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NRM Newsletter

Natural Resource Management

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Natural Resource Management Newsletter

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NATURAL RESOURCE MANAGEMENT (NRM) NEWSLETTER



Department of Natural Resource Management
South Dakota State University
Volume 72, Number 3, September 2013

Newsletter Update–Dave Willis (Department Head)

Thanks to **all** of you, the newsletter items continue to flow across my desk! Thus, here is the third newsletter of 2013. That's quite a change from the old model of one per year, and would not have been possible if we had to pay for the newsletter layout, printing, and mailing. We know that we have sacrificed a bit with this change to an electronic newsletter, but my goodness – we certainly interact with a wonderful bunch of alumni and friends as a result.

The fall 2013 census day counts are in and have been released by the SD Board of Regents. SDSU overall enrollment declined slightly from 12,583 in fall 2012 to 12,554 for fall 2013 (-0.23%). However, full-time equivalents (based on course loads/credits) was actually up 0.66%, meaning that students were taking more credits. Freshmen enrolled at SDSU hit an all-time high (2,306), and retention of freshmen to their sophomore year increased substantially from fall of 2012 to fall 2013. We don't have the enrollment by major yet, so we'll report that in the next newsletter.

Acknowledgement: Our thanks to **Dr. Jon Jenks** for the bighorn sheep image on the banner for this issue of the NRM newsletter.



ICHTHYOLOGY QUIZ



Ichthyology quiz! What does that straight-edge anal fin indicate? © Answer on page 9 of this newsletter.

ALUMNI NEWS

Scott McLeod

Scott McLeod (BS 1990, MS 1994, Wildlife and Fisheries under Dr. Higgins) is now the ND Partners for Fish and Wildlife Coordinator with the U.S. Fish and Wildlife Service in Bismarck, ND.

Marcus Gray

Marcus Gray (MS Wildlife and Fisheries 2009 under Dr. Jenks) is now the Coordinator for Science-Based Conservation Programs & Research for the Safari Club International Foundation.

<http://www.safariclubfoundation.org>

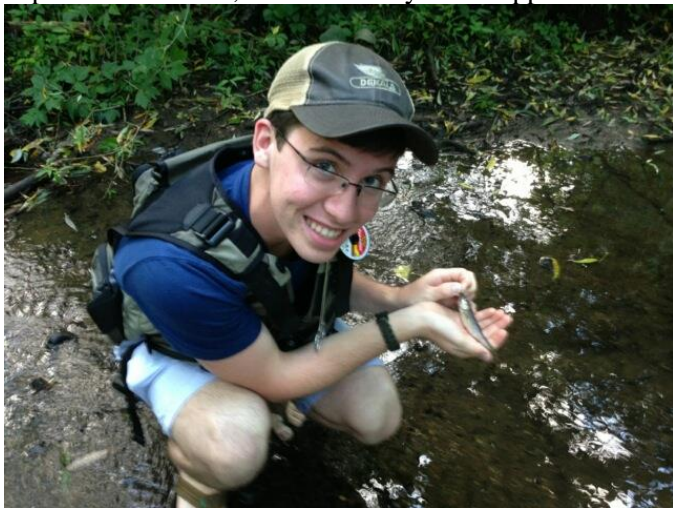
ALUMNI NEWS, continued

Bill McKibbin

Bill McKibbin (MS Wildlife and Fisheries 2002 under Dr. Willis) recently accepted a promotion as a Long-term Monitoring Biologist with the Minnesota Department of Natural Resources Fisheries Research Unit. Bill indicated that a change in responsibilities was welcome after almost 12 years with DNR Fisheries Management. He is stationed at the Glenwood office (Bill.McKibbin@state.mn.us).

Gary Creek trip

Jeff Donahoe (BS 1975 Wildlife and Fisheries) and his son Dan (pictured below) fished Gary Creek (about 50 miles northeast of Brookings) during an August visit. They found the creek chubs cooperative in the stream and the rainbow trout cooperative in the pool down in Gary. Jeff indicated that he and Dan fish in Shenandoah Park for brook trout and thus have experience catching small fish on flies. ☺ Gary Creek is a very pretty spot – do any alumni remember field trips or fishing trips up there? Our SD Game, Fish and Parks friends have stocked the creek with either catchable size brown trout or rainbow trout over the years. Jeff and wife Pam endowed a Jackrabbit Guarantee scholarship within our department in 2010, which we very much appreciate!



Dan Donahoe on Gary Creek

Jacob Krause

Jacob Krause (MS Wildlife and Fisheries 2013 under Dr. Bertrand) accepted a PhD position at North Carolina State University under Drs. Jeff Buckle and Joe Hightower. His project entails a tagging and telemetry to better understand natural and angling mortality on marine weakfish, which has been in decline along the eastern seaboard over the last 20 years. As of now, the study will also examine the predation rates of bottlenose dolphins on weakfish based on the stomach contents

from dolphins washed up dead on shore. Jacob is currently on a Teaching Assistantship the first year in Raleigh, and the next 4 years he will be on the coast in Morehead City to conduct the research as a Research Assistant.

Matt Hennen

We reported in the last newsletter that **Matt Hennen** (M.S. Wildlife and Fisheries Sciences 2010 under Dr. Brown) had returned to the Minnesota DNR. Now we can report in this newsletter that Matt was married on August 31, 2013 to Kaylee Hunter in Hutchinson, MN. He reported that “The timing with my new position with MN DNR could not have worked out better. It is great to be back in MN closer to friends and family and there some pretty beautiful lakes in the Tower area. Now, I just have to get reacquainted with old man winter, which will be an adjustment from the mild winters in the Pacific NW.”

Jeff Gleason

Dr. Jeff Gleason (BS 1992, MS 1997 under Dr. Jenks, Wildlife and Fisheries Sciences) submitted the following on his tournament exploits for your reading pleasure!

‘As some of you may have heard or seen, I was fortunate enough to not only survive the tough fishing conditions, but actually weighed-in the largest bull red for the event!! The fish weighed 32.96 lb and resulted in a new Hobie Mirage ProAngler 12 donated from BackPacker in Baton Rouge. Likely my wife Deborah will be spending more time in this fancy peddle-craft than I. Not bad for an angler who cut his teeth on largemouth bass, black crappie, bluegill, and channel catfish in western IA, followed by some excellent training on walleyes and pike in the Dakotas and finally salmon fishing in Alaska. Statistics regarding the number of entrants and number of anglers can be found at the NOLA link (http://www.nola.com/outdoors/index.ssf/2013/08/ride_the_bull_iv_smashes_north.html).’



Dr. Jeff Gleason in his kayak.

Recruiting ‘em young!

As you can see below, we are recruiting them young these days! Departmental friend **Kevin Richards** (retired fisheries biologist, MO Dept. of Conservation; recently retired editor, MUSKIES magazine) sent this photo of his youngest grandson. We hope we can plan on enrollment for fall of 2028? Kevin? Yes, I know I should report the grandson’s name, but I didn’t want to ask Kevin and spoil the newsletter surprise. 😊



Sod tables

Dr. Lora Perkins took the picture below in the South Dakota Badlands. She is wondering whether the flat-topped “sod tables” might be a good research site for her grassland ecology work as a model system to examine the effects of fragmentation and isolation on vegetation dynamics, species invasion, and community disassembly.



Lyle Perman at “Plain Green”

Lyle Perman (1977 SDSU graduate in general ag) was a speaker at the Plain Green conference for green design, business and ideas on September 13. The conference was a full day of advancing sustainability on the Northern Plains. Following is the conference press release about Lyle’s presentation.

‘With 5,000 acres of grass at the Rock Hills Ranch in Lowry, S.D., Lyle Perman not only has a lot of land to manage, but also a lot of water. The ranch annually receives approximately 17 inches of rain on average, producing over 2 billion gallons of water or enough to fill 80,000 backyard swimming pools. “Water is extremely important. It’s the number one limiting factor in grass production on our ranch. We have plenty of sunlight and air for the plants. We tend to be greedy in terms of water. Anything that falls on the ranch, we try to capture,” said Perman, a 1977 SDSU graduate.

Perman will present his thoughts on water management and his practices on the Rock Hills Ranch Sept. 13 at 11 a.m. at the upcoming Plain Green 13 Conference Orpheum Theater in Sioux Falls. When his family took over the Rock Hills Ranch 38 years ago, Perman needed to make changes, particularly in ways to enhance water management. “Like anything, when times change, so do management practices. Thirty-seven years ago when I graduated from college, it had been operated as a dairy and crop farm on soils that were not suited to be farmed,” Perman said. “My father LeRoy planted the tillable ground back to pasture grasses and alfalfa. The pastures were suffering from over grazing in some areas due to season long grazing. Most of the ranch’s tillable ground has been returned to grass and alfalfa. We’re in the process of doing the same with additional ground we’ve purchased, putting back to native grasses.

“We look at what’s above ground and below,” he continued. “To maximize infiltration we concentrate on litter (dead plant material) on the surface. We want to have all of our ground covered and improve our organic matter to increase the ability of the soil to hold water. Increased infiltration and organic matter help make the ranch remain productive in years when rainfall is below normal.

Some of Perman’s actions are a result of attending SDSU. “I started rotational grazing when I came back from college. It’s evolved from that to the point to now where we look at pasture and try to figure out how to better manage it, sometimes it requires another cross fence and the next time more water development,” he said. “Some of the practices we use today have evolved. Take, for example, no-

Lyle Perman, continued

till farming or management intensive grazing. Those were not on the radar when I was in college. What SDSU did for me was provide me with an understanding of the land and the importance of staying connected with people who can help you make better management decisions.”

The ranch currently is home to Black Angus cow-calf operation but the Permans also plant various food crops for wildlife. There is a holistic approach to the ranch’s activities.

“Whenever we look at land use, we need to look at the whole picture instead of just one item,” he said. “For example, if I have a pasture with a lot of growth, one might think I should use all of it. If I do that short-term, it might work but if I do it long-term, it will hurt the pasture. We ask ourselves ‘How does that use impact insects? Large game animals? Ground nesting Birds? Do my management practices have an impact on pheasants?’ There are a lot of items to be considered when looking at land management. We see a lot of land use managers look at what will give them the largest return in the short term, not looking at the big picture and long-term consequences for their actions.

“We have to move beyond the short term in water management. We have to look at our farm or ranch and solve the problem. If we have a water problem on our farm or ranch, is land-use creating this problem in the watershed?” Perman continued. “If you have an upset stomach and you’re throwing up, you don’t stick a piece of duct tape over your mouth. You need to treat the problem, not the symptom. We’re trying to figure out how to get rid of the water instead of figuring out what created the problem to start with. To solve our water problems in this region we need to figure out why are we seeing water in places where we’ve never seen it before.”

Solving problems and seeing the big picture are things Perman hopes attendees will take from his talk as well as from the conference. “Some of them, due to their profession, can make an impact on a daily basis through their work. Others will have to look at what kind of impact they can make with

public policy. It might be through the ballot box or a better understanding of issues. Public policy drives a lot of what happens on the landscape.” ’

Editorial comment from Willis: Lyle is very active in the SD Grassland Coalition and currently serves as Chair of their Board of Directors. NRM is extensively involved with the Coalition, especially through **Dr. Sandy Smart** and **Pete Bauman**.



Lyle Perman

Update from the SDSU Ecology Club

The following update was graciously provided by Club President Gabrielle Maltaverne.

“The SDSU Ecology club is a student chapter of the Ecological Society of America (ESA). This newly formed (December 2012) organization is highly active! The majority of their first semester was dedicated to initiation of their organization with ESA and SDSU, including creation of a constitution, attending university student association meetings, applying for chapter recognition from the ESA SEEDS program, applying for grant funding, electing council members and delegating responsibilities, and having weekly meetings to plan upcoming activities. They have 11 council members who attended and approximately 30 other student and university staff members involved in club activities.

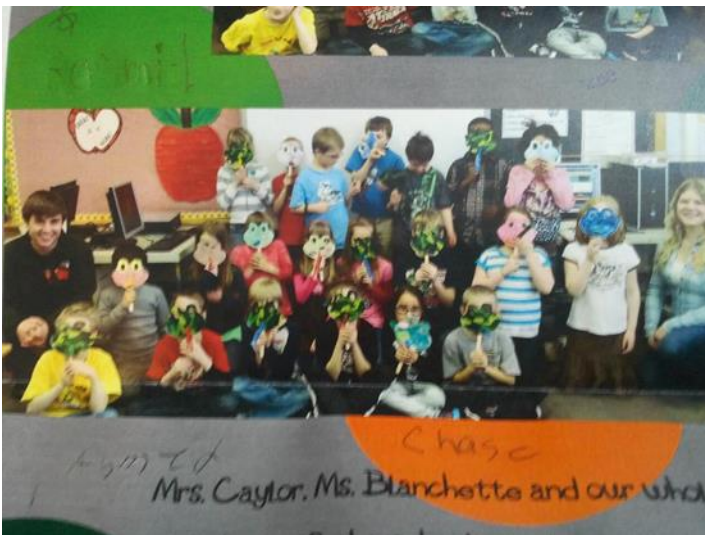


Members of the newly formed (December 2012) and highly active SDSU Ecology Club

SDSU Ecology Club, continued

Ecology club activities to date have included: attending the 98th Annual ESA meeting August 4-9, 2013, in Minneapolis; hosting a field trip to Oak Lake Field Station to familiarize students with the field station prior to teaching courses for the summer camp; attending the Society of Wetland Scientists (SWS) meeting June 2-6, 2013, in Duluth Minnesota; attending the Dakota Amphibian and Reptile Network (DARN) meeting on May 10, 2013.

Community outreach activities to date included teaching ecologically related courses to children at the Boys and Girls Club of Brookings, SD. The bi-weekly classes were one hour long and taught by council members Gabrielle Maltaverne, Austin Hanson, Meagan Abraham, and Jennifer McLaughlin; and teaching one ecologically related course to Hillcrest Elementary second graders April 16, 2013. This presentation involved the life cycle of amphibians and their ecological importance and was instructed by Gabrielle Maltaverne and Austin Hanson.



Community outreach by the SDSU Ecology Club!

The SDSU Ecology Club is also taught several courses from climate to organismal ecology on June 16-21 for the Oak Lake Field Station Summer Camp. Club members involved were Austin Hanson, Nicole Boone, Troy Lambert, Andrew Carlson, Derek Kannenberg, Trevor Johnson, Kylee Shotkoski, and Diane Narem. The Club's Eco-Squad (campus outreach) committee, led by Jennifer McLaughlin, set up a partnership event with recycle-mania to assist with educating students on what can and cannot be recycled and where it can be recycled on and off campus. Another event, Earth Hour, was celebrated by the Ecology Club. All of the lights in certain dorm rooms and the student union were turned

off and signs were put out to inform students of the significance of the Earth Hour celebration March 22, 2013. This was again set up by Eco-Squad leader Jennifer McLaughlin. A major event in which the Ecology Club participated was GreenFest on April 21-22. This was a city wide Earth Day celebration where students were able to interact with other members in the community interested in sustainability. Members involved include Nicole Boone, Gabrielle Maltaverne, Troy Lambert, Austin Hanson, Andrew Carlson, Meagan Abraham, Diane Narem, and Jennifer McLaughlin. Another club event was helping with the 59th Eastern Dakota Science fair March 12, 2013. Club members who participated were Outreach leaders Brianna Lind and Nicole Boone and member Kylee Shotkoski.

Visit the SDSU Ecology Club Facebook page at <https://www.facebook.com/groups/SDSUEcologyClub/>.

South Dakota Conservationist Educator of the Year
Dr. Chuck Dieter was surprised at the September 7-8, 2013 Annual Meeting of the South Dakota Wildlife Federation where he received their South Dakota Conservationist Educator of the Year Award. Our congratulations to Chuck! The award is a very nice piece of artwork (see below), especially if you appreciate mule deer.



Dr. Chuck Dieter receives the South Dakota Conservationist Educator of the Year Award from South Dakota Wildlife Federation President Rich Widman.

Update from Department Head Emeritus **Chuck Scalet**
Ginger and I moved to Lawrence, Kansas, in July. We still have boxes to unpack, but we are making headway. We view this as a new adventure, and so far we have really enjoyed everything about it. There were many reasons why we left Brookings and selected Lawrence.

Scalet update, continued

We needed a home without stairs. In our new home, everything we need is on one floor with guest rooms and baths on a second floor. We travel quite a lot, and the Kansas City airport (45 miles) is much, much better than Sioux Falls. In addition, we are more accessible to our children--direct flights to Phoenix and New Jersey.

Of course, we needed a university town, having met and married at a university and having spent our 47 years together in a university town. The weather is much milder here in the winter, and we did pick up more golfing weather during the year, but we still have seasons. Lawrence (100,000) is larger than Brookings and Kansas City is larger than Sioux Falls, and so on.

We didn't like leaving our good friends in Brookings, but Lawrence is central, and a number of friends have already said they will visit—either to make a specific visit or when going through the area on their way to visit family. In our 40 years in Brookings, we never had anyone stop on their way to Fargo, but we think this will be a different scenario.

We built a nice, roomy home and have plenty of room for visitors. We spent three weeks in an apartment in July, since the house wasn't ready for us to move into when we arrived. When the moving truck did unload us in mid-August, the house was about 85% done, if you count the uncompleted landscaping and lawn sodding, but we have been able to get the majority of the unpacking done and are beginning to feel at home. We're off on a golf holiday to Nebraska next week, and we think our contractor can hardly wait to get us out of the property to finish some things without us or the dogs around.

Our dogs, Jake (13-1/2 yrs.) and Mack (9-1/2 yrs.) made the transition well. I kept telling Ginger if we were with them they would be all right, and this turned out to be true. They stuck to us like glue for several weeks, but now that we're in our home, they are feeling more at home, too. We are grateful they made a successful transition.

Our new address is 204 Knotted Bend Court, Lawrence, Kansas 66049. Our land line is 785-856-4070, and Ginger's mobile remains 605-691-5060. My email address remains cgscalet@yahoo.com.

We continue to enjoy our retirement. We wish everyone good health and best wishes. And remember, visitors are welcome.

Prairie AquaTech earns award

Prairie AquaTech, a South Dakota-based company developing high-protein fish feed, won the top honor in August 2013 at a prestigious investment forum in the heart of the animal health corridor. Representatives of 13 emerging animal health companies from 11 states, Belgium and Japan made presentations to investors as finalists at the Kansas City Animal Health Investment Forum. Prairie AquaTech was selected as the 2013 Innovation Award winner. Competition for the strongest presentation was judged by a panel of industry leaders. The award included a check for \$2,500 from Aratana Therapeutics. Mark Luecke, CEO of Prairie AquaTech, made the presentation for the company. Luecke is also the managing director and CEO of South Dakota Innovation Partners, a venture capital firm based in Sioux Falls, which is a co-founder and investment partner of Prairie AquaTech. Prairie AquaTech uses a microbial process to produce feed for fish by converting plant-based materials such as soybean meal and dried distillers grain into concentrated protein. The feed is designed to replace more expensive fish meal used in commercial feeding operations. **Drs. Mike Brown** (NRM) and **Bill Gibbons** (Biology/Microbiology) are the chief scientific officers of Prairie AquaTech.



Mark Luecke receives the check for the Prairie AquaTech innovation award at Kansas City.

Range and Wildlife Personnel at Cottonwood Station

The Cottonwood Field Station is located about 10 miles west of Philip, SD. During September of 2013, a “re-dedication” of the facility was celebrated after a \$500K investment in facilities by Dean **Barry Dunn**. SD Agricultural Experiment Station Director **Daniel Scholl** coordinated the all-day program. NRM personnel from both Range and Wildlife provided an extended presentation during a field trip. Departmental personnel involved with presentations included **Sandy Smart, Pat Johnson, Roger Gates, Pete Bauman, KC Jensen, and Christi Koehler**.

Cottonwood Station, continued

As part of the activities, our range and wildlife personnel provided a very informative, extended presentation. The SDSU range science faculty over the years built a long-term data set by monitoring lightly grazed, moderately grazed, and heavily grazed pastures. Like all long-term ecological data sets, much value comes from analyses of these data, and this is a 50-year+ data set that continues to this day! Sandy, Barry, and Pat presented both an ecological and economic evaluation of the paradigm-changing research on grazing relations to grassland productivity, plant biodiversity, and economic return from grazing. KC and Christi were there to relate grazing intensity to bird use by various bird species in the three different grazing treatments. Sandy always does a great job of integrating the concept of ecosystem services into his presentations, which he effectively did this time. If society wants particular services from private landowners (e.g., erosion control to reduce sedimentation or considerations for wildlife), then society needs to participate financially. KC invited Steve Fairbairn, Wildlife Biologist with the US Fish and Wildlife Service Partners for Fish and Wildlife program in Spearfish, who gave an overview of cooperative programs with agencies such as the Natural Resource Conservation Service and USFWS. Pete and Roger finished things with a demonstration of the value of monitoring residual grass cover on pastureland. This is a “short version” of what was covered, but I can assure you that it was all very well done.

So, our thanks to all of that crew. Like everyone in the department, they are working hard and doing good things.



Dr. Sandy Smart discusses the long-term grazing history at the Cottonwood Field Station.

Clifford Fiscus Speaker Endowment

Cliff Fiscus (BS Wildlife and Fisheries 1950) provided both a Speaker Endowment and a Waterfowl Research Endowment to the NRM Department. Guest speakers supported by the Speaker Endowment and scheduled so far for fall 2013 include:

* Dr. David Trauger, Virginia Tech University, Associate Dean for the Graduate School (retired):

Clinging to the Cliff: Wildlife Conservation on the Energy Downslope

* Dr. Brian Kenner, National Park Service: *Black-footed ferret recovery program at Badlands National Park*

***Doug Schultz** (BS Wildlife and Fisheries 2003 and then an MS from the good fisheries program down at SIU-Carbondale), Minnesota Department of Natural Resources, *It's not too late to change your major...* based on the Leech Lake sport fishery case history. Doug is the relatively new area fisheries supervisor for the Walker Fisheries Management Area, so our congratulations to him on that promotion!



Cliff Fiscus in his natural environment in 1955.

We also received some fun news about Cliff. His nephew, Joe Greear, reported to us that the National Oceanic and Atmospheric Administration approved the installation of the Cliff Fiscus memorial bench on the Sand Point Campus at the NOAA Western Regional Center in Seattle. A dedication ceremony was held on September 7.



Plaque on the Cliff Fiscus memorial bench in Seattle.

SDSU Student Subunit American Fisheries Society
The SDSU Student Subunit of AFS hosted a Cub Scout Fishing Derby during September. They educated 43 children about aquatic ecosystems and angling -- quite an accomplishment! Several images from that cloudy day follow.



Update your Alumnus Information

Alumni can update their contact information at the following link for the Alumni Association. We get annual updates. Hopefully, this complex link will work

by clicking (it works for me). If not, copy it and paste it into your web browser.

<https://securelb.imodules.com/s/1108/index.aspx?sid=1108&gid=1&pgid=3&cid=40&returnurl=http%3a%2f%2fwww.statealum.com%2fs%2f1108%2findex.aspx%3fsid%3d1108%26gid%3d1%26pgid%3d1921>

Jesse West Research Endowment update

Funds from the Jesse West fisheries research endowment were used in recent months. First, Ph.D. student Dan Dembkowski took a trip to Richmond Mill Lake and see the management efforts on using fish feeders to improve quality of both largemouth bass and bluegill in a North Carolina lake of very low water fertility and high flushing rates. Dan wrote a popular article on his visit (http://www.sdstate.edu/nrm/research-endowments/upload/Richmond-Mill_Dembkowski.pdf). Secondly, he also is working on a case study on the Richmond Lake fishery that can be used by fisheries educators in the classroom.

This endowment was initiated and is supported by Eric and Ruth West of Jackson, MS, and also through the *Pond Boss* organization (Bob Lusk). I think the *Pond Boss* logo is a real “gem” – see below to determine if you agree. There couldn’t possibly be any fish bias in that appreciation, could there?

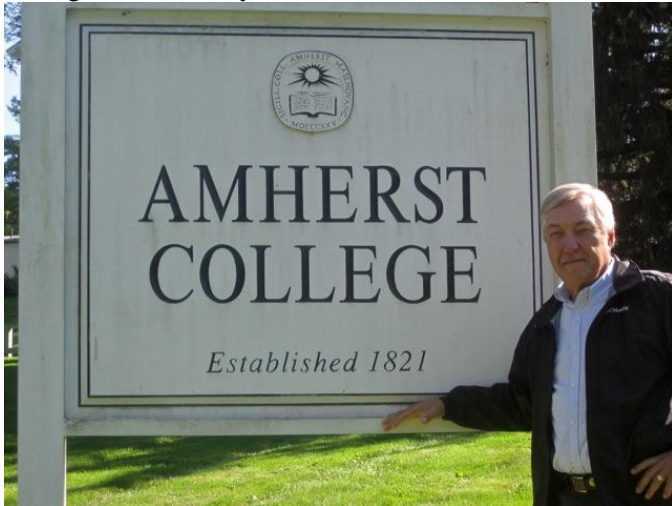


Carter Johnson invited to Amherst

Dr. Carter Johnson, Distinguished Professor of Ecology in NRM, gave an invited lecture in September at Amherst College in Massachusetts on the subject of innovative approaches to reverse the demise of the tall grass prairie. Carter reviewed the latest results from a five-year experiment on the EcoSun Prairie Farm (<http://www.ecosunprairiefarms.org/>) that demonstrated that converting a corn and soybean farm to strategic mixtures of native prairie can be a profitable through the marketing of seed, hay, and grass-fed beef. Dr. Johnson and several other SDSU faculty members established

Carter Johnson, continued

EcoSun Prairie Farms in 2007 as a non-profit South Dakota corporation to carry out the prairie restoration experiment on a 650 acre working farm near Colman, South Dakota. Faculty and students from Amherst and nearby institutions (University of Massachusetts, Smith College, Mount Holyoke) attended the lecture.



Dr. Carter Johnson at Amherst in September, 2013

Highmore Rancher Earns National Conservation Honor

The national Association of Fish and Wildlife Agencies has awarded **Jim Faulstich** the 2013 National Private Lands Fish and Wildlife Stewardship Award at their recent meeting in Portland, Oregon.

Faulstich wanted to operate a profitable ranch, preserve the natural resources of the land and pass the ranch on to the next generation in better condition. His success brought him a national honor as he received the award for his work on his 5,300 acre family farm/ranch. Faulstich has invested time and resources to become a knowledgeable practitioner of principles and concepts learned in holistic management courses, grazing management workshops and tours, and more. Under his holistic approach to ranch management, he focuses on careful stewardship of the natural resources. Now, Faulstich is a frequent speaker at local and regional ranch and grazing management workshops.

“Jim believes that stewardship of the resources leads to better health of everything, benefiting land, water, livestock, wildlife and people,” South Dakota Game, Fish and Parks Secretary Jeff Vonk said.

Native and restored grassland and associated wetlands comprise about 80 percent of the ranch. It has become a sustainable grass-based ranch that also provides high-quality habitat to a wide variety of grassland- and wetland-dependent wildlife.

“Jim's tireless commitment to grassland stewardship and conservation is demonstrated not only in his day-to-day ranch management efforts, but also in his willingness to be a leader at the local, state and national level,” Vonk said. “Jim is the current board chairman for the South Dakota Grassland Coalition and his vision and energy as a leader are a big reason the coalition has become one of the most effective and respected voices of grassland conservation and grass-based agriculture in the region.” Faulstich has set part of his ranch aside in conservation easements that will be critical for waterfowl and shorebird management, and is a cooperator in a variety of wildlife and grassland studies.

“It is fitting that this national honor is added to the statewide and regional recognition Jim has received,” Vonk said. [Willis editorial note: this story is from a SD Game, Fish and Parks press release. Jim, like Lyle Perman, also is very active in the SD Grassland Coalition.]

Ichthyology quiz answer from Page 1

Yes, of course that is a blue catfish. First one I ever caught, too. Lake Texoma, on the OK side. I assume Drs. **Scalet** and **Bertrand** especially appreciate this ichthyology quiz?

Donors via SDSU Foundation (April-August 2013)

We express our sincere thanks to all of our donors! Please remember that this is an imprecise science, and if you thought you made a donation within this time period, it may simply appear earlier or later.

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Donors, continued

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PLEASE contact us with Alumni Updates. We get more positive feedback from people who appreciate these updates than anything else in the newsletter! Range Science and Environmental Management alumni – we especially need to hear from you!

Also, send those email address updates, corrections, and share the newsletter with friends and alumni so we can grow that email address list. Thanks for any help!

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