AGENDA
RESEARCH AND ECONOMIC DEVELOPMENT COMMITTEE
November 16, 2023
1:00 – 3:00 pm
UW Conference Center TBD

Research Presentations

Wyoming Research Scholars and SI Outreach Specialists

1. **Quina Jeffs** PhD Candidate, Neuroscience Program
   “The Science Initiative Roadshow: Bringing Hands-on STEM to Wyoming K-12 Classrooms”

2. **Ashleigh Pilkerton** PhD Candidate, Program in Ecology, Department of Zoology and Physiology, Wyoming Cooperative Fish and Wildlife Research Unit
   “Exploring the Magic of Science through Science Initiative STEM Days”

3. **Maille Gray** Majors: Environmental Systems Science/Geography
   “Reconstructing global long term climate means using ERA5 data”

4. **Miles Milbrath** Major: Wildlife and Fisheries Biology and Management
   “Evaluating age and reproduction of California floater and Western pearlshell mussels.”

5. **Chelsea-Victoria Turner** Major: Plant Production and Protection
   “Searching for climate change refugia using herbaria data”

Regular Meeting:

1. Residency Consortium update
   Jacob Warren, Kevin Carman

2. RED Division updates.
   a. Industry and Strategic Partnership Office
   Curtis Biggs. Angela Ver Ploeg

3. Important of Research Parks for a Research University
   Parag 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:  
In every in-person meeting of the Research and Economic Development Committee of the UW Board of Trustees, research presentations in certain areas of UW’s research enterprise are included. For November’s meeting 2 SI Outreach specialists and 3 Wyoming Research Scholars will report on their current work.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:  
NA

WHY THIS ITEM IS BEFORE THE BOARD:  
Informational

ACTION REQUIRED AT THIS BOARD MEETING:  
NA

PROPOSED MOTION:  
NA

PRESIDENT’S RECOMMENDATION:  
NA

SESSION TYPE: ☒ 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:
At the September 2023 meeting of the Board of Trustees, the Board referred ongoing discussion of the residency consortium model to the Research and Economic Development Committee. At the November 2023 RED Committee meeting we will discuss progress that has been made toward creation of the consortium and discuss decision points that arise between submission of these materials and the Committee meeting. Chief among these will be discussion of the organizational model for the Consortium; namely, whether or not to establish a separate 501(c)(3) to oversee the consortium.

WHY THIS ITEM IS BEFORE THE BOARD:
At the September 2023 Board of Trustees Meeting, discussion of the residency consortium model was referred to the RED Committee.

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:  **RED Division Updates**, Chitnis, Biggs, Ver Ploeg

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:
At each in-person board meeting Vice President Chitnis presents a general update to the REDC on activities taking place within the division. This month this includes an update from the newly formed Industry and Strategic Partnership Office.

WHY THIS ITEM IS BEFORE THE BOARD:
Informational

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: Importance of Research Parks for a Research University, Chitnis

SESSION TYPE:
☐ Work Session
☒ Information Session
☐ Other
☐ [Committee of the Whole – Items for Approval]
☐ No [Regular Business]

APPLIES TO STRATEGIC GOALS:
☒ Yes (select below):
☐ Institutional Excellence
☒ Service to the State
☒ Financial Growth and Stability
☐ Student Success

Attachments are provided with the narrative.

EXECUTIVE SUMMARY:
Research Parks are key components of the innovation systems at vibrant research institutions. They include spaces for business incubation, growth, and corporate collaborations, thereby providing a dense innovation environment for accelerating translation of university research to commercial outcomes. Discussion will focus on reasons for pursuing the establishment of a research park at UW.

WHY THIS ITEM IS BEFORE THE BOARD:
Informational

ACTION REQUIRED AT THIS BOARD MEETING:
N/A. Information only.

PROPOSED MOTION:
N/A. Information only.

PRESIDENT’S RECOMMENDATION:
N/A. Information only.
The Science Initiative Roadshow: Bringing Hands-on STEM to Wyoming K-12 Classrooms

Quiana Jeffs
PhD Candidate, Neuroscience Program
Exploring the Magic of Science through Science Initiative STEM Days

Ashleigh Pilkerton
PhD Candidate, Program in Ecology, Department of Zoology and Physiology, Wyoming Cooperative Fish and Wildlife Research Unit
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Majors: Environmental Systems Science, Geography
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Miles Milbrath
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Chelsea-Victoria Turner
Major: Plant Production and Protection
Innovation Asset at Research Universities

• Technology Transfer Office
• Entrepreneurship Education and Training
• Startup Incubators
• Industry Partnerships
• Research Parks
• Venture Funds
Innovation Assets at UW

• Technology Transfer Office
• Entrepreneurship Education and Training
  • Center for Entrepreneurship and Innovation
  • College of Business Programs
  • College of Engineering Programs
  • IMPACT307 Programs
  • SBDC Programs
• Startup Incubators
  • IMPACT307
  • Leased space on campus
• Industry Partnerships
• Research Parks
• Venture Funds
Research Parks

• Physical environments that can generate, attract and retain science and technology companies and talent in alignment with sponsoring university.

• Stanford has the oldest research park, established in 1951.

• Key Impacts of Research Park
  • Accelerating innovation - opportunities to grow in a dense innovation environment
  • Attracting established corporations
  • Economic Impact

https://www.aurp.net/what-is-a-research-park
Research Park at South Dakota State University

- 2006 Brookings Innovation Center
- 2009 Seed Technology Laboratory
- 2012 Brookings Innovation Center expanded
- 2023 Poet Bioproducts Center
42 acres
0.5 million sq ft space planned
• Food Innovation Center
• Multiple tenants
• Community Makerspace
• Conference facility
550 acres
16 Buildings
2,000 employees in over 100 companies or organizations
300 students

a not-for-profit, independent corporation

1987-
Discussion Topics

Should UW pursue plans for a research park?

What are the potential avenues for finances?

What are potential risks?
Research and Economic Development

Catalyze
Support
Leverage
Collaborate