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INBRE NETWORK RETREAT AT UW-NPS RESEARCH STATION IN GRAND TETON NATIONAL PARK

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✦ SUMMARY

September 11-13, 2014, Wyoming IDEa Networks for Biomedical Research Excellence network participants met for the annual Wyoming INBRE Retreat at the University of Wyoming-National Park Service Research Station (AMK Ranch) in picturesque Grand Teton National Park.

Despite difficult travel conditions including icy roads, cold temperatures, and a treacherous snowstorm that hit the entire state of Wyoming on Thursday September 13th, attendance was outstanding. Regrettably a couple of participants from Gillette College were completely snowed in and could not attend but the majority put on their warmest winter gear to embark on a longer road trip than usual due to the dicey road conditions. Fifty-eight attendees from across Wyoming arrived safely at the AMK on Thursday September 11th 2014. Research teams composed of students and faculty from all the following WY institutions were in attendance at the retreat: Northwest College (Powell), Sheridan College, Central Community College (Riverton), Western Wyoming Community College (Rock Springs), Laramie County Community College (Cheyenne), University of Wyoming (Laramie), and University of Wyoming at Casper (Casper).

The schedule on Friday September 12 was full, somewhat eclectic and definitely interesting as all teams presented about their ongoing research programs (see list of presentations below). The evening keynote speaker was Dr. John Oakey from the Department of Chemical and Petroleum Engineering

at the University of Wyoming (Laramie), who delivered a very well received lecture on biomedical engineering processes (*Microfluidic Encapsulation for the Design of Intra- and Extracellular Niches*). On Saturday Sept 13th, Wyoming INBRE Transition Fellows from UW Laramie opened the meeting by sharing their research experience with future INBRE Transition Fellows from WY junior colleges. A student poster session followed these presentations. The conference ended with an open discussion between all WY INBRE PIs and researchers to consider the state and direction of education and research activities as the program moves towards the next 5 year grant.

The formal meeting adjourned at noon on Saturday September 13th, and with better weather, most attendees participated in a group hike up Cascade Canyon to Hidden Falls.

✦ PRESENTATIONS (speakers are underlined)

INBRE Network Investigations of Coccidia in Wild Hosts. R. Scott Seville (University of Wyoming at Casper)

Production of Recombinant Spider Silk Proteins for Use in Generation of Biomaterials. Sean Henley, R. Scott Seville, and Florence Teulé-Finley (University of Wyoming at Casper)

Twenty-Five Years of Successional Change in Small Mammal Communities since the 1988 Yellowstone Fires. Hayley C. Lanier, Zachary P. Roehrs, Kevin M. Crouch-Jacobs, Samantha E. Haller, Kayla A. Wilson, Dominique C. Schlumpf, Ashkia L. Campbell, Andy J.

- Kulikowski, II, Meredith A. Roehrs, and R. Scott Seville (University of Wyoming at Casper and Laramie County Community College)
- Yellowstone's Springtail Community 25 Years after the Fires. Andy Kulikowski and Hayley Lanier (University of Wyoming at Casper)
- Soil Comparison Study: Germination and Growth of *Artemisia tridentate*. Brittany Elliott, Hayley Lanier, and Lynn Moore (University of Wyoming at Casper)
- RBM20, a Potential Therapeutic and Prognostic Target for Progressive Heart Failure. Zhiyong Yin, Chaoqun Zhu, Jun Ren and Wei Guo (University of Wyoming, Laramie)
- The Effect of Scavenger Diversity on the Rate of Carrion Decomposition. Stephanie Ashley and Will Clark (Western Wyoming Community College)
- The Effects of Microclimates on the Invertebrates of the Trout Creek Waters and its Riparian Zones. Tiffany Simpson and Will Clark (Western Wyoming Community College)
- Assessment of Cardiac Function Using Pressure-Volume Loops As Cardiac Hypertrophy Develops From Iron Deficiency. Jacquie Zadra, Ashley Weigel, Andrea Sanchez Walk, Denise DeLoera, and Bud Chew (Western Wyoming Community College)
- INBRE Research at Northwest College 2013/2014. Allan Childs, Eric C. Atkinson, Elise Kimble, and Steve Harbron (Northwest College)
- Antibiotic Producing Symbionts in Temperate Formicidae. Ryan Croft, Elise Kimble, and Eric Atkinson (Northwest College)
- Adventures in Research, and Other Stuff at Laramie County Community College. Zachary P. Roehrs, Ami L. Wangeline, Meredith A. Roehrs, Kelsea N. Zukauckas, Samantha E. Haller, Meghan O'Brien³ Alexis Lester, and Casandra B. Kertson (Laramie County Community College)
- Faculty report from Central Wyoming College. Suki Smaglik and Steve McAllister (Central Wyoming College)
- Microfluidic Encapsulation for the Design of Intra- and Extracellular Niches. John Oakey, (University of Wyoming, Laramie; **Keynote presentation**)
- Biodetection Using Gas Chromatography-Mass Spectrometry. William Trebelcock, Mitch Helling, and Franco Basile (University of Wyoming, Laramie; transition fellow)
- A Year as a Transition Scholar. James Edermann (University of Wyoming, Laramie; transition fellow)
- Examination of Coccidia in Order Passeriformes. Zach Swope, Wyatt Fabrizio, Marcus Couldridge, Eric C. Atkinson, Allan Childs, and Elise Kimble (Northwest College; **Poster**)
- Winged Arthropods as Sources of Antibiotic-producing Microbes: Is There a Taxonomic Pattern? Alison Winkler, Ryan Croft, Eric Atkinson, and Elise Kimble (Northwest College; **Poster**)