1st Annual All Sciences K16 Science Summit  
Casper, WY  
Friday and Saturday, February 19-20 2016

Sponsors  
The University of Wyoming Science Initiative  
The Wyoming School-University Partnership  
The Star Lane Center, Natrona County School District #1  
Wyoming Professional Teaching Standards Board

Summit Goals
1. Develop a solid understanding of what “active learning” means and what it looks like in Wyoming classrooms across K-16 levels and science, technology, engineering and mathematics disciplines.
2. Generate plans to work together to build upon current active learning approaches in the sciences to increase student success in STEM fields.
3. Foster conversation and collaboration across primary, secondary and postsecondary levels after this summit.
4. Incorporate Next Generation Science Standards.

Agenda
Friday, 5:30 – 8:30 PM, Casper Hilton Garden Inn, “Heart of the Garden Room”
Mixer  
Dinner and presentation: UW Top-Tier Science Programs & Facilities Initiative: Constructing more than Buildings  
Presenters  
Leadership Team: Greg Brown (Science Initiative), Mark Lyford (LIFE Sciences Program), Jamie Crait (Wyoming Research Scholars Program) and Rachel Watson (Learning Actively Mentorship Program)  
Questions and discussion

Saturday 8:30 AM – 3:30 PM, The Star Lane Center
8:30 - 9:00 Registration; coffee, tea, breakfast

9:00 - 9:15 Welcome, introductions  
Facilitator  
Rachel Watson

9:15 - 9:30 Overview of the day  
Facilitator  
Brianna Wright
9:30 - 10:45  *Active Learning: A Spectrum of Techniques for Diverse Classrooms*

Activity Leaders
Rachel Watson (Molecular Biology), Kali Nicholas (Botany) and
Brianna Wright (LIFE Sciences Program)
Active Learning Demonstration
Alan Buss (Elementary and Early Childhood Education)

10:45 – 11:00  Break and WY-STEM Announcement

11:00 – 11:45  Sharing Experiences
Small group discussions: *What types of active learning have you used in your classroom? What is one new active learning approach from the spectrum that you will try in your classroom? How will you use this active learning approach to assess a learning outcome that you previously struggled to assess?*

Small Group Leaders: Colleen Collins-Burridge and colleagues (Star Lane Center) and Tonia Dousay (Instructional Technology)

11:45 -12:00  Small group discussion leaders share with the large group

12:00 – 12:30  Lunch

12:30 – 1:15  Presentation & Discussion
*Equitable Access to Experiential Learning Through Outdoor Education*
Presenters
Joanie James and Theresa Williams (UW Lab School)
*Casper Mountain Science School*
Evert Brown (Biology)
*Active Learning Accomplishments in General Biology*
Presenter
Jonathan Prather (Zoology & Physiology)

1:15 - 2:30  Active Learning and Wyoming Research Scholars Panel Discussion
Panelists
Elliott Hulley (Chemistry), Chip Kobulnicky (Physics), Naomi Ward (Molecular Biology), Monia Haselhorst (Botany), Suki Smaglik (Chemistry and Geology), Jamie Crait (Wyoming Research Scholars) and Kasey Trotter (Wyoming Research Scholars)

2:30 - 3:15  *Closing the Circle*
Sharing of student work and outcomes that are a product of active learning
Small group stations, posters and informal conversation

3:15 - 3:30  Large group sharing, planning for the future and opportunities for collaboration (Case Studies and Assessment)

3:30  Evaluations and Adjourn