Introduction from Dr. Glenn Duff, Department Head

What an honor and privilege it is to be selected as the new Department Head for Animal and Range Sciences. I would like to express thanks to everyone involved in the process. In addition, I would like to thank Bret Olson for serving as Interim Department Head for the last 4 years. I will be working with Bret and all the faculty, staff, students and other stakeholders in building the department into the premiere Animal and Range Sciences program in the western U.S. I believe there are many exciting things about to happen in the next few years.

One anxiously anticipated event for the department will be moving into the new Animal Bioscience Building. As you read this newsletter, the department is moving into our new building. The support generated by all parties in this new building coming to fruition is mind boggling. It shows the confidence that you have in Montana State University, the College of Agriculture, and the Department of Animal and Range Sciences in making an impact on all of our lives.

When one considers how much work goes into raising our food, it is humbling to realize that our research program directly impacts the lives of producers everyday. The Department of Animal and Range Sciences has a rich history of applied research. Working with faculty for new hires and helping to direct the research program is one will be a rewarding aspect of the position. In addition, learning about the outcomes of all of the department’s research projects and working with Extension to get this valuable information out to the producers will be one of my tasks. Last week, I attended the JAM (Joint Annual Meeting of the Federation of Animal Sciences) meeting where I attended several sessions along with board meetings for the Western Section American Society of Animal Sciences (I was elected Secretary-Treasurer of the Western Section). I also attended the Graduate Student Competition for the Western Society of Animal Sciences where Montana State University was well represented.

Another assignment that I look forward to doing is getting out in the state and meeting stakeholders to discuss the direction of the department. I value input from producers and working with the faculty, look forward to reevaluating the curriculum. In my opinion, curriculum matters are always one of the top priorities for a Land-Grant University. Molding the youth with the knowledge obtained at Montana State University and thus turning individuals into citizens that we can be proud of along is important for training the next generation of producers.

Given all the enthusiasm we will easily reach the goal of the Department of Animal and Range Sciences be the best in the west. As pointed out previously in an academic program review “The Sky is the Limit”. I look forward to meeting with stakeholders and please feel free to contact me or stop by and visit when you are in Bozeman.

Glenn Duff

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Message from Interim Department Head: Dr. Bret Olson

To all,

I have been privileged to be interim head of the Animal and Range Sciences Department for almost four years. Early on in my tenure as head, I was hearing that our customers in Montana and the region (this is you) were not fully aware of our activities and accomplishments. Thus, about a year after my administrative assistant, Susan Cooper, had settled into her position in the department, we initiated this quarterly newsletter in October 2008. Your response has been very positive.

And with this newsletter, I have the great pleasure of introducing Dr. Glenn Duff, our new department head who will officially begin his role August 16th. Dr. Duff also believes that this newsletter is an important way to communicate to you how our department serves you. I look forward to Dr. Duff continuing and improving upon this newsletter, and leading the department into the future.

Finally, last fall one of our undergraduate workers in the front office heard that we were searching for a permanent department head, and became quite concerned that I would become “jobless”. Fortunately, I explained to her that I would simply revert to my previous faculty role in teaching and research in the area of range science, which I have valued since 1990 when I joined the faculty of Animal and Range Sciences. So, I am not riding off into the sunset. After mid-August, I can be reached at 994-5571 or bolson@montana.edu. Cheers.

WE ARE MOVING!!

As you are reading this newsletter we are in the process of moving into the new Animal Bioscience Building. We thank all of you for your support over the past few years to make this dream a reality and hope that you come by and visit us in our new digs!

You can reach us at:

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Bozeman, MT 59717-2900
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FAX: 406-994-5589
2010 Youth Horsemanship School

In June, 43 enthusiastic young horse lovers from the ages 9-17 attended the annual Youth Horsemanship School at MSU’s Miller stock Pavilion and BART Farm. Students from across the state and Washington lived in the universities dorms and enjoyed 5 days of equitation instruction and equine education. The annual event is hosted by the Department of Animal and Range Sciences and MSU Extension. The school was directed by Dr. Shannon Moreaux, the new Equine extension specialist and long time equine science instructor. The Youth Horsemanship School was facilitated this year by Julie Hager, Andi Shockley and a volunteer cast of current students, former students and local equine industry professionals. Current students, Megan Scherting, Nikki Bailey and John Pearson developed the 5 day program. The instructors for this year’s school included Lindsay Klouser, Katie Jacobson, Devon Powell, Megan Scherting, Nikki Bailey, Candy Wilcox, Tahnee Peppenger, Jess Hollaway, Peggy Lucas, Bryce Kawasaki and Dr. Moreaux.

School or “horse camp”, as it is affectionately called, participants learned how to treat equine emergencies, load and haul horses safely, groom horses for a show and even had a chance to make their own hoof picks out of recycled horseshoes. Camp attendees improved their riding skills while learning horsemanship exercises and competing in equestrian events such as barrel racing, poll bending and team penning. On the last day of camp the young horse enthusiast displayed all that they had learned during the week for parents and special guests.

This year’s youth horsemanship camp would not have been possible without or wonderful volunteer chaperones and the generous donations from local area businesses.

Sponsors included Danhof Chevrolet, Four Corners Saddlery, Montana Farm Bureau, Montana Equine Medical and Surgical Center, Rocky Mountain Supply, Stockman Bank, Yellowstone Gateway Sports and Western Pines Livestock Bedding.

This year’s attendees were treated to a Thursday night hayride and camp fire where they roasted hot dogs and marshmallows for s’mores. Three teams of horses and drivers organized by Larry Thomas and the Gallatin Valley Saddle and Harness Club may for an exciting beginning to the night. The evening’s entertainment was provided by local area singers Ashleigh and James Newell. James played the guitar while campers clapped and sang along with Ashleigh.

According to student surveys, and 90 percent said they “were definitely coming back” and “this was the best camp ever”!

For more information see ARNR Extension Equine page at: http://www.animalrangeextension.montana.edu/equine/equine.htm.
Student News:

Erin Snyder of Bozeman, MT, has been selected as the recipient of the $1,500 Sheep Heritage Foundation Memorial Scholarship being offered through the American Sheep Industry Association (ASI). Snyder is engaged in a Master of Science in Animal & Range Sciences at Montana State University. According to Guy Flora, president of ASI’s Sheep Heritage Foundation, “Snyder’s application ranked highest based on the practical application of the described work, the likelihood of achieving meaningful results within the time frame of the work and the credentials of the applicant.”

The following Animal & Range Sciences graduate students gave presentations at the National Conference of the American Society of Animal Science (ASAS) in Denver, CO July 11-15:

Rick McCosh (major advisor Jim Berardinelli) gave a presentation entitled: “Effect of Ram Exposure on Temporal Patterns of Progesterone and Metabolic Hormones Concentrations in 18 Month Old Virgin Targhee Ewes During the Transition into the Breeding Season.”

Jennifer Keithly (major advisor Pat Hatfield) gave a presentation entitled: “Thermogenesis, Serum Metabolites, and Growth in Lambs Born to Ewes Supplemented with Docosahexaenoic Acid.”

Mike Borgreen (major advisor Jim Berardinelli) gave a presentation entitled: “Reproductive Rate of Semi-free Ranging Bison at the National Bison Range.”

Ty McDonald (major advisor John Paterson) gave a presentation entitled: “Dry Matter Intake is Repeatable Over Parities and Residual Feed Intake is Negatively Correlated with Dry Matter Digestibility in Gestating Cows.”

Lindsey Voigt (major advisor Rachel Endecott) gave a presentation entitled: “In Situ Digestibility of Grass Hay After Heifer Diets Were Abruptly Switched From 35 or 70% Concentrate to 100% Forage.”

Brian Nichols (major advisor John Paterson) gave a presentation entitled: “Effects of Gestational Dietary Metabolizable Protein Level and Dry Matter Intake on Subsequent Production Traits in Primiparous Heifers.”

Upcoming Dates

August 30    MSU Classes Begin for 2010 Fall Semester
September 6  Labor Day Holiday Observed (no classes, offices closed)
September 16 Miles City Ram Sale (Miles City, MT)
Montana 4-H Congress Tour MSU’s Bozeman Agriculture Research and Teach Farm with Dr. Shannon Moreaux

High school students from across the state “wowed” by equine anatomy and pathology lesson.

Montana 4-H Congress provides youth from across the state an opportunity to tour agriculture facilities at the Montana State University campus in Bozeman. For four days 4-Hers participate in contest and enjoy social events and educational presentations from some of MSU’s researchers and instructors. This year youths from across the state who chose to tour MSU’s Bozeman Agriculture Research and Teaching Farm were treated to an exciting lesson in equine anatomy and pathology. Students in attendance listened intently as Dr. Moreaux discussed his methods of teaching anatomy and conformation to undergraduate students enrolled in the equine science program. Dr. Moreaux used an entire horse skeleton and bones from cats and rodents to compare the equine anatomy other mammals. After investigating the bones and tying to decide which part went where, Dr. Moreaux revealed “Sally”, a horse in which he painted bones on. The students were then able to see exactly where each bone was located inside the horse.

Dr. Moreaux used the horse skeleton, which was donated to him after being excavated from a construction site, to demonstrate abnormal conformation and the subsequent pathology that may have caused the horse to be lame when it was alive.

Other News

Dr. Jane Ann Boles, Associate Professor, Animal Science lead the Basic Meat Microbiology & HACCP training on May 19-21, 2010. There were 27 attendees from all aspects of the industry including several meat processors, inspectors and several people raising vegetables. The course introduced participants to the intricacies of microbiology, introduced the regulations and required the participants to develop, as a group, a HACCP plan. A demonstration of smoked sausage processing in the Meat Laboratory was the basis of one of the HACCP plan developed.
### Student Awards and Scholarships

The Department of Animal and Range Sciences is pleased to announce the recipients of the 2010-2011 scholarships and awards:

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Recipient(s)</th>
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<tbody>
<tr>
<td>Martin Burris Scholarship:</td>
<td>Brian Bignell, Animal Science (Avon, MT)</td>
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<tr>
<td>A.B. Cobb III Memorial Scholarship:</td>
<td>Jennifer Markuson, Animal Science (Ekalaka, MT)</td>
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<tr>
<td>Grieco Animal Science Award:</td>
<td>Logan Tomschin, Animal Science (Wilsall, MT)</td>
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<tr>
<td>Hilger Ranch Memorial Scholarship:</td>
<td>Austin Switzer, Animal Science (Richey, MT) and Elizabeth Smith, Animal Science (Glen, MT)</td>
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<tr>
<td>Chuck &amp; Penny Jarecki Scholarship:</td>
<td>James Carey, Natural Resources &amp; Rangeland Ecology (Boulder, MT)</td>
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<tr>
<td>Chuck McGlothlin Outstanding Range Belt Buckle:</td>
<td>Kailee Bickford, Natural Resources &amp; Rangeland Ecology (Havre, MT)</td>
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<tr>
<td>Michael J. McLoughlin Scholarship:</td>
<td>Mallory Hines, Animal Science (Corvallis, OR)</td>
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<td>Dr. E.L. Moody Memorial Scholarship:</td>
<td>Richard McCosh, Animal &amp; Range Sciences (San Diego, CA)</td>
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<tr>
<td>Northern Great Plains, SRM Gerald Sharp Memorial Scholarship:</td>
<td>Kailee Bickford, Natural Resources &amp; Rangeland Ecology (Havre, MT)</td>
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<tr>
<td>Payne, Ryerson, Taylor Range Scholarship:</td>
<td>Daniel Pratt, Natural Resources &amp; Rangeland Ecology (Miles City, MT)</td>
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<tr>
<td>Don Ryerson/Ag Lenders Scholarship:</td>
<td>Kailee Bickford, Natural Resources &amp; Rangeland Ecology (Havre, MT) and Scott Anderson, Natural Resources &amp; Rangeland Ecology (Alexander, ND)</td>
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<td>Sitz Ranch Management Team Endowment:</td>
<td>Elizabeth Messier, Animal Science (Wrentham, MA)</td>
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<td>Oscar O. &amp; Carol H. Thomas Memorial Scholarship:</td>
<td>Lisa Hall, Animal Science (Lewistown, MT)</td>
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<tr>
<td>Verl M. Thomas Memorial Scholarship:</td>
<td>Bob Sager, Animal &amp; Range Sciences (Wilsall, MT)</td>
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<tr>
<td>Fred S. &amp; Violet E. Willson Scholarship:</td>
<td>Alexis Wainwright, Natural Resources &amp; Rangeland Ecology (Livingston, MT)</td>
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<tr>
<td>Ray Woodward Incoming Freshman Scholarship:</td>
<td>Rebecka Ayre, Animal Science (Roberts, MT)</td>
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<tr>
<td>Animal &amp; Range Sciences Graduating Senior Award:</td>
<td>Kari Gillespie, Animal Science (Kevin, MT)</td>
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### Help Support Animal and Range Sciences

A gift to the Department is a great way to support student and faculty endeavors. Donations can be earmarked for student scholarship funds, faculty research, the new Animal Bioscience Building, and more.

For more information about making a donation to the Department contact:

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*Newsletter edited and compiled by Susan Cooper*

*With special thanks to the entire A&RS Administrative Team*