Animal Sciences Department
Annual Report
Calendar Year: January 1, 2011 – December 31, 2011

A. Department/Unit/College Goals and Priorities for the Past Year
   a. Teaching
      i. Implement new Animal Science curriculum
   b. Research
      i. Hire Grant Development Coordinator
      ii. Open and operate the new Beef Cattle Research Complex
   c. Extension
      i. Develop signature Extension programs

B. Provide Executive Summary of Accomplishments in Achieving the Goals and Priorities for the Past Year
   a. Teaching
      i. In 2011, major changes to the Animal Sciences curriculum were implemented. As part of a planning process that began approximately three years ago, the Animal Sciences curriculum was revised to provide additional options for our students. New options within the Animal Science major are: Meat Science; Livestock Media; Biomedical Science/Pre-Vet; Animal Production, Management, and Husbandry; and Animal Agribusiness. These options reflect the growing interests our students and employers have in these areas as well as the views of the faculty as to the need to modernize our curriculum. As part of this revision, our senior level livestock production courses were changed from 2 credits to 3 credits and we also implemented a requirement for an internship. Current students were given the option of continuing with the previous curriculum or picking up one of the new options. The department is experiencing record enrollment, in part, due to the new options we are offering in the Animal Science major.

   b. Research

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<th>Total</th>
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<tbody>
<tr>
<td>Peer Reviewed Publications (published or accepted)</td>
<td>53</td>
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<tr>
<td>National or International Invited Presentations</td>
<td>16</td>
</tr>
<tr>
<td>Juried Presentations/Performances/Exhibitions</td>
<td></td>
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<tr>
<td>Research Grants and Contracts</td>
<td>Cumulative Amount</td>
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<td>$2,182,943</td>
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   i. In 2011, the department hired a grant development coordinator. This position became available through a legislative initiative which enhanced infrastructure in the NDSU Agricultural Experiment Station. This position has proven to be an invaluable help to our faculty as they pursue grant funding by
identifying new grant funding opportunities, assisting with paperwork associated with grant submission, and grant budget development.

ii. In 2011, the department officially opened the Beef Cattle Research Complex, a state-of-the-art facility which will allow our scientists to conduct a variety of beef cattle research. It is one of only four facilities like it in North America, and the only one at a Land Grant university. Research related to nutrition, reproduction, meat science, nutrient management, genetics, animal health, behavior, food safety, economics, as well as a variety of other disciplines related to beef cattle production can be conducted in this facility. Research conducted in this facility will ultimately improve profitability and sustainability of beef cattle production by helping producers to more precisely meet the nutrient needs of their livestock, thus resulting in increased production efficiency. A 10% improvement in feed efficiency for North Dakota’s beef cow herd would translate into a nearly $30 million dollar impact to North Dakota beef cattle producers.

c. Service/Outreach/Extension

i. The department faculty has several highly visible Extension programming efforts, including BBQ Boot Camp, our signature Extension program. BBQ Boot Camp has been quite popular and has allowed us to reach consumer audiences that we have not typically reached with traditional programs. In 2011, the NDSU BBQ Boot Camp team traveled to 8 locations in North Dakota and provided educational programming to over 800 people. The department also hosts Moos, Ewes & More, an annual event designed to showcase the department and our relationship with people in the Fargo-Moorhead community. Last year, nearly 500 people attended the educational event. Both of these events involve a number of faculty, staff, and students who do not have formal Extension appointments.

C. Department/Unit/College Goals and Priorities for the Coming Year

a. Overall Departmental Goals

i. Improve visibility with students, stakeholders, and alumni
   1. Revamp the departmental web site
   2. Create an alumni newsletter

ii. Develop an 'onboarding' process to more effectively integrate new employees into the department

b. Teaching

i. Prepare for accreditation visit for the Veterinary Technology Program

ii. Fill vacancy created by the promotion of Dr. David Buchanan

c. Research

i. Develop a more sustainable funding model for operation of the Advanced Imaging and Microscopy Laboratory

d. Extension

i. Develop more in-depth training opportunities for county Extension agents