Wyoming has been ranked 91st on "Top 100 U.S. Universities Granted Utility Patents in 2022," a list published by the National Academy of Inventors. (Exhibit B).

6. License agreement negotiations

The TTO has initiated license negotiations with several companies (some are University startups) for intellectual property developed at the University.

- a) Magnesis Corporation*: Water treatment technology developed by Dr. Brandt.
- b) PJKT72 Inc.: Technology for conversion of coal to graphite developed by Dr. Te Yu.
- c) Asimica, LLC*: Bacteriophage technology developed by Drs. Grant Bowman and Mushnikov.
- d) Acadian Research and Development*: Technology to convert coal to graphene oxide developed by Dr. Paul Johnson.
- e) Susteon holdings, Inc.: Direct carbon capture technology developed by Dr. Maohong Fan.

*University Startups

7. List Active Startups (alphabetical)

- a) CellDrop Biosciences, Inc.
- b) Blue Sky Group Inc.
- c) ENWYO LLC
- d) Glycobac LLC
- e) MKS Technology LLC
- f) Piri Tech Inc.
- g) PlankTOMICS Algae Bioservices*
- h) Plenty Inc.
- i) SoftRay, Inc. (Acquired by Veolia, Inc. in January 2023)

8. Database migration and cleanup

Migration of the database to servers hosted by Inteum. This will enable automation of key aspects of operations such as automated invoice processing (for patent expenses) and processing non-disclosure agreements. During the migration, the TTO also conducted a database audit. The audit determined that there was critical data missing, and the TTO is engaged in addressing these issues in the following areas:

- a) Licensing: Data has been inconsistently entered especially with respect to licenses executed. Currently there are licensees that are out of compliance with respect to payment of minimum annual payments, royalty reports, and due diligence reports. TTO is in the process of a comprehensive review of the data and reaching out to companies that have an active license to ensure payment and compliance.
- b) Patent docket: The patent information in the database is significantly out of date. The TTO has collected the information that needs to be updated and is working with Bormann & Co., and external patent docketing services, to update records in the database.
- c) Other Agreements: The database is lacking information regarding the number of non-disclosure, materials transfer, and industry sponsored research agreements. This will be the focus of cleanup after critical licensing and patent docketing data has been updated.

9. Collaboration with REDD units.

TTO is working collaboratively, primarily with IMPACT₃₀₇, Industry and Strategic Collaborations, and Research Services to proactively address entrepreneurship and industry collaborations.

IMPACT₃₀₇:

- a) Submission of an EDA grant for startup challenges
- b) Development of a plan to re-deploy the Fisher Launchpad
- c) Development of internal processes and procedures for working with SPARK and the NSF GreatPlains I-Corps hub
- d) Developing a joint proposal to fund seed projects through ASCEND TWO (The University is part of ASCEND TWO as part of an NIGMS initiative to assist universities in the INBRE cohort to commercialize health related technologies).

Industry and Strategic Partnerships (and UW Foundation):

- a) Coordination of activities to reach out and work with companies on strategic long-term relationships. This includes interactions with Genesis Alkali, Hess, Dow, BWXT, and Nvidia
- b) Creation of a monthly group meeting to coordinate efforts between the TTO, Research Services, and Industry and Strategic Collaborations.
- c) Development of a process between the different units to streamline interactions.

Research Services:

- a) Assistance with negotiation of agreements – specifically intellectual property, confidentiality, and publication clauses.
- b) Review of agreements with state and other agencies – specifically negotiations with WYDOT that have resulted in the creation of standard language that is more in-line with University policies and Federal regulations.

10. Outreach

The TTO is proactively reaching out to departments, colleges, and research centers. Over the last 6 months the TTO has held a two-day “open house” at the SI building where it met with several faculty members; held 10 one-on-one meetings with faculty; established contact and developed collaborative efforts with the College of Business, NSF I-Corps Node and SPARK; and, established a working relationship with research centers such as COIFPM, CCCC, and WYSAC.

Future Outreach Efforts

As the TTO increases its staff over the course of the year and starts to implement the strategies for the ART grant, the office will engage in active outreach to the University community. Activities include:

- a) Campus-wide launch event to inform the faculty, students, and staff about the ART grant and funding opportunities.
- b) Presentations on commercial utilization of research at department meetings.
- c) Meetings with deans and center directors to discuss technology transfer opportunities.
- d) One-on-one meetings with faculty and lab groups.

Exhibit A: Patents Issued in 2020 – 2023 (Calendar Years)

Patents Issued in 2020 – 2023 (Calendar Years)		
Patent Number	Title	Inventors
US 10549265 B2	Diethyl oxalate catalysts	Maohong Fan Erlei Jin
US 10602674 B2	Greenwall cladding	Nathaniel R. Storey
US 10617075 B2	Hydroponic produce display apparatus	Nathaniel R. Storey
US 10631481 B2	Modular hydroponic rack system for crop cultivation and transport	Nathaniel R. Storey
US 10638677 B2	Vertical hydroponic plant production apparatus	Nathaniel R. Storey
US 10703981 B2	Enzymatic depolymerization and solubilization of chemically pretreated coal and coal-derived constituents	Michael A. Urynowicz Zaixing Huang
US 10724809 B2	Radiative cooling structures and systems	Ronggui Yang; Xiaobo Yin Ganf Tan Dongliang Zhao Yauguang Ma Yao Zhai
US 10758559 B1	Targeting cathepsin K to facilitate wound healing	Sreejayan Nair
US 10792612 B2	Methods and compositions for the removal of mercury from gases	Robert C. Corcoran Kaspars Krutkramelis Rodolfo A. Monterroso
US 10800987 B2	Composite iron-sodium catalyst for coal gasification	Maohong Fan Rodolfo Monterroso
US 10810495 B2	Methods for data encoding in DNA and genetically modified organism authentication	Don Roth Siguna Mueller Farhad Jafari
US 10818933 B2	Methods, catalysts, and supports for electrochemical devices	Dongmei Li Shibely Saha Brian Leonard
US 10844274 B2	Organic acid-based enhanced waterflooding	Vladimir Alvarado Teresa Reilly

		Kelly Meyers
US 10871439 B2	Enhancement of sensitivity of fountain flow cytometry by background attenuation	Paul E. Johnson
US 10888054 B2	Vertical hydroponic tower array fixture system	Nathaniel R. Storey
US 10944123 B2	Electrical energy generation in fluidic channels and membranes using spontaneous capillary flow	Debashis Dutta
US 11026378 B2	Vertical hydroponic plant production apparatus	Nathaniel R. Storey
US 11077443 B2	Apparatus for temperature modulation of samples	Kennan Oyen Michael Dillon
US 11136558 B2	Compositions and methods for reducing fucosylation of glycoproteins in insect cells and methods of use thereof for production of recombinant glycoproteins	Hideaki Mabashi-Asazuma Donald L. Jarvis
US 11191609 B2	Augmented reality based real-time ultrasonography image rendering for surgical assistance	Joseph Mcginley Suresh Muknahallipatna Bradley Riotto John Mcinroy
US 11205565 B2	Non-intrusive laser-based technique for monitor and control of protein denaturation on surfaces	Erica Belmont Franco Basile James Rundel Andrew Goodenough
US D952183 S	Filtration rack	Jessica Kern
US D954989 S	Filtration rack	Jessica Kern
US 11376219 B2	Localized immunosuppression of allografts for peripheral nerve repair	Jared Bushman
US 11393109 B2	Motion tracking synchronization in virtual reality spaces	Russell N. Todd Qin Zhu Derek T. Smith
US 11402376 B2	Methods and devices for detection of biological materials using electric field assisted rapid analyte capture	Debashis Dutta Michael Taylor Ravichander Rao Peesara
US 11464858 B2	Magnetic nanoparticle delivery system for pain therapy	Baskaran Thyagarajan Padmamalini Baskaran
US 11473004 B2	Microemulsions and uses thereof to displace oil in heterogeneous porous media	Lamia Goual Tianzhu Qin

		Gina Javanbakht Mohammad Piri
US 11478747 B2	Ultrafast catalytic CO.SUB.2 .capture catalyzed by a novel ultrasound-treated ionic liquid	Maohong Fan Xiaowen Zhang Yangyan Gao Armistead G. Russell Xin He
US 11499928 B2	Methods and systems for isochoric measurements using differential scanning calorimetry	Hertanto Adidharma Sugata P. Tan Morteza Dejam Xingdong Qiu
US 11525117 B2	Microbial stem cell technology	Grant Bowman Nikolai Mushnikov Mark Gomelsky
US 11573125 B2	Optical detector	William D. Rice Subash Kattel Joseph R. Murphy
US 11642642 B2	Exploiting oxygen inhibited photopolymerization within emulsion droplets for the fabrication of microparticles with customizable properties	John Oakey Katie Dongmei Li-Oakey Daniel Debroy Carl Frick Rajib Shaha
US 11707437 B2	Topical formulations with resiniferatoxin nanoparticles and methods	Louis Premkumar Baskaran Thyagarajan
US 11731875 B2	Methods for production of graphene oxide	Patrick Johnson Ana Paula Martins Leandro
US 11749083 B2	Method and apparatus for optical ice detection	William D. Rice
US 11761058 B2	Materials derived from coal using environmentally friendly solvents	Dongmei Li Shuai Tan Chenlin Li Luke Williams
US 11766467 B2	Methods of treating wounds using cathepsin K inhibitors	Sreejayan Nair

US 11814299 B2	Method for separation of rare earth elements from coal ash using supercritical carbon dioxide	Mauhong Fan Zaixing Huang
US 11820662 B2	Process and apparatus for carbon nanotube formation	William D. Rice Jeffrey A. Fagan Joshua S. Walker

Exhibit B: Recognition of UW's Innovation Accomplishments

UW Ranks Among Top 100 US Universities Granted Patents in 2022

Published September 14, 2023

The University of Wyoming has been ranked 91st on "Top 100 U.S. Universities Granted Utility Patents in 2022," a list published by the National Academy of Inventors ([NAI](#)).

The new list was created to highlight and celebrate American innovation and to showcase the universities that play a large role in advancing the innovation ecosystem within the U.S. and beyond.

"As a U.S.-based national academy, it is important to us not only to showcase innovation happening on the broader world stage, but here at home as well. Invention has been part of the American experience since the country's inception, with intellectual property (IP) being protected in the Constitution," says Jamie Renee, executive director of NAI. "Innovation has always been at the heart of U.S. culture, and the Top 100 U.S. Universities list allows us to recognize and celebrate the commitment these universities have to the American tradition of invention and protection of IP."

With 15 utility patents granted in 2022, UW tied with George Mason University and the City University of New York, according to the list. That's close behind schools that include Oregon State University (19 patents), Clemson University (19) and Wake Forest University (16) and ahead of schools that include the University of Miami (13), Auburn University (12) and the University of Toledo (11).

A utility patent covers the creation of a new or improved -- and useful -- product, process or machine. Utility patents granted to UW in 2022 included technology and devices for controlled environment agriculture; methods for dealing with foodborne bacteria; technology for nervous tissue repair, stem cells and pain therapy; and technology for oil and gas recovery as well as carbon capture.

Parag Chitnis, UW's vice president for research and economic development, credits UW's Technology Transfer Office, as well as the Office of General Counsel, for helping UW researchers obtain patents.

"Helping turn discoveries by UW researchers into intellectual property that can be commercialized to help diversify Wyoming's economy is a top priority for the university," Chitnis says. "While we are striving to increase our performance and become a Carnegie R1 research university, it is nice to be recognized as a top-100 university in the nation for patent production."

UW's Technology Transfer Office also obtains international patents, plant patents and design patents. Other types of IP protection include trademarks and copyrights.

NAI says the [Top 100 U.S. Universities](#) list is meant to provide a more focused view of the national innovation landscape and the contributions made by U.S. academic institutions. The list was created using calendar year data provided by the U.S. Patent and Trademark Office. Top 100 placement includes all named assignees listed on the patent. To see the full list, go [here](#).

5. Primer on Technology Transfer and Management of Conflict of Interest

This section includes information about how UW handles protection and use of intellectual property generated by research performed at the University. When faculty establish startups, their conflict of interest is managed carefully. Information about this process is also included. Detailed information can be found in the following sources:

University Intellectual Property (UW Regulation 9-1)

https://www.uwyo.edu/regs-policies/_files/docs/regulations-2021/uw_reg_9-1_approved_10-13-21.pdf

University Conflicts of Interest and Commitment Policy (Standard Administrative Policy and Procedure)

https://www.uwyo.edu/research/_files/research_compliance/conflict_of_interest/_docs/conflict.of.interest.sap.effective.8.1.23.pdf

Intellectual Property Ownership at the University of Wyoming

This document is a synopsis of University of Wyoming Regulation 9-1 and is a high-level overview of the regulation and is not meant to be used as a basis for making determinations of ownership of intellectual property resulting from activities of University Wyoming employees and students.

Background

The passage of the Bayh-Dole Act in 1980 resulted in a fundamental change in ownership of patents resulting from federally funded research was handled. As of 1980, ownership of patents (and other intellectual property) resulting from federally funded research, vests with the entity conducting that research – this applies to all recipients of federal research dollars. As a result of the Bayh-Dole act, universities have revised their IP policies to reflect these changes and outline ownership of all forms of IP – patents, copyrights, and trademarks.

University of Wyoming Regulation 9-1

Responsible Officers: Vice President for Research and Economic Development; Vice President for Academic Affairs

Purpose: Establish ownership of intellectual property rights and to provide guidelines for the distribution of income received for the dissemination of those works.

Applies to: All University employees and students conducting research and development.

Coverage: All Intellectual Property, including that which is patentable, or part thereof which results from research or other activities carried out at the University, or which is developed with the aid of the University's facilities or employees, or with funds administered by the University.

All "Works made for hire," as defined by the U.S. Copyright laws of 1976.

All software, programs, operating systems, procedures, and associated manuals, service marks, trademarks, and trade names with respect to products resulting from or arising out of research, instruction, or other activities carried out at the University, or developed with the aid of its resources, hardware, facilities, or staff.

Exceptions To University Ownership: Intellectual property not within the scope of the employee's duties and created on personal time (as demonstrated by appropriate documentations).

Works of Authorship, except "Works made for Hire"

Academic Course Materials

Intellectual property created by undergraduate and graduate students unless such student is a university employee or is part of a university research project where IP ownership is part of an agreement or if such student is part of a faculty-led research project.

Income Sharing: After recovery of the University's patent costs and a 15% fee for the Technology Transfer Office, income resulting from the commercialization of university owned IP is shared with the inventors:

60% of licensing income up to \$5m

50% of licensing income from \$5m to \$10m

40% of licensing income from \$10m to \$20m

35% of licensing income thereafter.

Conflict of Interest and Commitment Management for Faculty Start-up Companies at the University of Wyoming

Applicable Policy:

In the University Conflict of Interest and Commitment Policy, the definition of "Significant Financial Interest" (SFI) includes "B. Equity interests such as stocks and stock options and other ownership interests which: 1. Exceed \$5,000 in value or represent more than five percent ownership interest in any single entity". Private business entities established (Start-ups) and/or owned by University Faculty members fall within this definition of SFI.

SFIs are important to identify as they are likely to form the basis for a Conflict of Interest, defined by the University Policy as "an interest that affects or provides an incentive to affect the Employee's conduct of her or his University activities". In addition, a Conflict of Commitment arises when a University Employee engages in private business activities to the point where it "interferes with the Employee's ability to perform their obligations to the university". Finally, the Public Health Service Act requires disclosure of SFI's of key personnel to the National Institute of Health. As other federal agencies finalize the development of policies and procedures over the next year, additional agencies will most likely require similar disclosure.

Process:

The existence of SFIs in the form of Start-ups is currently discovered from three potential sources:

1. Employee's responses to completion of the required annual disclosure questionnaire in Cayuse either when hired, immediately upon acquisition of a new interest, or annually.
2. Information provided by the University Technology Transfer Office when negotiating an intellectual property license.
3. Independent reports, often arising when a private business entity is interested in using either University facilities or technology.

Once the existence of an employee Start-up is discovered a Conflict of Interest and Commitment Management Plan template is sent from the Director of Research Security and Conflict of Interest to the university employee and the dean or department head of the employee. The dean or department head serves as the Managing Supervisor during the management plan's term.

Aspects of Management Plan Template:

- Applicable parties: Employee, Company, and dean or department head.
- Preamble: Reason for agreement and primary issues to be addressed.
- Term: Current template provides for an ongoing term. This should be reviewed by the COI/C Committee
- Management: Specifics outlining proposed research activities and use of technology.
- Reporting and General Conduct: Annual reporting requirement, conflict of commitment, requirement to recuse in university/company decisions.
- UW Resources: General policy, funding, space, equipment, expendable materials.
- Personnel: University personnel and students.
- Grants and Contracts: Inability to serve as PI for company-sponsored activities without prior approval. How company/UW contracts are to be handled.
- List of applicable University Office and Committees, Research Integrity, Intellectual Property, Review and Record Keeping, and Relationship to Employment Agreement.

AGENDA ITEM TITLE: Discrimination and Harassment, Mandatory Reporting, and Bystander Intervention Training, Osborn



**DISCRIMINATION AND
HARASSMENT, MANDATORY
REPORTING, AND BYSTANDER
INTERVENTION**

UW Regulation 4-2 Prohibits Discrimination

UW does not discriminate on the basis of race, gender, religion, color, national origin, disability, age, protected veteran status, sexual orientation, gender identity, genetic information, creed, ancestry, political belief, or any other applicable protected class or participation in any protected activity.

UW will not tolerate acts of discrimination or harassment or related retaliation against or by any employee or student. Individuals who violate this policy shall be subject to corrective action and/or discipline, up to and including termination or separation from the University.

Sexually harassing behavior is prohibited and will not be tolerated.

- Sexual misconduct can happen to anyone, regardless of gender or sexual orientation.
- If you experience or are aware of sexually harassing behavior, immediately report it to EORR so that we can provide support and resources.

To make a report or to review confidential reporting options please visit www.uwyo.edu/reportit or contact:

Equal Opportunity Report and Response (EORR)

[**report-it@uwyo.edu**](mailto:report-it@uwyo.edu)

766-5200

**ALL UW
EMPLOYEES ARE
REQUIRED TO
REPORT
HARASSMENT
AND
DISCRIMINATION
TO EORR**



WHEN UW RECEIVES A REPORT



Our first priority is to ensure the safety of everyone involved and address any potential threats

- making referrals to appropriate support and resources
- taking interim measures necessary to ensure individuals can continue working and learning

We also report statistical information to UWPD for use in the Campus Safety and Security Report, which is available on the UWPD website.

Accommodations at UW

UW adheres to all federal and state laws regarding individuals with disabilities.

Employees who have a disability may request accommodations by contacting Human Resources (hrbenofc@uwyo.edu, 766-2215) to engage in an interactive process.

- This includes consultation with the department's Appointing Authority or designee to identify the essential elements of the job and determine reasonable accommodations.
- HR can also assist if the employee needs to file a long-term disability claim.

Students may contact Disability Support Services to request accommodations.

www.uwyo.edu/udss, udss@uwyo.edu, 766-3073 (phone/TeleType)

PUTTING PEOPLE FIRST IS THE WYOMING WAY

Being neighborly and looking out for one another is part of the Wyoming way of life. At UW, we are all responsible for helping create a positive and productive environment.

WE MUST ALL CREATE A SAFE ENVIRONMENT AT UW

UW is committed to reducing and preventing power-based personal violence such as sexual assault, relationship violence, and stalking. Green Dot is a bystander intervention program to reduce these forms of violence with one thought:

**If everyone does one thing,
no one will have to do everything.**

(www.uwyo.edu/greendot, greendot@uwyo.edu)

A Green Dot is your choice at any moment to make campus safer by promoting safety for everyone and letting others know that you will not tolerate violence. A Green Dot is any behavior, choice, word or attitude that sends a clear message that:

- 1. Violence is not okay with you, and***
- 2. Everyone is expected to do their part.***





UNIVERSITY OF WYOMING

THE 3Ds



DIRECT

Directly insert yourself into a red dot situation and address those who are involved.



DELEGATE

If you do not feel comfortable diffusing the situation, ask someone for help.



DISTRACT

Create a diversion to interrupt and discontinue the red dot behavior.

LEARN MORE ABOUT GREEN DOT: UWYO.EDU/GREENDOT



[UWYOGreenDot](https://www.instagram.com/UWYOGreenDot)

EXAMPLES OF GREEN DOTS

- Asking if someone is okay if you feel or see something concerning.
- Offering to be a safe ride home or walking them to SafeRide.
- Letting restaurant staff, bar staff or campus staff know that something might be high-risk.
- Causing a distraction to diffuse the situation.
- Telling someone to “back-off.”
- Checking in with friends who are acting differently after starting a new relationship.
- Posting on Social Media about violence prevention.
- Encouraging others to attend a Green Dot overview speech or training.
- Placing a Green Dot logo in your email signature with a statement like "Ask me about Green Dot!" to help spread the word.
- Using a Green Dot Zoom background in virtual meetings to spark conversation.



UW Resources for Learning More

UW offers additional training about actions you can take to maintain a safe community free from violence, harassment, and discrimination.

If you have any questions or concerns about sexual misconduct or discrimination, please visit the ReportIt Page or contact EORR.

If you're interested in learning more or becoming more involved, please contact the Green Dot Program, the NO MORE Committee, or the Albany County SAFE Project.



QUESTIONS?

AGENDA ITEM TITLE: Adoption of UW Regulations 1-103, 2-17, 2-122, 2-208, 3-2, 4-5, 5-5, 6-11, 8-2, 9-3, 11-9, 12-6 (Standard Administrative Policies and Procedures – Governance and Structure, Academic Personnel, Academic Management, Enrollment Management, Athletics, Employment and Ethics, Facilities, Information Technology, Research and Economic Development, Student Affairs, and University Relations) - Evans

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Governance and Structure

Number: UW Regulation 1-103



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University governance and structure related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University shall establish and maintain Standard Administrative Policies and Procedures for its governance and structure related matters.

Responsible Division/Unit: Office of the President

Source: None

Link: <http://www.uwyo.edu/regs-policies>

Associated Regulations, Policies, and Forms: None.

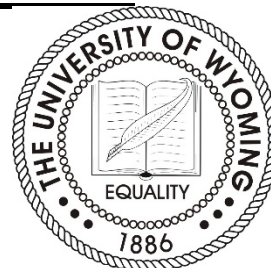
History:

UW Regulation 1-103 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Academic Personnel

Number: UW Regulation 2-17



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University academic personnel related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Provost and Executive Vice President for Academic Affairs, shall establish and maintain Standard Administrative Policies and Procedures for its academic personnel related matters.

Responsible Division/Unit: Office of Academic Affairs

Source: None

Link: <http://www.uwyo.edu/regs-policies>

Associated Regulations, Policies, and Forms: None.

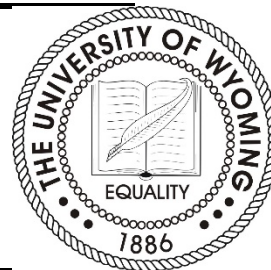
History:

UW Regulation 2-17 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Academic Management

Number: UW Regulation 2-122



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University academic management related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Provost and Executive Vice President for Academic Affairs, shall establish and maintain Standard Administrative Policies and Procedures for its academic management related matters.

Responsible Division/Unit: Office of Academic Affairs

Source: None

Link: <http://www.uwyo.edu/regs-policies>

Associated Regulations, Policies, and Forms: None.

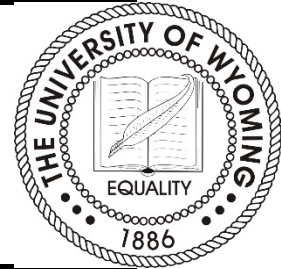
History:

UW Regulation 2-122 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Enrollment Management

Number: UW Regulation 2-208



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University enrollment management related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Provost and Executive Vice President for Academic Affairs, shall establish and maintain Standard Administrative Policies and Procedures for its enrollment management related matters.

Responsible Division/Unit: Office of Academic Affairs

Source: None

Link: <http://www.uwyo.edu/regs-policies>

Associated Regulations, Policies, and Forms: None.

History:

UW Regulation 2-208 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Athletics

Number: UW Regulation 3-2



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University athletics related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Athletic Director, shall establish and maintain Standard Administrative Policies and Procedures for its athletics related matters.

Responsible Division/Unit: Division of Intercollegiate Athletics

Source: None

Link: <http://www.uwyo.edu/regs-policies>

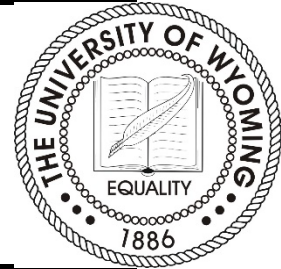
Associated Regulations, Policies, and Forms: None.

History:

UW Regulation 3-2 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Diversity and Equal Opportunity
Number: UW Regulation 4-5



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University diversity and equal opportunity related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Vice President and General Counsel and the Vice President for Diversity, Equity, and Inclusion, shall establish and maintain Standard Administrative Policies and Procedures for its diversity and equal opportunity related matters.

Responsible Division/Unit: Division of General Counsel and Division of Diversity, Equity, and Inclusion

Source: None

Link: <http://www.uwyo.edu/regs-policies>

Associated Regulations, Policies, and Forms: None.

History:

UW Regulation 4-5 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Employment and Ethics

Number: UW Regulation 5-5



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University employment and ethics related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Vice President for Budget and Finance, shall establish and maintain Standard Administrative Policies and Procedures for its employment and ethics related matters.

Responsible Division/Unit: Division of Budget and Finance, Human Resources

Source: None

Link: <http://www.uwyo.edu/regs-policies>

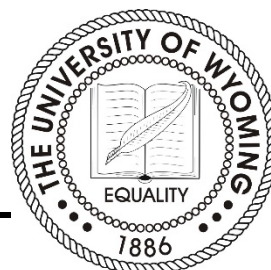
Associated Regulations, Policies, and Forms: None.

History:

UW Regulation 5-5 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Facilities
Number: UW Regulation 6-11



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University facilities related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Vice President for Campus Operations, shall establish and maintain Standard Administrative Policies and Procedures for its facilities related matters.

Responsible Division/Unit: Division of Campus Operations

Source: None

Link: <http://www.uwyo.edu/regs-policies>

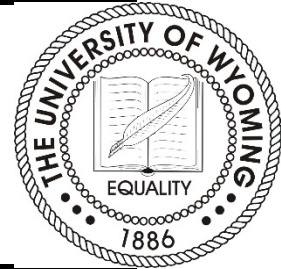
Associated Regulations, Policies, and Forms: None.

History:

UW Regulation 6-11 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Information Technology
Number: UW Regulation 8-2



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University information technology related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Vice President for Information Technology, shall establish and maintain Standard Administrative Policies and Procedures for its information technology related matters.

Responsible Division/Unit: Division of Information Technology

Source: None

Link: <http://www.uwyo.edu/regs-policies>

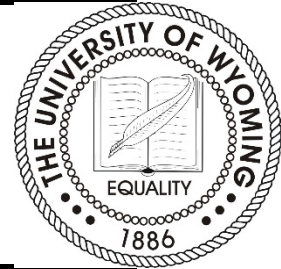
Associated Regulations, Policies, and Forms: None.

History:

UW Regulation 8-2 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Research and Economic Development
Number: UW Regulation 9-3



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University research and economic development related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Vice President for Research and Economic Development, shall establish and maintain Standard Administrative Policies and Procedures for its research and economic development related matters.

Responsible Division/Unit: Division of Research and Economic Development

Source: None

Link: <http://www.uwyo.edu/regs-policies>

Associated Regulations, Policies, and Forms: None.

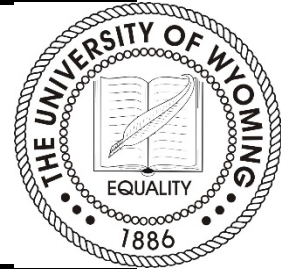
History:

UW Regulation 9-3 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – Student Affairs

Number: UW Regulation 11-9



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University student affairs related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Vice President for Student Affairs, shall establish and maintain Standard Administrative Policies and Procedures for its student affairs related matters.

Responsible Division/Unit: Division of Student Affairs

Source: None

Link: <http://www.uwyo.edu/regs-policies>

Associated Regulations, Policies, and Forms: None.

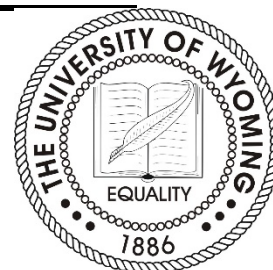
History:

UW Regulation 11-9 adopted XX/XX/XXXX Board of Trustees meeting

UNIVERSITY OF WYOMING REGULATIONS

Subject: Standard Administrative Policies and Procedures – University Relations

Number: UW Regulation 12-6



I. PURPOSE

To establish Standard Administrative Policies and Procedures related to University relations related matters.

II. DEFINITIONS

Standard Administrative Policy and Procedure: As defined in UW Regulation 1-101, an operational rule, course of action, or set of steps for completing tasks related to a Regulation. Standard Administrative Policies and Procedures must be approved by the President and are administered by at least one University Officer.

III. POLICY

The President of the University, through the Vice President for Governmental Affairs and Community Engagement and the Vice President for Institutional Advancement, shall establish and maintain Standard Administrative Policies and Procedures for its University relations related matters.

Responsible Division/Unit: Division of Governmental Affairs and UW Foundation

Source: None

Link: <http://www.uwyo.edu/regs-policies>

Associated Regulations, Policies, and Forms: None

History:

UW Regulation 12-6 adopted XX/XX/XXXX Board of Trustees meeting

AGENDA ITEM TITLE: Service Contract and Procurement Reports, Evans

UW Regulation 7-2 (Signature Authority) Contracts Board Report - October 16, 2023 - December 15, 2023

Contract Number	Contract Name	Contract Type	Department	Supplier	Signed Date	Agreed Amount	Signer
12211-CrownePlazaPhoenixAirport-May2023	WSARE Sustainable Ag Summit	Services Contract	College of Agriculture & Natural Resources	Crowne Plaza Phoenix Airport	2023-12-07	80,873.62	Barbara Rasco, Dean/Professor
October2023-Copper Mountain Irrigation	PO Agreement-Copper Mountain Irrigation	Services Contract	College of Agriculture & Natural Resources	Copper Mountain Irrigation LLC	2023-10-19	299,893.00	Barbara Rasco, Dean/Professor
13101-LoudenStudioLLC-November2023	WIP Phase II Grant Work	Services Contract	College of Arts & Sciences	Louden Studio LLC	2023-11-14	55,000.00	John Turpen, Dean/Professor
14004-REMI-July 2023	REMI Maintenance Contract	Services Contract	College of Business	Regional Economic Models Inc	2023-11-29	56,000.00	Scott Beaulier, Dean/Professor
14104-MBA-MIT Venture Mentoring-Oct 2023	MIT Venture Mentoring Service Agreement	Services Contract	College of Business	Massachusetts Institute of Technology	2023-10-24	52,500.00	Scott Beaulier, Dean/Professor
10601-Cardiff-July2023	Cardiff	Services Contract	College of Engineering & Applied Science	Cardiff University	2023-11-03	60,000.00	Cameron Wright, Dean/Professor
10602-Woolpert-Oct2023	LIDAR Derivatives	Services Contract	College of Engineering & Applied Science	Woolpert, INC	2023-10-30	1,181,201.00	Ed Seidel, President
16101StraightFlight92023	N200UW repairs	Services Contract	College of Engineering & Applied Science	Straight Flight Inc	2023-11-01	62,067.11	Cameron Wright, Dean/Professor
17022 Archambault Consulting Aug 2023	Archambault Consulting	Services Contract	College of Health Sciences	Archambault Consulting, LLC	2023-12-14	57,000.00	Jacob Warren, Dean/Professor
17107_Alliance of Chicago_Athena One_09292023	Athena One EMR	Services Contract	College of Health Sciences	Alliance of Chicago Community Health Svc	2023-10-16	6,115,607.00	Ed Seidel, President*
11001OptaSenseJuly2022	11001_OptaSense_July2022	Services Contract	Enhanced Oil Recovery Institute	OptaSense Inc.	2023-12-14	111,467.50	Holly Krutka, Executive Director
11001_BrianJeffries_July2023	11001_BrianJeffries_July2023	Services Contract	Enhanced Oil Recovery Institute	Brian E Jeffries	2023-12-11	153,500.00	Holly Krutka, Executive Director
11001_ESGSolutions_Nov2022	11001_ESGSolutions_Nov2022	Services Contract	Enhanced Oil Recovery Institute	Engineering Seismology Group Canada Inc	2023-10-16	356,620.00	Holly Krutka, Executive Director
11001_Hydrocarbon_InSight_Sept2023	11001_Hydrocarbon_InSight_Sept2023	Services Contract	Enhanced Oil Recovery Institute	Hydrocarbon InSight LLC	2023-10-18	50,000.00	Holly Krutka, Executive Director
11001_JimmyGoolsby_March2023	11001_JimmyGoolsby_March2023	Services Contract	Enhanced Oil Recovery Institute	Goolsby, Jimmy	2023-12-12	51,000.00	Holly Krutka, Executive Director
10031_EEFC_November2023	10031_EEFC_November2023	Services Contract	Global Engagement	EEFC,Inc.	2023-11-22	52,763.00	Isadora Helfgott, Vice Provost/Assoc Professor, Global Engagement
28350-AIFS_Germany_Poland_Nov2023	AIFS Germany/Poland 2024	Services Contract	Global Engagement	American Institute for Foreign Study	2023-11-27	55,125.00	Isadora Helfgott, Vice Provost/Assoc Professor, Global Engagement
10401GrandCanyonExpeditionsDecember2023	Agreement for Services	Services Contract	Haub School of Environment and Natural Resources	Grand Canyon Expeditions	2023-12-12	85,800.00	John Koprowski, Professor/Dean/Wyo Excellence Chair
10401NativeRangeOctober2023	Agreement for Services	Services Contract	Haub School of Environment and Natural Resources	Native Range Capture Services Inc.	2023-10-25	2,500,000.00	John Koprowski, Professor/Dean/Wyo Excellence Chair**
10401VectronicOctober2023	Agreement for Services	Services Contract	Haub School of Environment and Natural Resources	Vectronic Aerospace Inc.	2023-10-25	5,750,000.00	John Koprowski, Professor/Dean/Wyo Excellence Chair**
10012-Honorlock-July2023	Honorlock AI + Live Pop-In - Per Exam	Services Contract	Information Technology	Honorlock Inc	2023-11-22	180,000.00	Robert Aylward, Vice President
40002 AVI- SPL, EIC, December 2023	#439088-2	Services Contract	Information Technology	AVI-SPL LLC	2023-12-11	78,855.38	Robert Aylward, Vice President
70430SlateGroupOct2023	Agreement for Services: Slate Group & UW 2023-2028	Services Contract	Institutional Marketing	Slate Group	2023-10-20	4,250,000.00	Chad Baldwin, Assoc VP, Comm&Mktg**
90001 - JC Hospitality - Sept 2023	Group Sales Agreement	Services Contract	Intercollegiate Athletics	JC Hospitality	2023-11-03	93,527.76	Matthew Whisenant, Deputy Director
90014 - JW Marriott Starr Pass - Dec 2023	Hotel Agreement	Services Contract	Intercollegiate Athletics	JW Marriott Starr Pass Resort & Spa	2023-12-15	300,000.00	Samuel Brodie, Assoc AD/Budgeting & Fin Mgmt
90201-LuxoJet-MBB Charters-October2023	Luxo Jet MBB Charters Contract	Services Contract	Intercollegiate Athletics	Luxo Jet Inc	2023-10-24	250,350.00	Samuel Brodie, Assoc AD/Budgeting & Fin Mgmt
90201UtahTech112024	Game agreement	Services Contract	Intercollegiate Athletics	Utah Tech University	2023-11-06	85,000.00	Matthew Whisenant, Deputy Director
90251Wyoming Air Fax_SoFly_October2023	90251Wyoming Air Fax_SoFly_Oct23	Services Contract	Intercollegiate Athletics	SoFly, Inc.	2023-10-18	276,096.00	Samuel Brodie, Assoc AD/Budgeting & Fin Mgmt
10012-GrayAssociates-Sept 2020	Gray Associates	Services Contract	Provost	Gray Associates Inc	2023-12-11	61,050.00	Tami Benham-Deal, Senior Vice Provost/Professor
10101- Niche- Sept.2021	Niche	Services Contract	Provost	Niche.com, Inc.	2023-12-11	388,750.00	Tami Benham-Deal, Senior Vice Provost/Professor
70001AttainSept2021	Consulting Services Related to eRA System Implementation	Services Contract	Research & Economic Development	Attain Consulting Group, LLC dba Attain Partners	2023-12-03	255,000.00	Parag Chitnis, VP for Research and Economic Development
70001BigelowDec2023	Bigelow Grant Writing Services	Services Contract	Research & Economic Development	Bigelow Grant Writing Services LLC	2023-11-29	50,000.00	Farrell Rapp, Director, Research Services
70003eCRTSubscription201802	eCRT Subscription Agreement	Services Contract	Research & Economic Development	Huron Consulting Services	2023-10-26	463,580.00	Robert Aylward, Vice President
71004CambridgeComputerDec2023	Cambridge Computer Hardware HCI/Software Verge.io	Services Contract	Research & Economic Development	Cambridge Computer Services, Inc.	2023-12-12	97,715.36	Farrell Rapp, Director, Research Services
72003-UNITE-Dec2023	UNITE Consulting Services for the University of Wyoming	Services Contract	Research & Economic Development	TripC LLC DBA UNITE	2023-11-21	98,240.00	Farrell Rapp, Director, Research Services
10501 - Sallie Greenberg	Consulting Service Agreement	Services Contract	School of Energy Resources	Sallie E Greenberg dba Greenberg Consulting	2023-12-11	80,000.00	Holly Krutka, Executive Director
10501-Angelos Kokkinos-Nov 2023	Agreement for Services between the University of Wyoming and Angelos Kokkinos	Services Contract	School of Energy Resources	Kokkinos, Angelos	2023-11-14	80,000.00	Holly Krutka, Executive Director
10501-TriHydro_Dec2022	Agreement for Services Btwn UW & TriHydro Corp.	Services Contract	School of Energy Resources	TriHydro Corp	2023-12-14	349,641.00	Holly Krutka, Executive Director
19002-Gale-Dec 2023	CENGAGE SALES AGREEMENT	Services Contract	University Libraries	Gale	2023-12-14	683,989.50	Cassandra Kvenild, Interim Dean
26001AreteDesignGroupNov2023Amend2CorbettNatoriumAdditi on	Amendment No. 2	Services Contract	University Operations	Arete Design Group	2023-11-20	432,140.00	William Mai, Vice President, Campus Operations
26001FCIConstructorsCO6Nov2023LawSchoolRenovation&Expansi on	Change Order No. 6	Services Contract	University Operations	FCI Constructors of Wyoming, LLC	2023-12-13	461,046.00	William Mai, Vice President, Campus Operations
26001GEJohnsonWyomingConstructionNov2023CorbettNatorium AdditionaGMP	Amendment No. 1	Services Contract	University Operations	GE Johnson Construction Co	2023-11-20	49,737,537.00	William Mai, Vice President, Campus Operations***
26001RF-IF,Inc.Nov2023AgmtforServicesWarMemorialStadiumWirelessModif ications	Agreement for Services	Services Contract	University Operations	RF-IP, Inc.	2023-12-05	275,952.00	William Mai, Vice President, Campus Operations
26001ReimanCorpSept2023AgreementUWTransitFuelFacility	Agreement Between Owner and Contractor	Services Contract	University Operations	Reiman Corp	2023-10-23	1,590,300.00	William Mai, Vice President, Campus Operations****
26001YamahaNov2023MutualConfirmationLetter	Mutual Confirmation Letter	Services Contract	University Operations	Yamaha Motor Finance Corporation USA	2023-10-30	52,965.00	William Mai, Vice President, Campus Operations
31014-Medical-Nov-2023	Software Maintenance and Customer Support Agreement	Services Contract	VP Student Affairs Office	Medical, LLC	2023-11-16	53,989.50	Kimberly Steich, VP for Student Affairs

*Board of Trustees approved September 22, 2023.
 **Board of Trustees approved October 18, 2023.
 ***Board of Trustees approved November 16, 2023.
 ****Board of Trustees approved July 13, 2023.

UW Regulation 7-2 (Signature Authority) Procurement Board Report - October 16, 2023 - December 15, 2023

PO Date	Supplier Name	Line #	Description	Quantity	Line Unit Price	Total Line Price	Total PO Amount	Department	Last Approver	Last Approver Title	Approval Date
10/16/2023	Adnanotek Corporation	1	Multi-Technique Deposition System EBS-300UHV	1	390,000.00	390,000.00	390,000.00	VP for Research & Economic Development Office	Chitnis, Parag	Vice President/Professor, Research & Economic Development	10/16/2023
10/18/2023	e-obs GmbH	2	Shipping	1	226.66	226.66		Ecosystem Science & Management	Boyles, Victoria	Dir, Business Operations	10/18/2023
10/18/2023	e-obs GmbH	1	GPS-logger (Bird Solar 15g) for scientific research	60	1,030.53	61,831.80	62,058.46	Ecosystem Science & Management	Boyles, Victoria	Dir, Business Operations	10/18/2023
10/18/2023	Hydrocarbon InSight LLC	1	Hydrocarbon InSight - Contract Geology for Hertzog Draw pilot project	50000	1.00	50,000.00	50,000.00	Enhanced Oil Recovery Institute	Ferrell, Rachel	Dir, Business Operations	10/18/2023
10/19/2023	Thermo Electron North America LLC	1	Neptune Plus Bundle 7, Dual RPQ Nuclear; Unity Essential Support Plan-APG-Mass SP	1	26,796.38	26,796.38		Geology & Geophysics	Miller, Jamison	Dir, Business Operations	10/19/2023
10/19/2023	Thermo Electron North America LLC	1	Neptune Plus Bundle 7, Dual RPQ Nuclear; Unity Essential Support Plan-APG-Mass SP	1	10,000.00	10,000.00		VP for Research & Economic Development Office	Miller, Jamison	Dir, Business Operations	10/19/2023
10/19/2023	Thermo Electron North America LLC	1	Neptune Plus Bundle 7, Dual RPQ Nuclear; Unity Essential Support Plan-APG-Mass SP	1	26,796.37	26,796.37	63,592.75	Geology & Geophysics	Miller, Jamison	Dir, Business Operations	10/19/2023
10/19/2023	CDW Government, Inc.	1	Juniper Networks direct attach cable 8 ft	10	366.00	3,660.00		AVP for Research Development Office	Miller, Jamison	Dir, Business Operations	10/19/2023
10/19/2023	CDW Government, Inc.	2	Juniper QFX5220 1U 32x 400GbE Switch with AC PSU	2	25,380.00	50,760.00		AVP for Research Development Office	Miller, Jamison	Dir, Business Operations	10/19/2023
10/19/2023	CDW Government, Inc.	3	JUNIPER 10M 400GE QSFP56GE AOC CABLE	4	1,802.00	7,208.00		AVP for Research Development Office	Miller, Jamison	Dir, Business Operations	10/19/2023
10/19/2023	CDW Government, Inc.	4	Juniper Networks Care Next Day Delivery extended service agreement 1 ve	2	11,565.00	23,130.00	84,758.00	AVP for Research Development Office	Miller, Jamison	Dir, Business Operations	10/19/2023
10/20/2023	Made Safe in Wyoming dba Cyber Wyoming	1	Cyber Pilot Program: Made Sage Program License Agreement	1	245,120.00	245,120.00	245,120.00	VP for Research & Economic Development Office	Chitnis, Parag	Vice President/Professor, Research & Economic Development	10/20/2023
10/24/2023	Y6 Feeders	1	Y6 Feeders - Feed and care of Steer for Cowboy Joe Club Steer A Year Program (SAY-8104-4650)	1	160,000.00	160,000.00	160,000.00	Cowboy Joe Club	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	10/24/2023
10/24/2023	Cambridge Computer Services, Inc.	2	VAST Software Subscription and Services Quote 132388	1	1,046,629.28	1,046,629.28		AVP for Research Development Office	Seidel, Ed	President	10/24/2023
10/24/2023	Cambridge Computer Services, Inc.	1	Hardware- JRB - 2023-48 VAST Storage System, freight, Installation Quote 132388	1	953,366.50	953,366.50	1,999,995.78	AVP for Research Development Office	Seidel, Ed	President	10/24/2023
10/24/2023	Slate Group	1	Printing & postage for UW Student Recruitment & Admissions Materials & Building wrap replacement for UW stadium	1	32,118.41	32,118.41		AVP of Enrollment Management	Baldwin, Chad	Assoc VP, Comm&Mktg	10/18/2023
10/24/2023	Slate Group	1	Printing & postage for UW Student Recruitment & Admissions Materials & Building wrap replacement for UW stadium	1	22,242.06	22,242.06		Institutional Marketing	Baldwin, Chad	Assoc VP, Comm&Mktg	10/18/2023
10/24/2023	Slate Group	1	Printing & postage for UW Student Recruitment & Admissions Materials & Building wrap replacement for UW stadium	1	5,971.19	5,971.19	60,331.66	Institutional Marketing	Baldwin, Chad	Assoc VP, Comm&Mktg	10/18/2023
10/24/2023	EBSCO Information Services	2	Institutional memberships for the purpose of receiving a single title electronic subscription to a journal/serial for the library collection	1	928.74	928.74		Libraries Resource Discovery & Management	Seidel, Ed	President	10/22/2023
10/24/2023	EBSCO Information Services	1	Institutional memberships for the purpose of receiving a single title print subscription to a journal/serial for the library collection	1	2,611.38	2,611.38		Libraries Resource Discovery & Management	Seidel, Ed	President	10/22/2023
10/24/2023	EBSCO Information Services	9	Subscriptions to single title print journals and serials for the Hebard collection Chisum	1	466.30	466.30		Libraries Deans Office	Seidel, Ed	President	10/22/2023
10/24/2023	EBSCO Information Services	3	Institutional memberships for the purpose of receiving a single title print subscription to a journal/serial for the Hebard collection Chisum	1	454.28	454.28		Libraries Deans Office	Seidel, Ed	President	10/22/2023
10/24/2023	EBSCO Information Services	10	Annual content fees for access to e-resource subscriptions for the library collection	1	2,313.00	2,313.00		Libraries Resource Discovery & Management	Seidel, Ed	President	10/22/2023
10/24/2023	EBSCO Information Services	5	Subscriptions to databases for the library collection	1	471,903.00	471,903.00		Libraries Resource Discovery & Management	Seidel, Ed	President	10/22/2023
10/24/2023	EBSCO Information Services	6	Subscriptions to electronic journal packages for the library collection	1	1,485,020.17	1,485,020.17		Libraries Resource Discovery & Management	Seidel, Ed	President	10/22/2023
10/24/2023	EBSCO Information Services	7	Subscriptions to single title electronic journals and serials for the library collection	1	361,001.96	361,001.96		Libraries Resource Discovery & Management	Seidel, Ed	President	10/22/2023
10/24/2023	EBSCO Information Services	8	Subscriptions to single title print journals and serials for the library collection	1	26,255.70	26,255.70		Libraries Resource Discovery & Management	Seidel, Ed	President	10/22/2023
10/24/2023	EBSCO Information Services	4	Institutional membership for the purpose of receiving a subscription to an electronic journal package for the library collection	1	8,730.16	8,730.16	2,359,684.69	Libraries Resource Discovery & Management	Seidel, Ed	President	10/22/2023*
10/25/2023	Masek Golf Car Company	1	YAMAHA QUIETTECH 2024 MODEL LEASE (55 CARS @ \$963.00 PER CAR) NOVEMBER 2023 - NOVEMBER 2024	1	52,965.00	52,965.00	52,965.00	Jacoby Golf Course	Bryant, Darcy	Deputy Director, Business Serv	10/19/2023
10/25/2023	Peak Promotions	1	Cent\$ible Nutrition Program - Education Reinforcement Items	1	53,450.00	53,450.00	53,450.00	UW Extension	Boyles, Victoria	Dir, Business Operations	10/23/2023
10/27/2023	Photosynq Inc	1	Phenotype Instrumentation and Greenhouse Imaging System	1	705,500.00	705,500.00	705,500.00	Facilities Engineering	Mai, William	Vice President, Campus Operations	10/27/2023
10/27/2023	Pentamix Security	1	Pentamix Security- Juniper Purchase	1	97,320.10	97,320.10	97,320.10	Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/27/2023
10/31/2023	Cambridge Computer Services, Inc.	1	S74G-2U Grace Hopper MGX Quanta: S74G-2U Quote 133252	1	30,365.75	30,365.75		Advanced Research Computing Center	Miller, Jamison	Dir, Business Operations	10/31/2023
10/31/2023	Cambridge Computer Services, Inc.	2	S74G-2U Grace Hopper MGX Quanta: S74G-2U Quote 133252	1	30,365.75	30,365.75	60,731.50	Advanced Research Computing Center	Miller, Jamison	Dir, Business Operations	10/31/2023
11/02/2023	Native Range Capture Services Inc.	1	Capture services for Dr. Monteith.	1	62,346.50	62,346.50	111,865.50	Haub School of Environment & Natural Resources	Koprowski, John	Professor/Dean/Wyo Excellence Chair	11/02/2023
11/02/2023	Ott HydroMet Corp	5	Freight	1	1,868.67	1,868.67		Ecosystem Science & Management	Boyles, Victoria	Dir, Business Operations	11/02/2023
11/02/2023	Ott HydroMet Corp	4	OTT Pluvio 2 installation cable	60	22.60	1,356.00		Ecosystem Science & Management	Boyles, Victoria	Dir, Business Operations	11/02/2023
11/02/2023	Ott HydroMet Corp	3	OTT PWS150 wind shield for install height 1.5M	8	1,474.98	11,799.84		Ecosystem Science & Management	Boyles, Victoria	Dir, Business Operations	11/02/2023
11/02/2023	Ott HydroMet Corp	1	OTT Pluvio 2 400, 750MM, SDI-12 RS-485, impulse	8	5,214.51	41,716.08		Ecosystem Science & Management	Boyles, Victoria	Dir, Business Operations	11/02/2023
11/02/2023	Ott HydroMet Corp	2	OTT Pluvio 2 400 INST Tube 4" w/base plate-1.5M	8	549.44	4,395.52	61,136.11	Ecosystem Science & Management	Boyles, Victoria	Dir, Business Operations	11/02/2023
11/02/2023	Albany County Treasurer	5	2023 PROPERTY TAXES - 556 N 13TH	1	1,730.61	1,730.61		Real Estate Operations	Bryant, Darcy	Deputy Director, Business Serv	11/02/2023
11/02/2023	Albany County Treasurer	4	2023 PROPERTY TAXES - 563 N 14TH	1	1,946.04	1,946.04		Real Estate Operations	Bryant, Darcy	Deputy Director, Business Serv	11/02/2023
11/02/2023	Albany County Treasurer	6	2023 PROPERTY TAXES - 553 N 11TH	1	1,798.73	1,798.73		Real Estate Operations	Bryant, Darcy	Deputy Director, Business Serv	11/02/2023
11/02/2023	Albany County Treasurer	3	2023 PROPERTY TAXES - 1120 IVINSON	1	3,157.17	3,157.17		Real Estate Operations	Bryant, Darcy	Deputy Director, Business Serv	11/02/2023
11/02/2023	Albany County Treasurer	7	2023 PROPERTY TAXES - 355 N 5TH	1	2,112.04	2,112.04		Real Estate Operations	Bryant, Darcy	Deputy Director, Business Serv	11/02/2023
11/02/2023	Albany County Treasurer	1	2023 PROPERTY TAXES - 567 N 14TH	1	2,517.41	2,517.41		Real Estate Operations	Bryant, Darcy	Deputy Director, Business Serv	11/02/2023

11/02/2023	Albany County Treasurer	2	2023 PROPERTY TAXES - 2710 HARNEY ST	1	63,997.49	63,997.49	77,259.49	Real Estate Operations	Bryant, Darcy	Deputy Director, Business Serv	11/02/2023
11/06/2023	Li-Cor, Inc.	1	LI-6800F. Portable photosynthesis system with fluorometer	1	64,050.00	64,050.00	64,050.00	VP for Research & Economic Development Office	Miller, Jamison	Dir, Business Operations	11/06/2023
11/06/2023	Core Laboratories LP	1	Core Labs - Coring and analysis of the obtained core	300000	1.00	300,000.00	300,000.00	Enhanced Oil Recovery Institute	Krutka, Holly	Executive Director	11/06/2023
11/09/2023	Engineered Products, LLC	1	12X12X33 15/45 MEDIA GLASDEK #110 PIECES CUT TO SIZE 12"X12"X33"	1	20,000.00	20,000.00		Facilities Management	Bryant, Darcy	Deputy Director, Business Serv	11/09/2023
11/09/2023	Engineered Products, LLC	2	12X12X37 15/45 MEDIA GLASDEK #22 PIECES CUT TO SIZE 12"X12"X37"	1	5,400.00	5,400.00		Facilities Management	Bryant, Darcy	Deputy Director, Business Serv	11/09/2023
11/09/2023	Engineered Products, LLC	3	12X12X64.5 15/45 MEDIA GLASDEK #22 PIECES CUT TO SIZE 12"X12"X64.5"	1	8,000.00	8,000.00		Facilities Management	Bryant, Darcy	Deputy Director, Business Serv	11/09/2023
11/09/2023	Engineered Products, LLC	4	12X12X36 15/45 MEDIA GLASDEK #44 PIECES CUT TO SIZE 12"X12"X36"	1	8,000.00	8,000.00		Facilities Management	Bryant, Darcy	Deputy Director, Business Serv	11/09/2023
11/09/2023	Engineered Products, LLC	6	12X12X34 15/45 MEDIA GLASDEK #66 PIECES CUT TO SIZE 12"X12"X34"	1	12,000.00	12,000.00		Facilities Management	Bryant, Darcy	Deputy Director, Business Serv	11/09/2023
11/09/2023	Engineered Products, LLC	5	12X12X63 15/45 MEDIA GLASDEK #22 PIECES CUT TO SIZE 12"X12"X63"	1	8,000.00	8,000.00	61,400.00	Facilities Management	Bryant, Darcy	Deputy Director, Business Serv	11/09/2023
11/14/2023	Brown Company	1	Compact track loader as specified in bid IFB JRB-2023-55	1	58,900.17	58,900.17		R&E Center SAREC	Boyles, Victoria	Dir, Business Operations	11/14/2023
11/14/2023	Brown Company	1	Compact track loader as specified in bid IFB JRB-2023-55	1	11,999.83	11,999.83	70,900.00	R&E Center SAREC	Boyles, Victoria	Dir, Business Operations	11/14/2023
11/16/2023	Douglas Budget	1	FY24 Branding Iron Publication Printing	1	78,000.00	78,000.00	78,000.00	Student Media	Steich, Kimberly	VP for Student Affairs	11/15/2023
11/17/2023	Renner Sports Surfaces	1	Resurfacing of UW Indoor Tennis Complex court surface, including stenciling of court names and Steamboat logos.	1	75,240.00	75,240.00	75,240.00	Intercollegiate Athletics Directors Office	Freeman, Samantha	Asst AD/Budgeting & Fin Mgmt	11/17/2023
11/17/2023	Slate Group	1	Printing, production, postage, and mailing services of student recruitment materials 2023-2024	1	100,000.00	100,000.00		Admissions	Benham-Deal, Tami	Senior Vice Provost/Professor	11/17/2023
11/17/2023	Slate Group	1	Printing, production, postage, and mailing services of student recruitment materials 2023-2024	1	100,000.00	100,000.00	200,000.00	Institutional Marketing	Benham-Deal, Tami	Senior Vice Provost/Professor	11/17/2023
11/17/2023	RANDY CURNOW BUICK GMC, INC	1	2023 Mercedes-Benz Van for UW Golf Team VIN: W1X8ND3Y5PT122648	1	134,900.00	134,900.00	134,900.00	Cowboy Joe Club	Whisenant, Matthew	Deputy Director	11/17/2023
11/20/2023	Native Range Capture Services Inc.	1	Native Range WRIR Dec 2023 Captures, helicopter and crew per diem 55 MD	1	35,002.00	35,002.00		Wyoming Coop Unit	Simoneau, Vanessa	Grant Coordinator	11/20/2023
11/20/2023	Native Range Capture Services Inc.	1	Native Range WRIR Dec 2023 Captures, helicopter and crew per diem 55 MD	1	10,000.00	10,000.00		Wyoming Coop Unit	Simoneau, Vanessa	Grant Coordinator	11/20/2023
11/20/2023	Native Range Capture Services Inc.	1	Native Range WRIR Dec 2023 Captures, helicopter and crew per diem 55 MD	1	7,350.00	7,350.00		Wyoming Coop Unit	Simoneau, Vanessa	Grant Coordinator	11/20/2023
11/20/2023	Native Range Capture Services Inc.	1	Native Range WRIR Dec 2023 Captures, helicopter and crew per diem 55 MD	1	10,000.00	10,000.00	62,352.00	Wyoming Coop Unit	Simoneau, Vanessa	Grant Coordinator	11/20/2023
11/20/2023	Casper College	1	FY23 CASPER COLLEGE UNION O&M REIMBURSEMENT	1	302,883.03	302,883.03	302,883.03	Real Estate Operations	Samp, Michael	Assoc VP for Univ Operations	11/17/2023
11/27/2023	Cardiff University	1	Co-development course description, syllabi and materials for 8 courses	1	60,000.00	60,000.00	60,000.00	VP for Research & Economic Development Office	Miller, Jamison	Dir, Business Operations	11/27/2023
11/27/2023	Presidio Networked Solutions LLC	1	Presidio- Juniper support contract	1	72,950.86	72,950.86	72,950.86	Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	11/27/2023
11/28/2023	TripC LLC DBA UNITE	1	Contract with Unite 77800.00 due at signing.	1	98,240.00	98,240.00	98,240.00	Industry & Strategic Partnerships Office	Miller, Jamison	Dir, Business Operations	11/27/2023
11/28/2023	Cytek Biosciences, Inc.	3	Cytek 1Yr SVC Cytek NL 3000 V/B/R w/Loader - Premium (RUO and CLC) 1 year warranty and then 5 years of service for total of 6 years.	1	72,333.00	72,333.00		College of Agriculture, Life Sciences & Natural Resources Deans Office	Rasco, Barbara	Dean/Professor	11/28/2023
11/28/2023	Cytek Biosciences, Inc.	1	Cytek Northern Lights 3000 V/B/R with 1-year on-site warranty and Cytek Automated Sample Loader (ASL) 2.0	1	98,455.21	98,455.21		College of Agriculture, Life Sciences & Natural Resources Deans Office	Rasco, Barbara	Dean/Professor	11/28/2023
11/28/2023	Cytek Biosciences, Inc.	2	Cytek Basic Start-up Kit (beads only). Virtual Kit.	1	320.00	320.00	171,108.21	College of Agriculture, Life Sciences & Natural Resources Deans Office	Rasco, Barbara	Dean/Professor	11/28/2023
11/30/2023	TransLoc Inc.	1	Transloc monthly service for bus Oct 2023-Sept 2024	1	46,910.40	46,910.40		Transportation Services	Kunkel, Paul	Director, Transportation Services	11/30/2023
11/30/2023	TransLoc Inc.	1	Transloc monthly service for bus Oct 2023-Sept 2024	1	11,727.60	11,727.60	58,638.00	Transportation Services	Kunkel, Paul	Director, Transportation Services	11/30/2023
11/30/2023	University of Houston	1	Installment 1 of 1 for Law Center Loaned Faculty Agreement for Professor Douglas K. Moll to teach at University of Wyoming College of Law for the Fall 2023 Semester.	1	137,936.00	137,936.00	137,936.00	College of Law Academic Depts	Alexander, Klinton	Dean/Professor	11/30/2023
12/01/2023	CDW Government, Inc.	3	JUNIPER 30M QSFP256 DD QSFP56 AOC	5	2,634.06	13,170.30		AVP for Research Development Office	Miller, Jamison	Dir, Business Operations	12/01/2023
12/01/2023	CDW Government, Inc.	1	JUNIPER 7M QSFP256 DD QSFP56 AOC	13	2,443.69	31,767.97		AVP for Research Development Office	Miller, Jamison	Dir, Business Operations	12/01/2023
12/01/2023	CDW Government, Inc.	2	JUNIPER 10M QSFP256 DD QSFP56 AOC	31	2,470.66	76,590.46	121,528.73	AVP for Research Development Office	Miller, Jamison	Dir, Business Operations	12/01/2023
12/04/2023	Rocky Mountain Power	1	ROCKY MOUNTAIN POWER RELOCATE FACILITIES UNDERGROUND 15TH ST.	1	627,617.00	627,617.00	627,617.00	Facilities Management	Mai, William	Vice President, Campus Operations	12/01/2023
12/04/2023	Teledyne Instruments, Inc.	1	IRIDIA 500 Laser Ablation System	1	251,980.36	251,980.36	251,980.36	VP for Research & Economic Development Office	Chitnis, Parag	Vice President/Professor, Research & Economic Development	12/04/2023
12/04/2023	EAM Advertising LLC	1	UW Student Recruitment Display Ad in DIA Airport 2023-2024	1	95,447.00	95,447.00	95,447.00	Institutional Marketing	Baldwin, Chad	Assoc VP, Comm&Mktg	12/04/2023
12/07/2023	Learfield Sub, LLC DBA Paciolan LLC	1	Paciolan monthly fees per contract. Amount based on estimated spend of \$150,000. Will replace P383435 w/ updated estimated annual spend adjustment (\$150,000 less ~\$80,000 paid on P383435).	1	70,000.00	70,000.00	70,000.00	Ticket Office	Freeman, Samantha	Asst AD/Budgeting & Fin Mgmt	12/06/2023
12/07/2023	STM Charters, Inc	1	Air Charter Services for Wyoming Football travel to 2023 Arizona Bowl	1	160,750.00	160,750.00	160,750.00	Special Events Athletics	Freeman, Samantha	Asst AD/Budgeting & Fin Mgmt	12/07/2023
12/12/2023	Applied Physics Systems	1	755 SRM with vertical 1 orientation, 855 Rapid System with AF / ARM / IRM subsystems and Model 520 flugtage, Shipping and Training	1	658,175.00	658,175.00	658,175.00	VP for Research & Economic Development Office	Chitnis, Parag	Vice President/Professor, Research & Economic Development	12/12/2023
12/12/2023	Ott HydroMet Corp	2	LAS MKII Large Aperture Scinti	1	25,135.00	25,135.00		Ecosystem Science & Management	Boyles, Victoria	Dir, Business Operations	12/12/2023
12/12/2023	Ott HydroMet Corp	1	LAS MKII Large Aperture Scinti	1	25,135.00	25,135.00	50,270.00	Ecosystem Science & Management	Boyles, Victoria	Dir, Business Operations	12/12/2023
12/13/2023	Tabaran Alexandru-Flaviu	1	12301TabaranNov23 Digital Pathologist Service Agreement 1/01/2023-6/30/2024	1	145,000.00	145,000.00	145,000.00	Wyoming State Veterinary Laboratory	Rasco, Barbara	Dean/Professor	12/13/2023
12/14/2023	Oracle America, Inc.	1	ORACLE ANALYTICS 8/23/2023-8/22/2024 CPQ-218757	1	250,707.00	250,707.00	250,707.00	Applications & Customer Relations	Aylward, Robert	Vice President	12/14/2023
12/14/2023	Dell Marketing LP	1	Dell- Red Hat Subscription 2024-2025	0.5	80,336.77	40,168.39		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	12/14/2023
12/14/2023	Dell Marketing LP	1	Dell- Red Hat Subscription 2024-2025	0.5	80,336.77	40,168.39	80,336.77	Advanced Research Computing Center	Christensen, Margaux	Exec Administrator, IT Business Services	12/14/2023
12/14/2023	Gray Associates Inc	1	Gray PES Services	1	61,050.00	61,050.00	61,050.00	Office of Online & Continuing Education	Stark, Stephanie	Dir, Business Operations	12/13/2023
12/14/2023	Ace Express Coaches, LLC	1	Bus Transportation for UW Band & Cheer to Arizona Bowl	1	60,000.00	60,000.00	60,000.00	Special Events Athletics	Freeman, Samantha	Asst AD/Budgeting & Fin Mgmt	12/14/2023
12/15/2023	WorldStrides	1	Payment for travel of the UW Symphony to Europe during Spring break 2024	1	45,255.00	45,255.00		Music	Benham-Deal, Tami	Senior Vice Provost/Professor	12/15/2023
12/15/2023	WorldStrides	1	Payment for travel of the UW Symphony to Europe during Spring break 2024	1	79,650.00	79,650.00	124,905.00	Education Abroad	Benham-Deal, Tami	Senior Vice Provost/Professor	12/15/2023

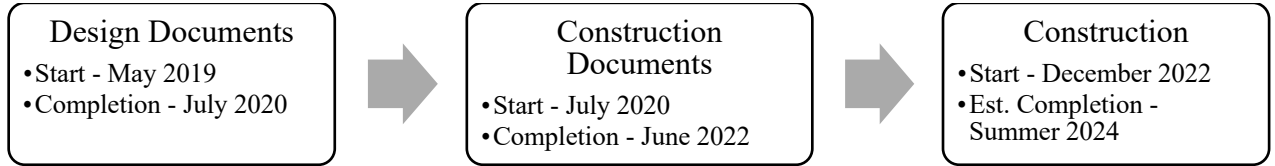
AGENDA ITEM TITLE: Capital Construction Report, Mai

Capital Construction Progress Report as of December 14, 2023

PROJECTS IN CONSTRUCTION

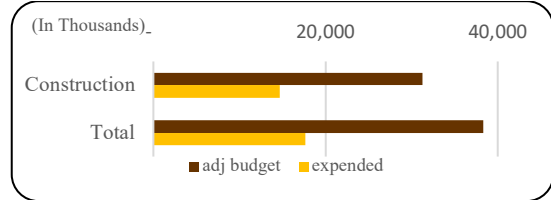
<https://www.uwyo.edu/administration/planning-and-construction/>

1. College of Law Expansion & Renovation



Contractor: FCI Constructors of Wyoming, LLC
 BOT approval – July 15, 2022

Architect: By Architectural Means
 BOT approval – March 28, 2019



Original Project Budget \$30,000,000 (a)
 Adjusted Project Budget \$38,300,000 (d)

Table 1.1: Funding- College of Law Expansion & Renovation

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
UW Foundation – donor funds	3,800,000.00	3,800,000.00
State Appropriation 2021-2022 (SF0067, Enrolled Act No. 19)	15,000,000.00	15,000,000.00
Major Maintenance (2023-2024)	11,200,000.00	19,200,000.00
UW College of Law Reserves		300,000.00
Total Project	30,000,000.00	38,300,000.00

Original budget was \$30,000,000 and was increased to \$38,000,000 because of inflation and increased utility scope. Additional \$300,000 approved to replace carpet in the Law Library.

Table 1.2: Project Expenses- College of Law Expansion & Renovation

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	18,980	7,506	4,776	31,262	(14,704)	(16,558)	-
Contingency	6,297	754	(5,166)	1,885	-	-	1,885
Design	1,759	(25)	737	2,471	(1,701)	(322)	448
FF&E	1,154	45	(424)	775	(42)	(27)	706
Tech	714	(50)	(379)	285	(3)	-	282
Admin	1,096	70	456	1,622	(1,229)	(226)	167
Total	30,000	8,300	-	38,300	(17,679)	(17,133)	3,488

Project History Summary: College of Law Expansion & Renovation

Pre-Construction	\$ 36,400
Guaranteed Maximum Price (Amendment #1)	\$30,657,013
Change orders	\$ 568,666
TOTAL	\$31,262,079

Contract Substantial Completion Date May 8, 2024

Project History Detail: College of Law Expansion & Renovation

Statement of Contract Amount

Original contract	Pre-construction	\$36,400
Amendment #1	Guaranteed Maximum Price	30,657,013
Change Order #1	Miscellaneous data/telecom revisions	21,562
Change Order #2	Drywall and related repairs following selective demolition	19,085
Change Order #3	Replace carpet in vestibules, install window film in room 185 and paint vestibules and corridor door frames	6,825
Change Order #4	Revisions to construction of concrete mechanical tunnel	41,545
Change Order #5	Added micropiles to replace existing drilled pier	18,603
Change Order #6	Added library interior finishes	461,046
Adj contract		\$31,262,079

Project Update: College of Law Expansion & Renovation

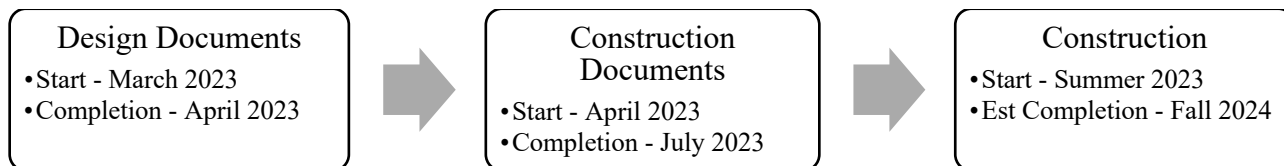
Work Completed/In Progress:
<ul style="list-style-type: none"> • Foundations on the west side are complete. • Roof activities are underway. • Structural steel install complete. • Foundation backfill is complete. • Level 2 mechanical, electrical and plumbing (MEP) rough-in is underway in the addition. • New tunnel install is complete. • Slab on grade is complete. Slab on deck is complete. • Exterior framing is complete. • Mechanical room install is in progress. Heat exchanger is installed and temporary building heat is operational.

Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> • None at this time

Work Planned for Upcoming Month:

- New interior finishes and mechanical, electrical and plumbing (MEP) on L-2 addition.
- Mechanical room upgrades.
- Interior design coordination for furniture package.
- Vapor barrier and insulation completion.
- Exterior stone install.
- Roof top unit/air handler unit delivery and install.

2. Science Initiative Shelled Space Build-Out



Contractor: GE Johnson Construction Wyoming
 BOT approval – May 23, 2023

Architect: GSG Architecture
 BOT approval – March 25, 2023

Original Project Budget \$12,250,000 (a)
 Adjusted Project Budget \$12,250,000 (d)

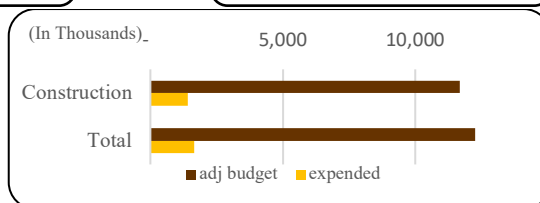


Table 2.1: Funding- Science Initiative Shelled Space Build-Out

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
State Appropriation 2023, SF0146, Enrolled Act 84, Section 067	12,250,000	12,250,000
Total Project	12,250,000	12,250,000

Table 2.2: Project Expenses- Science Initiative Shelled Space Build-Out

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	11,669	-	-	11,669	(1,420)	(10,249)	-
Contingency	84	-	-	84	-	-	84
Design	250	-	-	250	(183)	(67)	-
FF&E	110	-	-	110	-	-	110
Tech	13	-	-	13	-	-	13
Admin	124	-	-	124	(56)	-	68
Total	12,250	-	-	12,250	(1,659)	(10,316)	275

Project History Summary: Science Initiative Shelled Space Build-Out

Construction contract \$11,668,747.00
 Contract Substantial Completion Date August 1, 2024

Project History Detail: Science Initiative Shelled Space Build-Out

Statement of Contract Amount (GE Johnson)

Original contract	Change order #22 (GE Johnson Science Initiative)	\$11,668,747
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Project Update: Science Initiative Shelled Space Build-Out

Work Completed/In Progress:

- Construction drawings are 100% complete.
- Early long lead time procurement is in progress.
- Mechanical and plumbing package is under review and final procurement activities are in process.
- Select demolition is complete.
- Framing layout and building model coordination is in process.
- Under slab and overhead plumbing and mechanical work is in progress.
- Electrical rough-in is in progress.
- Wall framing is in progress.

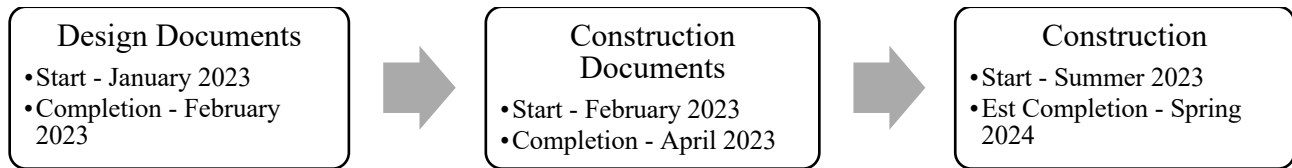
Issues Encountered with Proposed Resolution for Each:

- None at this time.

Work Planned for Upcoming Month:

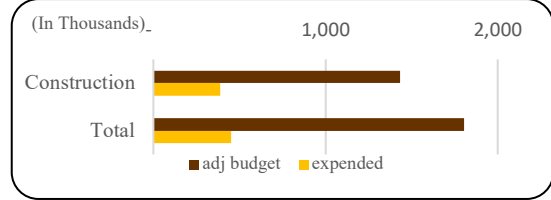
- Framing and mechanical, electrical and plumbing (MEP) rough-in.

3. Wyoming Union Retail Renovation: Chick-Fil-A



Contractor: Arcon, Inc.
 BOT approval – January 27, 2023

Architect: Ronald K. Smith
 BOT approval – Not Applicable, less than \$50,000



Original Project Budget \$1,801,863 (a)
 Adjusted Project Budget \$1,801,863 (d)

Table 3.1: Funding- Wyoming Union Retail Renovation: Chick-Fil-A

Funding Sources:	Original Anticipated:	Actual:
UW – Housing Reserve (Not to Exceed)	2,250,000	1,801,863
Total Project	2,250,000	1,801,863

Original budget was \$2,250,000 and was decreased to \$1,801,863 because the GMP was lower than expected.

Table 3.2: Project Expenses- Wyoming Union Retail Renovation: Chick-Fil-A

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	1,431	-	-	1,431	(388)	(1,043)	-
Contingency	225	-	-	225	-	-	225
Design	56	-	-	56	(43)	(9)	4
FF&E	28	-	-	28	(15)	(4)	9
Tech	5	-	-	5	-	-	5
Admin	57	-	-	57	(6)	-	51
Total	1,802	-	-	1,802	(452)	(1,056)	294

Project History Summary: Wyoming Union Retail Renovation: Chick-Fil-A

Guaranteed Maximum Price	\$1,430,543
Contract Substantial Completion Date	March 24, 2024

Project History Detail: Wyoming Union Retail Renovation: Chick-Fil-A

Statement of Contract Amount (Arcon, Inc.)

Original contract	Pre-construction fees	\$14,900.00
Amendment #1	Guaranteed Maximum Price (includes Pre-con fees)	1,430,543.00
Adj contract		\$1,430,543.00

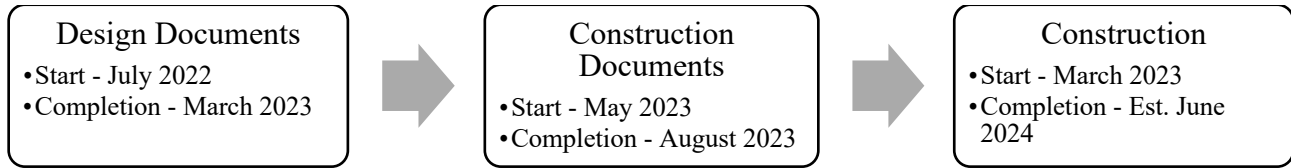
Project Update: Wyoming Union Retail Renovation: Chick-Fil-A

Work Completed/In Progress:
<ul style="list-style-type: none"> • Construction drawings are complete. • Contracting and public bidding is complete. • Submittals and long lead time procurement are in process. • Plumbing water connections have started. • Electrical feeder pathways are in process. • Electrical rough-in is complete. • Select demolition is complete. • All procurement activities are complete, long lead time items are built into completion schedule. • Wall framing and mechanical rough-in is in progress.

Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> • None at this time.

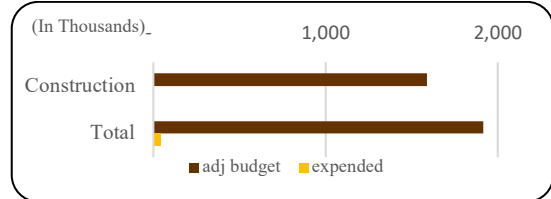
Work Planned for Upcoming Month:
<ul style="list-style-type: none"> • Framing completion. • Finish activities will commence.

4. Bus/Transit Fuel Facility



Contractor: Reiman Corporation
 BOT approval – September 21, 2023

Architect: Plan One Architects
 BOT approval - Not applicable, continuation from bus maintenance facility design services



Original Project Budget \$ 1,560,000 (a)
 Adjusted Project Budget \$ 1,915,000 (d)

Table 4.1: Funding- Bus/Transit Fuel Facility

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
WYDOT Grant	1,200,000.00	1,392,206.00
UW Transportation Services Reserve (cost share)	360,000.00	522,794.00
Total Project	1,560,000.00	1,915,000.00

Table 4.2: Project Expenses- Bus/Transit Fuel Facility

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	1,235	355	-	1,590	-	(1,590)	-
Contingency	185		-	185	-	-	185
Design	51	-	-	51	(37)	(14)	-
FF&E	-	-	-	-	-	-	-
Tech	62	-	-	62	-	-	62
Admin	27	-	-	27	(5)	-	22
Total	1,560	355	-	1,915	(42)	(1,604)	269

Project History Summary: Bus/Transit Fuel Facility

Guaranteed Maximum Price \$ 1,590,300
 Contract Substantial Completion Date June 30, 2024

Project History Detail: Bus/Transit Fuel Facility

Statement of Contract Amount

Original contract	Construction	\$1,590,300
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Project Update: Bus/Transit Fuel Facility

Work Completed/In Progress:

- Submittals and long lead time procurement items are in progress.

Issues Encountered with Proposed Resolution for Each:

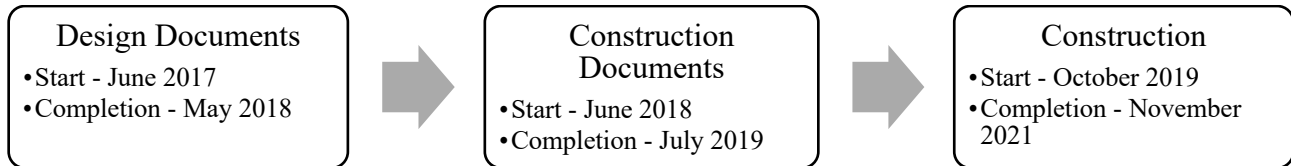
- None at this time.

Work Planned for Upcoming Month:

- Continue to review and approve submittals.
- Procurement of long lead time items.

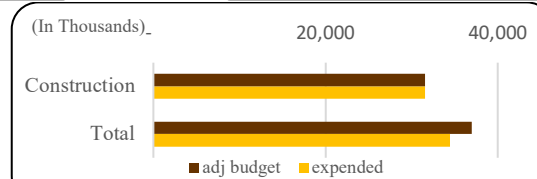
Utility Infrastructure

5. West Campus Satellite Energy Plant – Phase I



Contractor: GE Johnson Construction Wyoming
 BOT approval – July 13, 2018

Architect: GLHN Architects and Engineers, Inc.
 BOT approval - July 13, 2016



Original Project Budget \$ 36,931,109 (a)
 Adjusted Project Budget \$ 36,931,109 (d)

Table 5.1: Funding- West Campus Satellite Energy Plant- Phase I

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
Major Maintenance	18,000,000.00	22,000,000.00
EERB Project Reserve	12,314,336.00	12,612,600.00
SI Project Reserve	2,000,000.00	1,701,736.00
UW – Capital Reserves (BOT)	4,616,773.00	
UW – Housing bonds		616,773.00
Total Project	36,931,109.00	36,931,109.00

Table 5.2: Project Expenses- West Campus Satellite Energy Plant- Phase I

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	29,059		2,463	31,522	(31,522)	-	-
Contingency	4,188	(700)	(3,463)	25	-	-	25
Reserve		1,447	950	2,397		(2,397)	-
Design	2,623	(565)	(66)	1,992	(1,992)	-	-
FF&E	110	(50)	(18)	42	(42)	-	-
Tech	25	-	(12)	13	(13)	-	-
Admin	926	(132)	146	940	(849)	(51)	40
Total	36,931	-	-	36,931	(34,418)	(2,448)	65

Project History Summary: West Campus Satellite Energy Plant- Phase I

Guaranteed Maximum Price (Amendment #1 and #2)	\$ 29,058,549.00
<u>Amendments #3 and #4 and Change Orders #1, #2 & #3</u>	<u>\$ 2,463,839.82</u>
TOTAL	\$ 31,522,388.82

Contract Substantial Completion Date November 22, 2021

Project History Detail: West Campus Satellite Energy Plant- Phase I

Statement of Contract Amount

Original contract	Pre-construction fees	\$61,250
Amendment #1	Initial Guaranteed Maximum Price for Foundation and Utilities. (Includes pre-construction fees)	15,486,191
Amendment #2	Final Guaranteed Maximum Price; full project scope	13,572,358
Amendment #3	Utility extension and future boiler rough-in	82,297
Amendment #4	Heat exchangers, full heating conversion to surrounding buildings	2,348,254
Change order #1	Install curb and flood wall east of EERB for drainage mitigation; concrete paving	41,229
Change order #2	Install trench drain and valley pan east of EERB	41,228
Change order #3	Credit for final GMP	(49,168.18)
Adj contract		\$31,522,388.82

Project Update: West Campus Satellite Energy Plant- Phase I

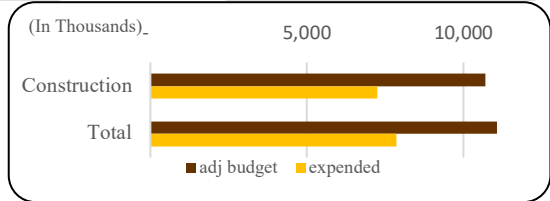
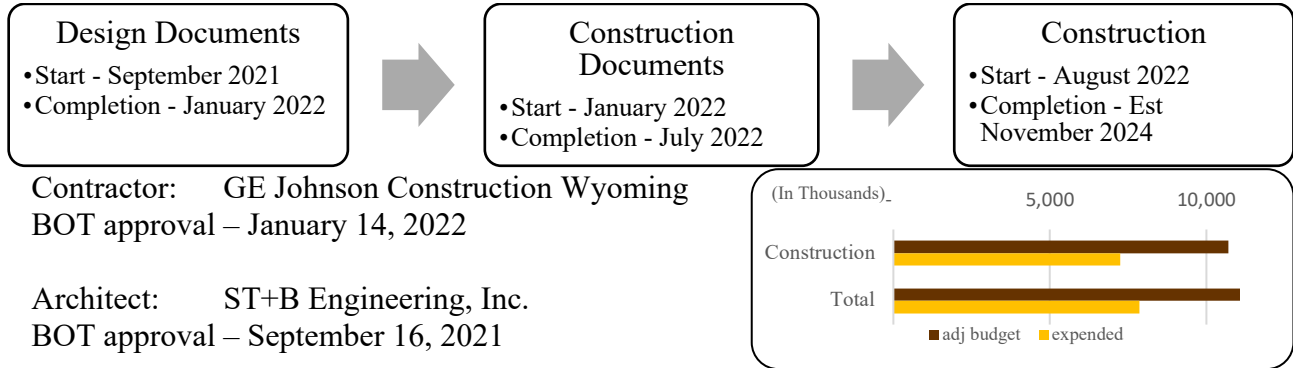
Work Completed/In Progress:
<ul style="list-style-type: none"> Substantial completion accepted on 11/22/2021.

Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> None at this time.

Work Planned for Upcoming Month:
<ul style="list-style-type: none"> None at this time.

6. a. West Campus Satellite Energy Plant – Phase II (Hot Water Expansion/Tunnel Upgrades)

b. 15th Street Willett to Ivinson – Upgrade West Campus Feed and Move Electrical Underground



Original Project Budget \$ 4,500,000 (a)
 Adjusted Project Budget \$ 11,716,038 (d)

Table 6.1a: Funding- West Campus Satellite Energy Plant- Phase II

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
Major Maintenance (2017-2018)		50,000.00
Major Maintenance (2021-2022)	4,500,000.00	5,716,038.00
WCSEP Phase I Reserve		950,000.00
Major Maintenance (2023-2024)		5,000,000.00
Total Project	4,500,000.00	11,716,038.00

The original anticipated project was intended to extend the main distribution lines from the WCEP to convert ten campus buildings from steam heating to hot water heating. The actual project covers all the originally anticipated work, replacement of failed condensate line on the north side of Prexy’s, replacement of a domestic water line on the south side of Prexy’s and improvements to the pedestrian corridor on 9th St. between Ivinson and Lewis streets. Additionally three storm water sections were replaced, communications directional bore was added and splicing to enable future tunnel demolition was also included.

Table 6.2a: Project Expenses- West Campus Satellite Energy Plant- Phase II

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	3,385	7,260	61	10,706	(7,235)	(3,471)	-
Contingency	338	(34)	(140)	164	-	-	164
Design	677	20	79	776	(595)	(181)	-
FF&E	-	-	-	-	-	-	-
Tech	-	-	-	-	-	-	-
Admin	100	(30)	-	70	(22)	(22)	26
Total	4,500	7,216	-	11,716	(7,852)	(3,674)	190

Contractor: GE Johnson Construction Wyoming
 BOT approval – January 14, 2022

Original Project Budget \$ 3,000,000 (a)
 Adjusted Project Budget \$ 2,600,000 (d)

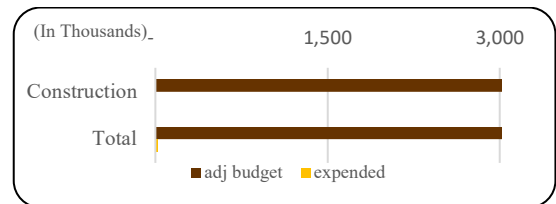


Table 6.1b: Funding- 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Overhead Electrical Underground

Funding Sources:	Original Anticipated:	Actual:
Major Maintenance (2023-2024)	3,000,000.00	2,600,000.00
Total Project	3,000,000.00	2,600,000.00

Table 6.2b: 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Electrical Underground

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	3,000	(400)	(1,167)	1,433	-	(1,433)	-
Contingency	-	-	-	-	-	-	-
Design	-	-	-	-	-	-	-
FF&E	-	-	-	-	-	-	-
Tech	-	-	-	-	-	-	-
Admin	-	-	1,167	1,167	(628)	-	539
Total	3,000	(400)	-	2,600	(628)	(1,433)	539

Project History Summary: West Campus Satellite Energy Plant – Phase II and 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Overhead Electrical Underground

Guaranteed Maximum Price	\$ 8,072,331
Change orders	\$ 4,066,410
TOTAL	\$12,138,741
Contract Substantial Completion Date	June 10, 2024

Project History Detail: West Campus Satellite Energy Plant – Phase II and 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Overhead Electrical Underground

Statement of Contract Amount

Original contract		
Amendment #1	Initial Guaranteed Maximum Price	\$950,000
Amendment #2	Final Guaranteed Maximum Price	8,072,331
Change order #1	Additional scope for 9 th Street corridor (lighting, expanded pedestrian access, bus stop improvements)	2,572,803
Change order #2	Replacement/Tie-In of North campus storm sewer (Classroom Building to Health Sciences)	13,104
Change order #3	Replacement/Tie-In of South campus storm sewer	11,662
Change order #4	Right-of-Way signage/striping on 9 th Street	23,421
Change order #5	Replacement/Re-Alignment of storm sewer (Old Main to Biological Sciences)	12,383
Change order #6 **5b. 15 th Street	15th Street Phase 0 IT/low voltage duct bank boring	1,433,037
Adj contract		\$12,138,741

Project Update: West Campus Satellite Energy Plant- Phase II and 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Overhead Electrical Underground

Work Completed/In Progress:
<ul style="list-style-type: none"> • Hot water piping is 100% complete on 9th Street, enhanced hardscapes are in place from Ivinson St. to Lewis St. • Classroom bus stop revisions complete. • Lighting upgrades are complete in the 9th St. corridor. • All distribution work in the campus core is complete for the season.

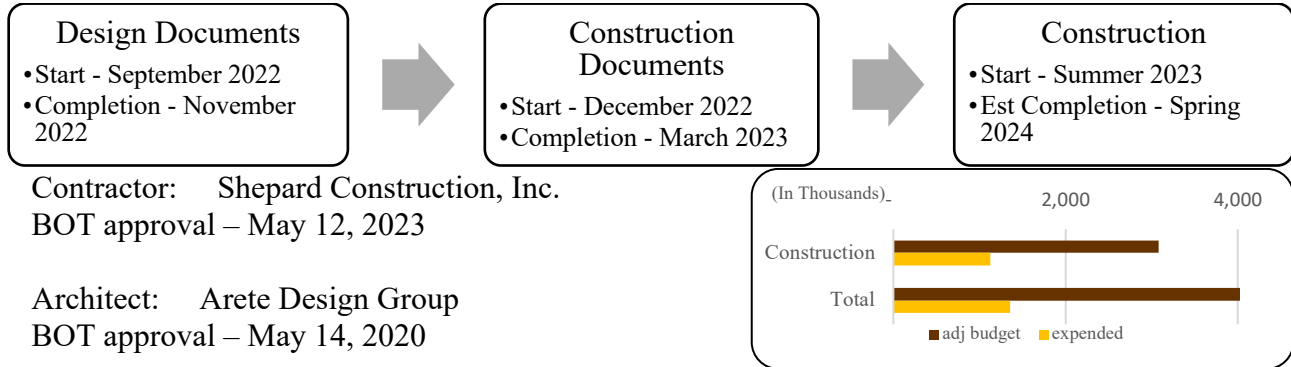
Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> • None at this time.

Work Planned for Upcoming Month:

- Communications vaults and duct bank work south of Merica Hall will be complete.
- Concrete placement for protection over a medium voltage duct bank south of Biological Sciences will commence.

Athletics Facilities

7. Athletics Maintenance Facility



Original Project Budget \$4,100,000 (a)
 Adjusted Project Budget \$4,100,000 (d)

Table 7.1: Funding- Athletics Maintenance Facility

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
State Appropriation 2021-2022, SF0067, Enrolled Act No. 19	2,050,000	2,050,000
UW Foundation – donor funds	2,050,000	2,050,000
Total Project	4,100,000	4,100,000

Table 7.2: Project Expenses- Athletics Maintenance Facility

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	3,078	-	-	3,078	(1,122)	(1,956)	-
Contingency	271	-	-	271	-	-	271
Design	260	-	-	260	(210)	(40)	10
FF&E	67	-	-	67	-	-	67
Tech	81	-	-	81	-	-	81
Admin	343	-	-	343	(22)	(38)	283
Total	4,100	-	-	4,100	(1,354)	(2,034)	712

Project History Summary: Athletics Maintenance Facility

Construction contract \$ 3,078,400.00
 Contract Substantial Completion Date April 1, 2024

Project History Detail: Athletics Maintenance Facility

Statement of Contract Amount (Shepard Construction)

Original contract	\$3,078,400
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Project Update: Athletics Maintenance Facility

Work Completed/In Progress:

- Underground utilities installation underway.
- Metal building erection complete.
- In-slab plumbing complete.
- Interior insulation and liner panel install underway.
- Overhead garage door install underway.

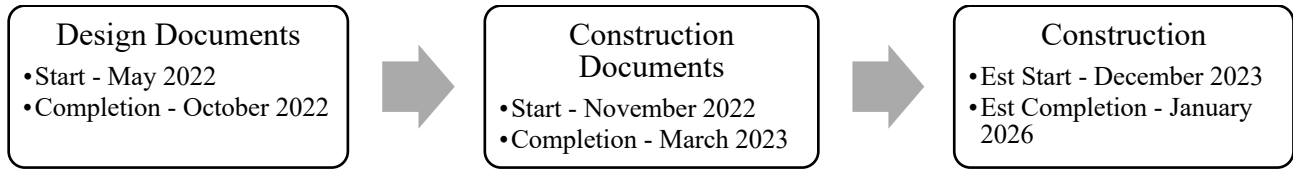
Issues Encountered with Proposed Resolution for Each:

- None at this time.

Work Planned for Upcoming Month:

- Complete underground utilities.
- Complete insulation and liner panel install.
- Complete overhead garage door install.
- Continue interior concrete slab pouring and flatwork.
- Start masonry walls and mezzanine erection.
- Begin interior framing and mechanical, electrical and plumbing (MEP) rough-in.

8. War Memorial Stadium: West Stands Renovation (Lower Stands, Concourse & Plaza, Loge & Press Boxes)



Contractor: GE Johnson Construction Wyoming
 BOT approval – July 15, 2022

Architect: Arete Design Group
 BOT approval – May 14, 2020

Original Project Budget \$84,900,000 (a)
 Adjusted Project Budget \$84,900,000 (d)

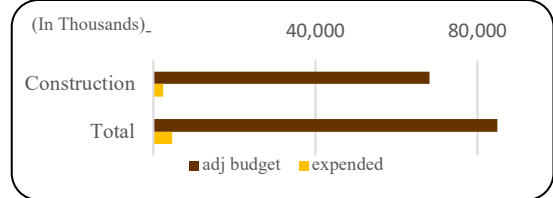


Table 8.1: Funding- War Memorial Stadium: West Stands Renovation

Funding Sources:	Original Anticipated:	Actual:
State Appropriation 2021, HB0121, Enrolled Act 73, Section 3 (a) (ii)	6,000,000	6,000,000
UW Foundation – donor funds	17,450,000	17,450,000
State Appropriation 2021-2022, SF0067, Enrolled Act No. 19	11,450,000	11,450,000
State Appropriation 2023, SF0146, Enrolled Act 84, Section 067	31,500,000	31,500,000
Major Maintenance (2023-2024)	6,800,000	6,800,000
UW Construction Reserve	11,700,000	11,700,000
Total Project	84,900,000	84,900,000

Table 8.2: Project Expenses- War Memorial Stadium: West Stands Renovation

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	68,013	127	-	68,140	(2,429)	(65,711)	-
Contingency	3,019	-	-	3,019	-	-	3,019
Design	3,348	-	-	3,348	(2,002)	(874)	472
FF&E	2,635	-	-	2,635	-	-	2,635
Tech	2,790	-	-	2,790	(1)	(42)	2,747
Admin	5,095	(127)	-	4,968	(200)	(30)	4,738
Total	84,900	-	-	84,900	(4,632)	(66,657)	13,611

Project History Summary: War Memorial Stadium: West Stands Renovation

Guaranteed Maximum Price	\$67,996,706.00
Contract Substantial Completion Date	January 23, 2026

Project History Detail: War Memorial Stadium: West Stands Renovation

Statement of Contract Amount (GE Johnson)

Original contract	Pre-construction fees	\$143,000
Amend#1	Guaranteed Maximum Price (excludes Pre-construction fees)	67,996,706
Adj contract		\$68,139,706

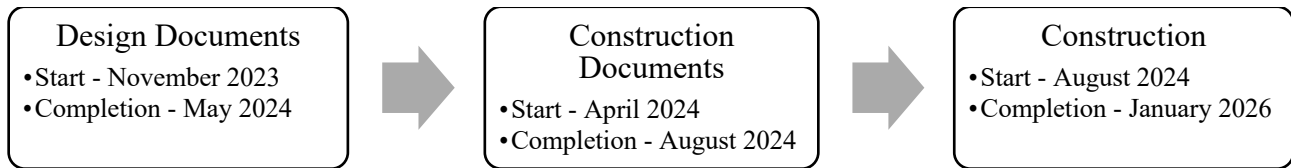
Project Update: War Memorial Stadium: West Stands Renovation

Work Completed/In Progress:
<ul style="list-style-type: none"> • Fiber re-route to East Stands complete. • Utility disconnects complete. • Lower stands demolition complete. • Mass excavation work underway. • Foundation and existing column reinforcement work underway.

Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> • None at this time.

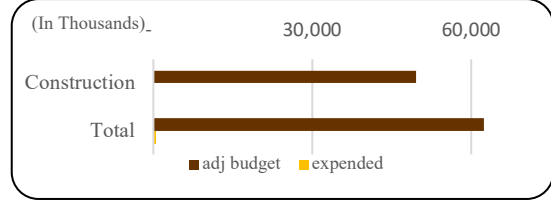
Work Planned for Upcoming Month:
<ul style="list-style-type: none"> • Complete mass excavation work. • Complete existing column reinforcement. • Continue foundation work. • Begin underground utility work. • Begin column and support concrete work. • Begin Club Level concrete pan deck install.

9. UW Natatorium



Contractor: GE Johnson.
 BOT approval – July 15, 2022

Architect: Arete Design Group
 BOT approval – May 14, 2020



Original Project Budget \$51,000,000 (a)
 Adjusted Project Budget \$62,335,714 (d)

Table 9.1: Funding- UW Natatorium

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
UW Foundation – donor funds	500,000	500,000
State Appropriation 2021-2022, SF0067, Enrolled Act No. 19	21,500,000	21,500,000
State Appropriation 2023, SF0146, Enrolled Act 84, Section 067	-	8,500,000
Major Maintenance (2023-2024)	9,500,000	9,500,000
Major Maintenance (2025-2026)	5,500,000	5,500,000
UW Construction Reserve	5,500,000	16,835,714
Total Project	42,500,000	62,335,714

Table 9.2: Project Expenses- UW Natatorium

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	25,399	24,169	-	49,568	-	(49,568)	-
Contingency	9,865	(4,389)	-	5,476	-	-	5,476
Design	3,158	(138)	-	3,020	(443)	(2,536)	41
FF&E	1,502	(412)	-	1,090	-	-	1,090
Tech	1,610	(1,010)	-	600	-	-	600
Admin	966	1,616	-	2,582	(24)	(10)	2,548
Total	42,500	19,836	-	62,336	(467)	(52,114)	9,755

Project History Summary: UW Natatorium

Pre-construction Fees	\$ 136,000.00
Guaranteed Maximum Price	\$ 49,737,537.00
Change orders	\$ (306,000.00)
TOTAL	\$ 49,567,537.00
Contract Substantial Completion Date	January 22, 2026

Project History Detail: UW Natatorium

Statement of Contract Amount (GE Johnson)

Original contract	Pre-construction fees	\$136,000
Amend#1	Guaranteed Maximum Price (excludes Pre-construction fees)	49,737,537
Change order #1	Deduct for audio visual (<i>pending - correction to amendment #1</i>)	(306,000)
Adj contract		\$49,567,537

Project Update: UW Natatorium

Work Completed/In Progress:
<ul style="list-style-type: none"> • Geotechnical testing. • City site plan review.

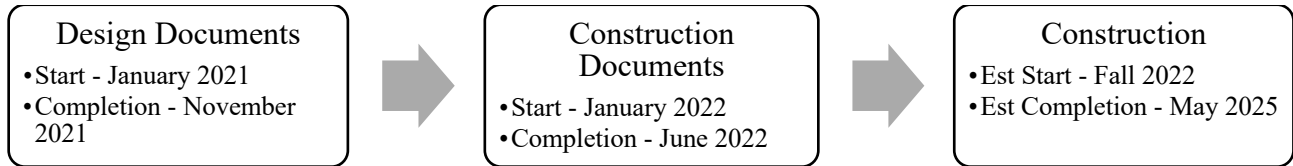
Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> • None at this time.

Work Planned for Upcoming Month:
<ul style="list-style-type: none"> • Geotechnical review. • City site plan review.

UW Housing Phase I
Housing Projects Summary:

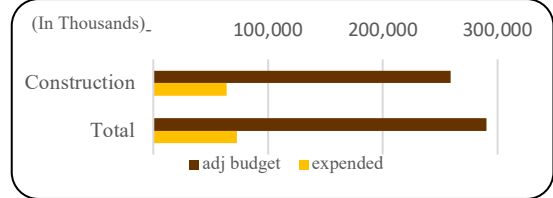
Project	Bonds	State Appropriation	Major Maintenance	Other (TBD)	Other (VP Admin)	Other (Grant)	Other (City of Laramie)	Total	Expenditures + Obligations	Remaining Balance
Student Housing & Dining (See Item #8)	\$ 204,227,116	\$ 80,000,000	\$ 4,398,396	\$ 1,683,379	\$ -	\$ -	\$ -	\$ 290,308,891	\$ 269,773,860	\$ 20,535,031
Iverson Parking Garage (Complete)	\$ 27,331,647		\$ 518,353	\$ -	\$ -	\$ -	\$ -	\$ 27,850,000	\$ 25,015,819	\$ 2,834,181
Wyoming Hall Utility Relocation (Complete)	\$ 13,374,017		\$ 10,712	\$ -	\$ -	\$ -	\$ 88,686	\$ 13,473,416	\$ 13,473,416	\$ -
Bus Garage/Fleet Relocation (Complete)	\$ 2,657,501		\$ -	\$ -	\$ 204,134	\$ 5,053,316	\$ -	\$ 7,914,950	\$ 7,914,950	\$ -
Wyoming Hall Deconstruction (Complete)	\$ 1,492,288		\$ 1,838	\$ -	\$ -	\$ -	\$ -	\$ 1,494,127	\$ 1,494,127	\$ -
West Campus Satellite Energy Plant (Complete)	\$ 616,773		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 616,773	\$ 616,773	\$ -
563 N. 14th Street Property Purchase (Complete)	\$ 300,659		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,659	\$ 300,659	\$ -
Fleet Rental Services (Complete)	\$ -		\$ -	\$ -	\$ 203,519	\$ -	\$ -	\$ 203,519	\$ 203,519	\$ -
TOTAL	\$ 250,000,000	\$ 80,000,000	\$ 4,929,300	\$ 1,683,379	\$ 407,653	\$ 5,053,316	\$ 88,686	\$ 342,162,334	\$ 318,793,122	\$ 23,369,213

10. UW Student Housing and Dining



Contractor: JE Dunn Construction
 BOT approval – June 10, 2020

Architect: alm2s
 BOT approval – July 18, 2019



Original Project Budget \$210,308,891 (a)
 Adjusted Project Budget \$290,308,891 (d)

Table 10.1: Funding- Student Housing and Dining

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
UW – Housing Reserve Account	8,681,675.00	
UW – Construction Reserve Account	2,143,000.00	
Other Anticipated Costs- Funding TBD	199,484,216.00	
UW – Housing Bonds and Other		210,308,891.00
State Appropriation 2023, SF0146, Enrolled Act 84, Section 067, Section 11(a)		80,000,000.00
Total Project	210,308,891.00	290,308,891.00

Original budget was \$210,308,891 and was increased to \$290,308,891 because of inflation.

Table 10.2: Project Expenses- Student Housing and Dining

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	170,597	88,070	352	259,019	(63,860)	(195,159)	-
Contingency	9,761	1,868	(359)	11,270	-	-	11,270
Design	9,231	315	-	9,546	(7,371)	(1,602)	573
FF&E	3,585	2,496	-	6,081	-	-	6,081
Tech	1,500	-	-	1,500	(3)	-	1,497
Admin	2,865	21	7	2,893	(1,294)	(485)	1,114
Total	197,539	92,770	-	290,309	(72,528)	(197,246)	20,535

Project History Summary: Student Housing and Dining

Pre-construction Fees	\$ 349,657
Guaranteed Maximum Price (Final with South Hall added)	\$258,317,088
<u>Change orders</u>	<u>\$ 352,396</u>
TOTAL	\$259,019,141
Contract Substantial Completion Date	May 20, 2025

Project History Detail: Student Housing and Dining

Statement of Contract Amount (JE Dunn)

Original contract	Pre-construction tees	\$349,657
Amendment #2	Initial Guaranteed Maximum Price (includes pre-construction)	27,961,914
Amendment #3	Final Guaranteed Maximum Price (excludes pre-construction)	170,246,987
Amendment #4	South Hall added to Guaranteed Maximum Price	88,070,101
Change Order #1	Asbestos abatement on existing steam lines	289,541
Change Order #2	Cut and cap existing underground hydronic lines	30,757
Change Order #3	Leak investigation and repair chilled water lines	32,098
Adj contract		\$259,019,141

Project Update: UW Student Housing and Dining

Work Completed/In Progress:
<ul style="list-style-type: none"> • Mass excavation, soil stabilization, and deep foundation work have all commenced. • Steel erection has started on the North Hall. • Slab on grade and slab on metal deck pours have commenced on the North Hall. • Utility work is complete under slab on the North Hall. • Sanitary sewer and domestic water line connections and new work are complete in 15th St. • South Hall foundation activities are complete. • Site storm sewer is complete on the west side, east side is in process and nearing completion. • Slab on grade is complete on South Hall. Structural steel and transfer slab formwork has commenced.

Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> • Additional sanitary sewer work is required by request of the City Engineer. Design is complete and a change order will be presented to the Board of Trustees for approval in January.

Work Planned for Upcoming Month:

- Continuation of site utilities.
- South Hall structural steel and transfer slab work.
- North Hall steel erection and podium slab shoring and pour.
- North Hall panelized framing.
- South Hall wall forming and concrete placement to continue.
- South Hall panelized framing.