Dr. Jack C. Whittier, Professor
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Colorado State University

Knowledge to Go Places

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Wednesday, October 31, 2012

Search Advisory Committee, NCTA Dean
c/o Office of the NU Vice President and IANR Vice Chancellor
University of Nebraska-Lincoln
P.O. Box 830708
202 Agricultural Hall
Lincoln, NE 68583-0708

Dear Search Advisory Committee,

Thank you for the opportunity to apply for the position of Dean of the Nebraska College of Technical Agriculture (NCTA). I was honored when I received notice that I had been nominated to apply for this position.

When I received the position announcement I was not initially inclined to apply, since I am very happy in my current position at Colorado State University and am not looking for a move. However, as I considered it further, I became more intrigued with this position and began to wonder if having a new challenge would be beneficial to me. Since receiving the invitation to apply I have spoken on the phone with Dr. Ronnie Green, Dr. Don Adams and the current NCTA Dean, Dr. Weldon Sleight. With each conversation, my interest has increased and after counseling with my wife, Robynn, I have decided to make application for this position.

I believe I meet all of the advertized qualifications; I earned a PhD in Animal Science from the University of Nebraska in December 1985. My PhD advisor was Dr. Don Clanton, at the North Platte Station (now WCREC), so I am fairly well acquainted with Southwestern Nebraska. My additional qualification will be addressed in the other materials accompanying my application.

The Nebraska College of Technical Agriculture has received a great deal of notoriety in the agricultural press in the last couple of years. I believe this is primarily due to the development of the specialty programs: 100 Acre Farm Advantage and 100 Beef Cow Advantage programs. These are two very exciting and innovative opportunities for students at NCTA, and will have an impact on a new generation of farmers and ranchers. The five academic majors offered by NCTA, along with the available on-line courses, and specialty programs appear to me to provide wonderful opportunities to students. I am excited about the possibilities that exist at NCTA.

Thank you for the opportunity to apply and be considered for Dean of Nebraska College of Technical Agriculture. I am happy to answer any questions you may have as you evaluate applications. My contact information is provided above.

Sincerely,

Jack C. Whittier

Jack C. Whittier
Professor and Extension Beef Specialist

Jack C. Whittier, Ph.D.

Professor and Extension Beef Specialist
Colorado State University

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Present Position Description:

Extension and Teaching	55%	Extension Beef Specialist; Bovine Reproductive Management
Research	35%	Beef Cattle Nutrition and Reproductive Management.
Service	10%	University Service

Education:

University Attended	Degree	Year	Major
University of Nebraska	PhD	1985	Ruminant Nutrition
Utah State University	MS	1981	Animal Science
Utah State University	BS	1979	Animal Science

Academic Appointments:

Institution	Rank/Appointment	Year
Colorado State University	Professor	May 1999 to present
Colorado State University	Tenure	July 1997
Colorado State University	Associate Professor	Feb 1995 to May 1999
University of Missouri	Associate Professor with Tenure	Sept 1992 to Feb 1995
University of Missouri	Assistant Professor	Jan 1986 to Sept 1992
University of Nebraska	Graduate Research Assistant	Aug 1982 to Dec 1985
Utah State University	Instructor	1981 - 1982

Honors and Awards:

Distinguished Extension/Outreach Program Group Award. The American Agricultural Economics Association. Annual Meeting, Portland, Oregon 30 July 2007. Project Title: "U.S. Livestock Identification Systems: Risk Management and Market Opportunities. Co-Project Leaders: Wendy J. Umberger and **Jack C. Whittier**, Colorado State University.

Dr. Whittier was nominated by the Department of Animal Science for the Charles N. Shepardson Meritorious Teaching Award in March 2007.

CSU Research Foundation – Honored Researcher for Academic Year 2001-2002

Outstanding Extension Award - Western Section American Society of Animal Science, 1998.

Provost's Award for Creative Extension Programming by New Faculty. University of Missouri, 1988.

Professional Accomplishments in Brief:

- Research has emphasized practical, cost-effective nutrition and supplementation practices for wintering beef cows grazing dormant winter range.
- Research efforts have focused on manipulation of estrous cycles in beef cows and heifers to facilitate artificial insemination and genetic improvement.
- Served as major professor for 27 graduate students who have completed graduate degrees (and currently advises two students; 1 MS; 1 PhD). Served on numerous graduate committees at the University of Missouri and Colorado State University.
- Member of the American Society of Animal Science and American Registry of Professional Animal Scientists.
- Authored or co-authored 31 refereed publications and 276 non-refereed and extension papers.
- Extension programs have centered on Integrated Resource Management activities to assist beef producers in low-cost, high profit production and management.
- Presented invited research and extension international talks in San Jose, Costa Rica; Goiania, Brazil; San Pedro, Brazil; Berlin, Germany; Koktal Village, Kazakhstan; Saratov, Russia.
- Past President, Western Section American Society of Animal Science. 2003-2004.
- Section Chair, Forages and Pastures, American Society of Animal Science, 2003-2004; Nominating Committee, ASAS, 2004-2005.
- Reviewer for Journal of Animal Science, Animal Production Science and other associated scholarly activities.
- Editorial Board for The Professional Animal Scientist.
- Development and naming of CO-Synch estrous synchronization protocol for timed insemination of beef cows: **Dr. Whittier** and a close colleague at CSU, Dr. Tom Geary, were the first to develop and subsequently name (The Professional Animal Scientist 14:217-220) an estrous synchronization protocol known as CO-Synch. This protocol is widely used in the industry today and was a modification of an earlier protocol (OvSynch) designed to simplify and make this approach more applicable to beef cattle systems.
- Being quoted on Paul Harvey News and Comment: A news release from the Missouri Ag News titled “One bull can do work for two” resulted in story being aired on Paul Harvey News and Comment as follows:

  > "AGRIBUSINESS.... Missouri Animal Scientist, **Jack Whittier**, says one bull for a herd of 25 cows is not economical. He says there's no reason that one bull cannot serve 40 cows, cutting breeding costs in half. Now this assumes they will not run up the hill...GOOD DAY!!" April 21, 1993.

Teaching:

Dr. Whittier is involved in teaching in both Cooperative Extension and Resident Instruction. His philosophy of teaching in both arenas is founded in the concept that the learner is better equipped and motivated to learn when the topic and material are tangible and practical.

Cooperative Extension. With extension audiences the need for the information must first be established. This is done by relating the topic of discussion to an "on-ranch" situation with real-life circumstances and problems. Once the need is established, he believes it is vital to teach the principles related to the topic so the producer is equipped to make decisions based on knowledge of the full scope of the system, not simply based on static circumstance. Therefore, he endeavors to lay out a science-based plan that relies on pertinent, sound research that incorporates the principles involved and teaches the decision-making process, rather than the textbook answer.

For example, if the extension teaching setting involved the topic, "Cost effective winter supplementation of beef cows," **Dr. Whittier** would first lay out the principles of nutrition and supplementation. A real-life situation would be developed with actual nutrient levels and available supplementation options. The supplement would be characterized to identify the attributes and circumstances where it should be applied, relying on refereed research information as the basis for this recommendation. The producer would be actively involved in identifying these characteristics and arriving at a plausible application. He has found that when producers are given the opportunity to learn in a "hands-on" environment, they retain more information and are better trained to make good decisions for themselves.

One extension program where this philosophy has worked very well is in Calving Management Workshops. **Dr. Whittier** has teamed with Dr. Bob Mortimer, from the College of Veterinary Medicine to develop half-day workshops to teach cattle producers about calf delivery. This workshop is based largely on experiential learning exercises using case studies, visual aids and actual calf delivery. **Dr. Whittier's** objective is to teach principles of production and management to reduce the incidence of calving difficulty. Dr. Mortimer, teaching principles of obstetrics when calving difficulty is encountered, follows this. A manual for these workshops was first published in January 1998, with a revision being completed for 1999. Currently this manual is being developed for publication as a textbook. By using a "show and tell" format for this and other educational programs, a beneficial learning environment is developed.

Dr. Whittier's strengths as an Extension Educator were recognized by his peers when he was selected a as winner of the Extension Award from the Western Section of the American Society of Animal Science in July 1998.

Recent Extension Activities:

- Tri-State Ranch Practicum

  The Colorado Ranch Practicum is a cooperative endeavor between Colorado State University and Colorado Cattlemen's Association designed to give beginning ranchers fundamental skills in range livestock production and ranch management. To assist in the development of the next generation of ranchers the Colorado Ranch Practicum is designed to equip young and beginning ranchers to be successful.

  Current participants are: beginning ranchers, ranch workers wanting to become ranch owners, and existing established ranchers. Colorado Ranch Practicum is not specifically age driven, but rather is seeking to engage those individuals looking for further beef industry guidance and education.

Over a nine-month, three-season period of time, participants receive an overview of ranching practices from new perspectives. The curriculum covers decision support tools to evaluate management and marketing alternatives, plant identification, range conditions and grazing strategies, wildlife management, evaluation of cow body condition scores and beef cattle production systems.

Classroom and on-the-ground activities are being held at various locations including CSU and USDA research centers and ranches.

Participants will also be involved in a mentorship program which is designed to provide beginning ranchers with external resources and a network of relationships with experienced ranchers to help establish support. **Dr. Whittier** is the principal leader for this program.

- One of the primary extension activities **Dr. Whittier** has been involved with over the past 17 years at Colorado State is the Range Beef Cow Symposium. This event is coordinated between the Extension Services and Departments of Animal Science at Colorado, Nebraska, Wyoming and South Dakota. It is held every other year and rotates among the sponsoring states. Each time this has been held since Dr. Whittier joined CSU, he has been actively involved as a RBCS committee member. In 2007, the 20th symposium was hosted by Colorado State University with **Dr. Whittier** as symposium chair. A significant amount of time was devoted to planning, arranging speakers, arranging for the facilities to be used, preparing the proceedings and carrying out this event. The symposium was successful - based on the 700+ people who participated and the over 125 industry booths in the trade show. CSU will again host in 2015.

- **Dr. Whittier** is a team member of the eXtension Beef Community of Practice. Under the leadership of Dr. Rick Rasby, University of Nebraska, the Beef COP has compiled numerous resources under the title of Beef Cattle Clearing House. This educational tool is currently operational. Dr. Whittier replies to inquires from this tool regularly.

- Animal identification and premises registration was the focus of numerous activities and efforts in recent years. Two grants from the Colorado Department of Agriculture helped facilitate educational efforts and increase awareness of the need and value to livestock producers for animal identification procedures.

- **Dr. Whittier** has served as a member of the Colorado Animal Identification Task Force. This body was assembled by the Colorado Commissioner of Agriculture to advise in matters dealing with animal identification. This group meets periodically in Denver.

- **Dr. Whittier** plays a leadership role in the Western Beef Resource Committee and attends their annual meeting typically held in Reno, NV in February each year. Among other things, this group assembles, revises and updates the Cow-Calf Management Guide and Cattle Producer's Library. This publication is a collection of over 250 fact sheets dealing with cow-calf production in the Western U.S. During the past few years, **Dr. Whittier** has guided the placement of this publication on the internet housed at the CSU Beef Team website at Colorado State University.

- **Dr. Whittier** has been a key facilitator of the development and coordination of the CSU Beef Team. The Beef Team maintains a website for current beef cattle educational materials, including on-line access to the Cow-Calf Management Guide and Cattle

Producer's Library – a task that CSU was given by the Western Beef Resource Committee which is comprised of beef extension specialist from 12 western U.S. states. Since this on-line version was made available in late 2006, there have been over 70,000 downloads of factsheets from this manual. Additional Beef Team activities include a producer tour of key ranching operations each summer and a study-tour for Beef Team members to assure that they are current with industry trends and issues.

Resident Instruction. **Dr. Whittier's** primary academic teaching assignment has been in extension. However, he has had various classroom teaching duties both at the University of Missouri and Colorado State University.

The CSU Department of Animal Sciences developed a series of half-semester courses (AN300) beginning in 1996. **Dr. Whittier** was assigned to develop and teach two of these courses; Replacement Heifer Development and Livestock Identification. Both courses involve guest lecturers from industries and organizations along with field trips to allow students to experience first-hand the topics presented in lecture. A strong emphasis is placed on discussion of assigned readings as a way of getting the students actively involved in learning.

In addition, **Dr. Whittier** taught AN420a from 1996 to 2000. This course was not taught for several years until **Dr. Whittier** was hired in 1995. He revived and revised the course to train students in applications of ruminant nutrition, based on principles learned in lower division nutrition courses. This course was passed to another faculty member to teach in 2000.

In 2002, **Dr. Whittier** assumed the role of instructor for a senior/graduate student level course titled "Bovine Reproductive Management" (ANEQ 510) which was developed as a capstone course to provide integration and application of facts and information learned during a student's undergraduate studies. This course has been received very well by students and routinely garners high student evaluations. Below are select comments from Student Evaluations of ANEQ510:

> "<u>This was definitely my favorite course I have ever taken here at CSU</u>. **Dr. Whittier** did a great job even though he was not well. He still made himself very available. He showed his passion and love for this industry. I felt I learned a lot!"
>
> **"Dr. Whittier** was excellent, I enjoyed his class sessions. I liked how easy it was to approach him, in and outside of class. <u>This has been by far one of my favorite classes of my college career.</u>"

Additional Comment: During Colorado State University College of Agricultural Sciences graduation an exit survey is given to graduating seniors. One of the questions is "Name a faculty or staff member who was a positive influence on you during your college career." Students mentioned **Dr. Whittier** as a person who made a positive influence on them for the effort, time, care and positive influence provided to help them succeed.

Industry and University Service:

- Board of Directors – American Society of Animals Science, Western Section Director, 2010-2013. Member of ASAS Executive Committee, 2012-13
- Ex-officio Board Member of Colorado Livestock Association and Colorado Cattlemen's Association
- Past-President Western Section ASAS
- Active in church and Boy Scout leadership

Sabbaticals and Development Leaves:

Date	Type	Activity
Jan to Jun 2012	Advisor to Students	Semester Abroad at in New Zealand

CSU has an agreement with Lincoln University near Christchurch, New Zealand for exchanging students for a semester abroad. The agreement includes funding for a faculty member to accompany the students to provide mentoring and advisorship. **Dr. Whittier** and his wife were selected for this assignment in 2010. This was a wonderful opportunity to experience agriculture in another part of the world and gain insight into teaching approaches at a small agricultural university.

July 2002 to July 2003	Sabbatical Leave	Animal Identification

Dr. Whittier worked in research and development in the area of animal identification, source verification and traceback. He worked with Optibrand Ltd., LLC, a "spin-off" company from Colorado State University Research Foundation (CSURF). His report of the sabbatical leave is available upon request. This sabbatical followed the premature termination of a sabbatical with Future Beef, Inc. who went out of business soon after **Dr. Whittier** began his leave with them.

June-September 1992	Short-term Development	Deseret Ranches of Florida

While a faculty member at the University of Missouri, **Dr. Whittier** participated in a 4-month development leave at Deseret Ranches of Florida, a large-scale cow-calf business in Central Florida. Approximately one-half of his time was spend with the management of the ranch learning production and management systems; the other half was spent on the cattle units learning first-hand the production methods. This was a tremendous learning experience that prepared **Dr. Whittier** to view cattle production in a much broader business perspective.

Integrated Resource Management:

Colorado State University has a long and fulfilling history of involvement with Integrated Resource Management. Soon after **Dr. Whittier** joined CSU in 1995, he became chairman of the CSU IRM Core Committee. This committee oversees educational and applied research efforts on a state-wide basis while working closely with local IRM teams. At that time it administered an $80,000 budget from Cooperative Extension and the Agricultural Experiment Station at CSU.

Example recognition and stature of IRM at CSU: In 1998 the IRM Program was nominated by three deans and two directors for consideration as a "Program of Research and Scholarly Excellence" at Colorado State University. This is a campus-wide recognition that designates two to three programs for special recognition and funding by the University President. While the IRM program was not chosen for the final list, it did receive significant recognition during the evaluation process. Comments from the Vice President of Research included: "The IRM nomination documented its significant impact on animal agriculture in Colorado. The interdisciplinary nature of the program is the source of its success and is most commendable."

Current IRM efforts are centered on a Master of Agriculture degree program to provide students a unique opportunity to combine classroom training with abundant hands-on, problem-solving

experiences. Through a modular format IRM students complete one two-week intensive course before another begins. Classes meet everyday, eight hours a day, and combine traditional blackboard discussions with abundant hands-on, problem-solving experiences working with faculty and highly regarded resource managers in the field. This approach maximizes hands-on teaching and interaction between faculty and students as well as the applicability of the course material to actual land-management scenarios. **Dr. Whittier** was actively involved in the development of this program and currently teaches one of the two-week modules.

Publication List for Dr. Jack C. Whittier
Current: October 2012

Refereed Journal Publications

Manuscripts accepted, not yet in print:

Seabrook, J. L., G. E. Seidel, Jr, **J. C. Whittier**, J. K. Ahola, R. K. Peel, and A. V. Grove. 2012. Effect of Two, Four, and Six-Hour Intervals between two Prostaglandin F2α Injections Administered with Five-d CO-Synch + CIDR protocol on Pregnancy Rate in Beef Cow. The Professional Animal Scientist. Accepted for publication, 08-Oct-2012; waiting for batch assignment.

French, J. T., J. K. Ahola, **J. C. Whittier**, R. L. Giles, P. E. Repenning, G. E. Seidel, Jr, and R. K. Peel. 2012. Ovarian response and timed artificial insemination pregnancy rates in beef heifers after synchronization of follicular waves and ovulation via a 14-day controlled internal drug release insert estrous synchronization protocol. The Professional Animal Scientist. Accepted for publication 29-Oct-2012; waiting for batch assignment.

Manuscripts in review:

Giles, R. L., J. K. Ahola, **J. C. Whittier**, J. T. French, P. E. Repenning, S. G. Kruse , G.E. Seidel Jr., and R. K. Peel. 2012. Administration of a GnRH analogue on day 9 of a 14-day controlled internal drug release insert with timed AI in lactating beef cows. J. Anim. Sci. In 2nd revision review.

French, J. T., J. K. Ahola, **J. C. Whittier,** W. M. Frasier, R. M. Enns, and R. K. Peel. 2012. Differences in lifetime productivity of beef heifers that conceived to first service artificial insemination (AI) or a clean-up bull via natural service (NS) as a yearling and among females that were offspring of an AI or NS mating. The Professional Animal Scientist. In 2nd review.

Published Manuscripts

Peel, R. K., J.K. Ahola, W. D. Whittier, **J. C. Whittier**, and A. V. Grove. 2010. Effect of Calf Separation During the Twelve Hour Interval Between Two Prostaglandin F2α Injections When Using the Five-day CO-Synch + CIDR Synchronization Protocol on Pregnancy Rate in Beef Cows. The Professional Animal Scientist 26:534–539.

Peel , R.K., **J. C. Whittier**, R. M. Enns , A. V. Grove , and G. E. Seidel Jr. 2010. Effect of 6- Versus 12-Hour Interval between 2 Prostaglandin F**2α** Injections Administered with 5-Day CO

Synch + Controlled Internal Drug-Release Protocol on Pregnancy Rate in Beef Cows. The Professional Animal Scientist 26:307–312.

Richardson, R. D., R. G. Mortimer, and **J. C. Whittier**. 2010. Comparison of Fetal Losses from Diagnosis of Pregnancy Using Ultrasonography or Rectal Palpation in Beef Heifers by Novice or Experienced Technicians. The Professional Animal Scientist 26:341-346.

Ahola, J. K., G. E. Seidel, Jr., and **J. C. Whittier**. 2009. Use of Gonadotropin-Releasing Hormone at Fixed-Time Artificial Insemination at Eighty or Ninety-Seven Hours Post Prostaglandin $F_{2\alpha}$ in Beef Cows Administered the Long-Term Melengestrol Acetate Select Synch. The Professional Animal Scientist 25:256-261.

Hyland, A., G. E. Seidel Jr., R. M. Enns, R. K. Peel, and **J. C. Whittier**. 2009. Intervals of Five or Seven Days Between Controlled Internal Drug-Release Insertion, Gonadotropin-Releasing Hormone, and Prostaglandin F2α Injections: Effects on Pregnancy Rate and Follicular Size. The Professional Animal Scientist 25:150–154.

Mount, D. E., T. J. Steffens, D. N. Schutz and **J. C. Whittier**. 2009. Fibrous and Non-Fibrous Carbohydrate Supplementation to Ruminants Grazing Forage from Small Grain Crops. The Professional Animal Scientist 25:139–144.

Whittier, J. C., G. P. Lardy, and C. R. Johnson. 2005. Symposium Paper: Pre-Calving Nutrition and Management Programs for Two-Year-Old Beef Cows. The Professional Animal Scientist 21 (2005):145–150.

Ahola, J.K., D.S. Baker, P.D. Burns, **J.C. Whittier**, and T.E. Engle. 2005. Effect of Copper, Zinc and Manganese Source on Mineral Status, Reproduction, and Calf Performance in Young Beef Females over a Two-Year Period. The Professional Animal Scientist 21:297–304.

Walker, R. S., P. D. Burns, **J. C. Whittier,** G. E. Sides, and D. D. Zalesky. 2005. Evaluation of Gonadotropin-Releasing Hormone and Insemination Time Using the CO-Synch Protocol in Beef Cows. The Professional Animal Scientist 21:190-194.

Miller, K.E., **J. C. Whittier**, R. K. Peel, R. M. Enns, J. E. Bruemmer, and W. J. Umberger. 2004. Case Study: Comparison of Breeding and Marketing Systems for Red Angus Cows Using an Integrated Computer-Based Spreadsheet. The Professional Animal Scientist 20:429–436

Mackay, W. S., **J. C. Whittier**, T. G. Field, W. J. Umberger, R. B. Teichert, and D. M. Feuz. 2004. Case Study: To Replace or Not to Replace: Determining Optimal Replacement Rates in Beef Cattle Operations. The Professional Animal Scientist 20:87-93.

Burns P.D., T.E. Engle, M.A. Harris, R.M. Enns, **J.C. Whittier**. 2003. Effect of fish meal supplementation on plasma and endometrial fatty acid composition in nonlactating beef cows. J. Anim. Sci.81:2840-2846.

Whittier, J.C., J.A. Shadduck, B.L. Golden. 2003. Secure identification, source verification of livestock – The value of retinal images and GPS. Precision Livestock Farming. First Published, 2003. Page 167. Wageningen Academic Publishers, The Netherlands. ISBN 9076998221. (peer refereed by an international panel).

Roeber, D.L., N.C. Speer, J.G. Gentry, J.D. Tatum, C.D. Smith, **J.C**. **Whittier**, G.F. Jones, K.E. Belk, and G.C. Smith. 2001. Feeder cattle health management: Effects on morbidity rates, feedlot performance, carcass characteristics, and beef palatability. The Professional Animal Scientist, 17:39-44.

Geary, T.W., **J.C. Whittier**, D.M. Hallford, and M.D. MacNeil. 2001. Calf removal improves conception rates to the Ovsynch and CO-Synch protocols. J. Anim. Sci. 79:1-4.

Geary, T.W., R.R. Salverson and **J.C. Whittier**. 2001. Synchronization of ovulation using GnRH or hCG with CO-Synch protocol in suckled beef cows. J. Anim. Sci. 79:2536-2541.

Smith, C.D., **J.C. Whittier**, D.N. Schutz and D. Couch. 2001. Comparison of alfalfa hay and distillers dried grains with solubles, alone or in combination with cull beans, as protein sources for beef cows grazing native winter range. The Professional Animal Scientist. 17:139-144.

Stanton, T.L., **J.C. Whittier**, T.W. Geary, C.V. Kimberling and A.B. Johnson. 2000. Effects of trace mineral supplementation of cow-calf performance, reproduction and immune function. The Professional Animal Scientist, 16:121-127.

Geary, T.W., E.R. Downing, J.E. Bruemmer and **J.C. Whittier**. 2000. Ovarian and estrous response of suckled beef cows to the Select Synch estrous synchronization protocol. The Professional Animal Scientist. 16:1-6.

Patterson, H.H., **J.C. Whittier**, and L.R. Rittenhouse. 1999. Effects of cull beans, sunflower meal, and canola meal as protein supplements to beef steers consuming grass hay on *in situ* digestion kenetics. The Professional Animal Scientist. 15:185-190.

Patterson, H.H., **J.C. Whittier**, L.R. Rittenhouse, and D.N. Schutz. 1999. Performance of beef cows receiving cull beans, sunflower meal, and canola meal as protein supplements while grazing native winter range. J. Anim. Sci. 77:750-755.

Whittier, J.C., Weech, B.L., M.C. Lucy, D.H. Keisler, M.F. Smith and R.M. Corwin. 1999. Effect of anthelmintic treatment on sexual maturation in prepubertal beef heifers. J. Anim. Sci. 77:736-741.

Meek, M.S., **J.C. Whittier** and N.L. Dalsted. 1999. Estimation of Net Present Value of beef females of various ages and the economic sensitivity of net present value to changes in production. The Professional Animal Scientist 15:46-52.

Munson, C.L., **J. C. Whittier**, D.N. Schutz, and R.L. Anderson. 1999. Reducing annual cow cost by grazing windrowed millet. The Professional Animal Scientist 15:40-45.

Geary, T.W. and **J.C. Whittier.** 1998. Effect of timed insemination following synchronization of ovulation using the Ovsynch or CO-Synch protocol in Beef Cows. The Professional Animal Scientist 14:217-220.

Geary, T.W., **J.C. Whittier,** E.R. Downing, D.G. LeFever, R.W. Silcox, M.D. Holland, T.M. Nett, G.D. Niswender. 1998. Pregnancy rates of postpartum beef cows synchronized using Syncro-Mate-B or the Ov-Synch protocol. J. Anim. Sci.76: 1523-1527.

Purvis, H. T. and **J. C. Whittier**. 1997. Use of short-term progestin treatment to re-synchronize second estrus following synchronized breeding in beef heifers. Theriogenology. 48:423-434.

Purvis, H. T. and **J. C. Whittier**. 1996. Effects of ionophore feeding and anthelmintic administration on age and weight at puberty in spring-born beef heifers. J. Anim. Sci. 74:736-744.

Werth, L. A., **J. C. Whittier**, S. M. Azzam, G. H. Deutscher, and J. E. Kinder. 1996. Relationship of circulating progesterone to conception at the first postpartum estrus in young beef cows. J. Anim. Sci. 74:616-619.

Purvis, H.T., **J.C. Whittier**. S.L. Boyles, L.J. Johnson, H.D. Ritchie, S.R. Rust, D.B. Faulkner, R.P. Lemenager and K.S. Hendrix. 1994. Weight gain and reproductive performance of spring-born beef heifer calves intra-ruminally administered oxfendazole. J. Anim. Sci. 72:817-823.

Jeager, J.R., **J.C. Whittier**, L.R. Corah, J.C. Meiske. 1992. Reproductive response of yearling beef heifers to a melengestrol acetate-prostaglandin $F_{2\alpha}$ estrus synchronization system. J. Anim. Sci. 70:2622.

Whittier, J.C., R.W. Caldwell, R.V. Anthony, M.F. Smith, and R.E. Morrow. 1991. Effect of prostaglandin F_{2a} injection 96 hours after introduction of intact bull on distribution of estrus and pregnancy in cycling beef cows. J. Anim. Sci. 69:4670-4677.

Caldwell, R.W., **J.C. Whittier**, M.F. Smith, R.E. Morrow and R.V. Anthony. 1990. Parturition in beef cows following administration of porcine relaxin at ten days prepartum. Theriogenology 33:613-625.

Hsieh, F., H.E. Huff, I.C. Peng, **J.C. Whittier**, E.G. Schmitz, and J.A. Paterson. 1990. Studies of whole cottonseed extrusion with a twin-screw extruder. J. Food Eng. 12:293-306.

Whittier, J.C., D.C. Clanton, and G.H. Deutscher. 1988. Effect of varying weight gain during the last trimester of gestation on productivity of bred heifers. Anim. Prod. 47:53-57.

Whittier, **J.C**., D.C. Clanton, and G.H. Deutscher. 1988. Effect of post-partum levels of nutrition on productivity of two-year-old heifers. Anim. Prod. 47:59-64.

Whittier, J.C., G.H. Deutscher, and D.C. Clanton. 1986. Progestin and Prostaglandin for Estrous Synchronization in Beef Heifers. J. Anim. Sci. 63:700-704.

Major Grants and Contracts

Colorado State University – 1995 to present

Title of Project	Sponsor	Start/End Dates	Funding Amount, $	P.I./Co-PI
Tri-State Ranch Management Practicum Beginning Rancher Education and Development Program	USDA-NIFA	2011-2014	Overall $315,770 CSU Portion $130,581	PI for CSU. Includes CO, WY, NE
Evaluating the Ability of Passive Monitoring of Reticulo-Rumen Temperature (Trr) to Predict Time of Parturition in First-Calf Dairy Heifers	DVM Systems, Inc.	2011-2012	$7,500	Co-PI
Comparing the Lifetime Productivity of Beef Heifers Sired by A.I. vs. Natural Service.	Select Sires, Inc.	2011-2012	$5,000	Co-PI
Evaluating the Ability of Passive Monitoring of Reticulo-Rumen Temperature (Trr) to Predict Time of Ovulation in Lactating Dairy Cows	DVM Systems, Inc.	2010-2011	$100,000	PI
Evaluation of estrous synchronization protocols in beef cows	Pfizer Animal Health	Apr 09 to Dec 09	$18,426	PI
Evaluation of estrous synchronization protocols in beef cows	Merial Ltd.	Apr 09 to Dec 09	$1,900	PI
Evaluation of estrous synchronization protocols in beef cows	Pfizer Animal Health	Apr 08 to Dec 08	$14,692	PI
Evaluation of estrous synchronization protocols in beef cows	Merial Ltd.	Apr 08 to Dec 08	$3,300	PI
Evaluation of estrous synchronization protocols in beef cows	Western Center for Integrated Resource Management	Apr 08 to Dec 08	$18,600	PI
Educational Livestock Video Project	CSU Extension Innovation Grants	2008	$4,500	Co-PI
Beef Work Team Activities	CSU Extension	2008	$2,000	Co-PI
Applied Reproductive Strategies in Beef Cattle Symposium	National Association of Animal Breeders, Beef Reproduction Task Force, Program Participants	Jul 08 to Jan 09	$30,616	Co-PI
Range Beef Cow Symposium	Industry Support	December 2007	$83,866	PI
2007 Colorado Department of Agriculture and Colorado State University Focus on Animal ID and Premises Registration	Colorado Department of AG with USDA-APHIS Cooperative Agreement	1/1/2007 to 12/31/2007	$62,000	Co-PI – Steve LeValley
Strengthening Identification of High-Risk Animals with a Novel Identification Method	New Mexico Livestock Board	1/1/2007 to 7/1/2008	$90,000	PI
Estrous Synchronization products for research studies	IVX Animal Health and Pfizer Animal Health	3/1/2007 to 10/31/2007	$11,400	PI
2006 Colorado Department of Agriculture and Colorado State University Mini-Grant Educational Efforts Related to Animal Premises Registration	Colorado Department of AG with USDA-APHIS Cooperative Agreement	8/1/2006 to 12/31/2006	$209,874	Co-PI – Steve LeValley

Title of Project	Sponsor	Start/End Dates	Funding Amount, $	P.I./Co-PI
Animal ID Town Hall and Train-the Trainer Meetings 2005	Colorado Department of Agriculture	1/1/2005 to 12/31/2005	$11,459	Co-PI – Steve LeValley
Applications of Novel Approaches to Animal Traceability	Optibrand LTD, LLC	3/1/2005 to 12/31/2005	$29,237	PI
Mandatory Cattle Identification: Risk Management and Market Opportunities	Western Center for Risk Management Education	2004	$40,000	Co-PI with Wendy Umberger
An Animal Identification Education Program for Beef Producers	LMIC Initiatives Grant	2004	$10,013	Co-PI with Wendy Umberger
2003 Range Beef Cow Symposium	Industry Support	2003	$19,553	Co-PI with NE, SD, WY[p
Effect of organic trace mineral on reproductive performance in grazing beef cows	Quali Tech	12/31/03 to 12/31/04	$27,566	Co-PI – Pat Burns
Effects of Cow-Calf Trace Mineral Supplementation	Zinpro Corp.	5/1/00 to 12/31/01	$94,260	Co-PI – Terry Engle
Support for Sabbatical Leave	Optibrand Ltd, LLC	09/01/02 to 06/01/03	$35, 797	PI
Effects of Trace Mineral Source on Performance and Immune Status of Cows and Their Calves from Birth Through Slaughter	Alltech, Inc.	1/1/01 to 12/31/02	$92,989	Co-PI – Terry Engle
Fertagyl for Estrous Synchronization Studies	Intervet	1/1/01 to 6/30/02	$1,500	PI
Lutalyse for Estrous Synchronization Studies	Pharmacia and Upjohn	1/1/01 to 6/30/02	$756	PI
Estrous Synchronization Using GnRH and bST.	Intervet (Fertagyl)	4/1/00 to 12/30/00	$9,504	PI
Estrous Synchronization Using GnRH and bST	Pharmacia and Upjohn Animal Health (Lutalyse)	4/1/00 to 12/30/00	$4,284	PI
Prevention of High Altitude Disease Losses in Beef Cattle Utilizing PAP Test Scores, EPDs, and Gene Mapping Techniques	Western Region Sustainable Agriculture Research and Education – Farmer/Rancher Section	5/1/02 to 3/1/03	$7,500	Robinett, J. (Rancher)
Use of electronic estrus detection technology in bovine reproductive management research	CSU Ag Experiment Station Animal Science DDx, Inc. Denver, CO	4/19/99 One time allocation	$2,500 $2,000 $5,500	Co-PI Pat Burns
Replacement Heifer Selection and Development	CSU Integrated Resource Management	1/1/95 to 6/30/97	$41,200	PI
Colorado Beef Cattle Education Programs	CSU Integrated Resource Management Program	7/1/96 to 6/30/97	$9,000	PI
Rocky Mountain Ranch to Rail	Horton Feedlots, Inc.	11/15/95 to 8/15/98	$10,312	PI
Beef Cattle Research Activities	Colorado Agricultural Experiment Station	7/1/95 to 6/30/99	$8,000	PI

Title of Project	Sponsor	Start/End Dates	Funding Amount, $	P.I./Co-PI
		Co-Investigator		
Community-based Livestock Integrated Resource Management	Fund for Rural America, USDA	9/1/97 to 8/31/01	$250,000	CSU IRM Team
Synchronization of Ovulation using hCG of GnRH with the CO-Synch Protocol in Suckled Beef Cows	National Association of Animal Breeders	7/1/98 to 6/30/99	$14,980	Tom Geary, Co-PI
Value of Estrous Synchronization and Natural Service for Colorado Beef Producers	CSU CES Initiative Grant	2/24/97 to 4/30/98	$3,875	Tom Geary, Co-PI
Artificial Insemination Internship Initiative	CSU CES Initiative Grant	2/24/97 to 4/30/98	$3,500	Tom Geary, Co-PI
Effect of Trace Mineral Supplements on Cow-Calf Performance	Zinpro, Corporation	2/1/97 to 6/30/99	$9,000	Tim Stanton, Co-PI
Effect of Calf Removal and Time of Insemination on Pregnancy Rates in Suckled Beef Cows Inseminated at a Fixed Time Following Synchronization of Estrus with Ov-Synch	National Association of Animal Breeders	7/1/97 to 6/30/98	$14,920	Tom Geary, Co-PI
Modifications of the Select Synch Protocol to maximize Pregnancy Rates in Beef Cows	Select Sires, Inc.	7/1/97 to 6/30/98	$11, 936	Tom Geary, Co-PI
Safety Trial for Moxydectin Injection in Breeding Bulls	Ft. Dodge Animal Health	2/1/97 to 9/1/98	$113,685	Dr. Robert Mortimer, PI
Estrous Synchronization Using GnRH and Prostaglandin	Rhone Merioux Animal Health	1/1/97 to 12/31/97	$20,108 (in product)	Tom Geary, Co-PI
Estrous Synchronization Using GnRH and Prostaglandin	Upjohn Pharmacia	1/1/97 to 12/31/97	$8,025 (in product)	Tom Geary, Co-PI
Estrous Synchronization Using GnRH and Prostaglandin	Bayer Animal Health	1/1/97 to 12/31/97	$2,500 (in product)	Tom Geary, Co-PI
Estrous Synchronization Using GnRH and Prostaglandin	Steris Labs	1/1/97 to 12/31/97	$4,080 (in product)	Tom Geary, Co-PI
Liquid Nitrogen Tanks for Semen Storage	MVE, Inc		$2,120 (in product)	Tom Geary, Co-PI
HeatWatch estrous detection systems and materials	DDx, Inc	1/1/97 to 12/31/97	$4,600 (in product)	Tom Geary, Co-PI
Synchronization and insemination of cooperating rancher herds	Colorado Cattle Producers		$7,422	Tom Geary, Co-PI

University of Missouri – 1986 to 1994

Year	Title	Granting Agency or Company	Amount
		Principal Investigator	
1991	The Effects of Parasitism on Weight Gain and Reproductive Efficiency of Replacement Heifer Calves Following Treatment with Oxfendazole	Syntex Animal Health, Inc. Des Monies, IA	$6,800

Year	Title	Granting Agency or Company	Amount
1992	Use of electronic identification in beef cattle management and production	USDA. Federal and State Market Improvement Program	$60,000
1990	Comparison of Weight Gain by Suckling Steer Calves Administered Calf-oid of Ralgro Implants	Ivy Laboratories, Inc. Overland Park, KS	$1,760
1990	Effect of a Single Calfhood Growth Promoting Implant in Reproductive Performance of Replacement Heifers.	Syntex Animal Health, Inc., Des Monies, IA	$2,190
1989	Effect of Varying Levels of Chelated Minerals on Fescue Toxicosis in Grazing Beef Cattle.	Albion Laboratories, Inc., Clearfield, UT	$18,500
1988	Development of Instructional Videos and Interactive Telephone Conferencing for Teaching Beef Production Practices	Innovative Projects in University Extension	$2,000
1988	Effect of Whole Herd Treatment with Liquamycin 200 on Pinkeye Prevention in Beef Cattle.	Pfizer, Inc., Lees Summit, MO	$2,500
1987 to 1991	Synovex Implants for Standard Implant Treatment of Research Animals.	Syntex Animal Health, Inc., Des Moines, IA	$2,500
1986 to 1991	Lutalyse for Estrous Synchronization Studies in Beef Cattle.	The Upjohn Company, Kalamazoo, MI	$2000
1986 to 1991	Evaluation of Two Composite Breeds of Cattle in a Northern Missouri Environment	U.S. Meat Animal Research Center, Clay Center, NE	$35,000 (in kind)
1986	DEPO-MGA for Estrous and Pregnancy Suppression in Pastured Beef Heifers	The Upjohn Company, Kalamazoo, MI	$13,500

Co-Investigator			
1991, 1992	Strategies for Reducing the Impact of Fescue Toxicosis on Beef Cattle Productivity	Missouri Agricultural Experiment Station ("C Budget")	$30,000
1991	Evaluation of Nutritional Programs on Missouri Commercial Livestock Operations	Commercial Agriculture Program	$28,320
1990	Interaction of Intensive Grazing Systems and Internal Parasites	MSD Agri-Vet, Inc., St. Louis, MO	$25,000
1989	Efficacy of Providing Mineral Supplements to Grazing Cattle	Missouri Research Assistance Act	$9,000
1988, 1989	Low-Input Beef Cattle and Forage Systems in the North Central Region	National Research & Extension Program on Low Input Sustainable Agriculture	$51,000
1988	Fly Control in Missouri Beef Herds	Innovative Projects in University Extension	$4,000
1988	Effect of Three Levels of Fescue Endophyte on Health Status of Beef Cows and Calves	Missouri Agricultural Experiment Station Special Assistance Fund	$2,175

Year	Title	Granting Agency or Company	Amount
1986	Effect of Using Fenbendazole at Spring Turn-out and Mid-summer on Calf Performance in Missouri.	Hoechst Roussel Agri-Vet Company, Somerville, NJ	$1,200

Graduate Students Trained by Dr. Whittier as Major Professor

	Student	Year Graduated	Degree	Went on to Complete PhD	Current Position/Location
1	Gene Schmitz	1989	M.S.		University of Missouri Extension, MO
2	Gene Gengelbach	1990	M.S.	x	Pioneer Livestock Nutrition, NC
3	Hebbie Purvis	1993	M.S.	x	Director of Research at Ralco Nutrition Inc.
4	Kristen Allen	1994	M.S.		Sara Lee Foods, AR
5	Bryan Weech	1996	M.S.		National Wildlife Federation, Parker, CO
6	Trey Patterson	1997	M.S.	x	Assistant Manager, Padlock Ranches, WY
7	Mike Meek	1998	M.S.		General Manager, Deseret Land and Livestock, Woodruff, UT
8	Cinch Munson	1998	M.S.		Manager of Product Quality and Innovation at Oxbow Animal Health
9	Dallas Mount	2000	M.S.		University of Wyoming Extension, WY
10	Holly Foster	2000	M.S.		California Beef Council, CA
11	Tom Sanders	2000	M.A.		Ranch Foreman Nebraska Sandhills, NE
12	Barbi Riggs	2001	M.S.		Family Ranch, Outlook, MT
13	Chad Smith	2001	M.S.		Director of Collections Compliance, National Beef Board, Denver, CO
14	Paulo Sampio	2001	M.S.		Family Ranching Business, Brazil
15	Kevin Miller	2001	M.S.		Family Ranch, Briggsdale, CO
16	Dan Baker	2002	M.S.		Director of US Food Animal Marketing, Elanco Animal Health Indianapolis, IN
17	Wes MacKay	2003	M.S.		Ranch Manager, Lemhi, ID
18	Jason Ahola	2004	Ph.D.		Faculty, Colorado State University, Fort Collins, CO
19	Valentin Aznarez	2005	M.S.		Food Company in Uruguay
20	Aaron Hyland	2006	M.S.		Hyland Cattle Company LLC, Big Springs, NE
21	Sandy Porter	2008	M.S.		Instructor at Treasure Valley Community College, Ontario, OR

	Student	Year Graduated	Degree	Went on to Complete PhD	Current Position/Location
23	Paul Repenning	2012	M.S.		Veterinary School, CSU
25	Ryan Giles	2012	M.S.		International Bovine Training Solutions, Loveland, CO
26	Bo Bigler	Expected 2013	M.S.		Currently Assistant Manager, CSU ARDEC
27	Miranda Sis	Expected 2013	M.S.		Student
28	Joao Costa, Jr	Expected 2013	Ph.D.		On PhD Sandwich Program at CSU from University of Brazil, Puerto Allegra, Brazil
29	Matt Markwood	Expected 2014	M.S.		Currently Assistant Manager, CSU ARDEC
30	Alex Yager	Expected 2014	M.S.		Student
31	Adel Uhlarik	Expected 2015	M.A.		Master of Agriculture International Peace Corp. Currently on Peace Corp assignment, will return to complete M.A. requirements in 2014.
32	Various students in the CSU Western Center for Integrated Resource Management (WCIRM) program who complete a non-thesis Master of Agriculture				Advisor or committee member for approximately 20 students in this program.

Qualifications and Relevance of Dr. Jack C Whittier
Applicant for Dean of the Nebraska College of Technical Agriculture

Doctoral Degree:

Earned PhD degree, December 1985, University of Nebraska. Degree in ruminant nutrition with emphasis in replacement heifer nutrition and development. Research was conducted at North Platte Station (currently West Central Research and Extension Center) and Gudmundsen Sandhills Laboratory under the supervision of Dr. Don Clanton.
Dissertation title: Effect of varying time of nutrient intake during two production stages on productivity of two-year-old beef heifers.

Understanding of academic principles and programs that involve the proper running of a self-standing college campus.

I have worked or been a student at four land-grant institutions. This experience has allowed me to gain understanding of academic principles and programs in this environment.

In addition, I conducted my M.S. research at Southern Utah State College (now Southern Utah University). My involvement at SUSC was as a student researcher, but this provided an opportunity to observe and learn somewhat of how this institution provided educational training to students.

I also advised a group of CSU students while on a 5-month study abroad at Lincoln University (http://www.lincoln.ac.nz/), a small agriculture university on the South Island in New Zealand. While at Lincoln I was actively involved with the animal industry faculty and regularly attended faculty meetings with this group. This gave me background on the workings of a comparatively small agricultural university.

Visionary academic and administrative leadership.

This is an area of qualifications that I do not have a specific record in. I have not been in a direct administration assignment up to this point in my career. However, I have been privileged to watch and learn from several administrators that I deem as very successful and accomplished in their vision and administrative leadership. Among these are Bobby Moser who hired me at the University of Missouri while he was Department Chair; Gary Allee who replaced Dr. Moser at MU; Dr. David Ames, Department Head at CSU for 17 years and the person that hired me at CSU; finally, my current Department Head, Dr. Kevin Pond has also been a very good example of vision and leadership.

Demonstrated managerial experience.

I have not had direct roles in administration during my career with the exception of an assignment as Animal Science Extension Program Leader while at the University of

Missouri. However, as a faculty member I have successfully managed many graduate students and student employees in extension and research endeavors. I have also had managerial responsibilities in church and Boy Scout leadership roles.

Planning and budget knowledge and skills.

I have successfully managed various extension, research and grant budgets throughout my career. In addition I have had budgetary responsibilities in my church leadership roles. My wife and I have managed our personal finances well and have been debt free for over ten years, while supporting half of the expenses for our two sons to graduate from college and complete 2-year church missions in the process. My personal motto for financial management is "spend less than you earn and save for a rainy day." I believe this applies equally well in an academic environment and in personal financial management.

Experience with demonstrated scholarly accomplishments at the community/technical college level, at a four-year institution, or relevant industry or government experience.

My experience in scholarly accomplishments has primarily occurred at four-year institutions. These are best outlined in my accompanying curriculum vitae. I detail them here in brief:

- Thirty-seven (37) peer-reviewed published scientific articles, with 4 additional manuscripts currently in review. This has been accomplished while carrying from 25% to 35% research appointment throughout my academic career.
- Major advisor for 31 M.S. and PhD students, along with committee member for numerous additional graduate students.
- A competitive extramural funding record for both research and extension activities.
- Development of highly recognized beef cattle extension programs at the University of Missouri and Colorado State University.
- Service to my professional scientific society (American Society of Animal Society) as member of the Board of Directors (2000-2013) and current member of the Executive Committee for ASAS. Past-President Western Section ASAS.

How does my relevant experience fit with the vision and goals of NCTA?

Dr. Jack C Whittier
Applicant for Dean of the Nebraska College of Technical Agriculture

Mission Statement:
The Nebraska College of Technical Agriculture (NCTA), an institution of higher learning, is dedicated to the development of innovative individuals for the agriculture industry and related sciences.

"Education is not so much the filling of a bucket as the lighting of a fire."

William Butler Yeats

This statement reflects what I believe to be a core principle of the role of institutions of higher learning. My experience with students in the classroom, as well as with extension audiences, tells me that when there are clear, beneficial applications for the information presented, the learner is much more likely to internalize the information. When this happens and the student can see how this applies to them personally, this then lights the fire of innovation. My impression is that the skills and knowledge taught at NCTA play a key role in the future success of both the individual and the industry.

Vision Statement:
NCTA leads rural community development through technical agriculture in a global economy.

When I came to Nebraska in 1982 for graduate school, I was in awe of the importance and recognition of agriculture in this state. It was simply fun to see this role in the lives of the people and their communities – both rural and urban. Since that time I have had occasion to travel domestically and internationally and have gained an even greater appreciation for the impact that the skills associated with technical agriculture play in the amazing processes of food production.

Value Statements:
NCTA values:

- *Nebraska's agriculture industry and its role in the global economy.*
- *The application of science through technology.*
- *Entrepreneurship both on and off campus.*
- *The rural lifestyle and revitalizing rural communities.*
- *All people and their development.*

During my life I have observed that some of the best and brightest sons and daughters have left agriculture to pursue more perceived "glitzy" vocations. Yet, the rapid increase in production efficiency in American agriculture reinforces to me that agriculture has many of the best and brightest today and will need them even more in the future. Whether you look at the increase in corn yield from fewer acres, milk yield from fewer dairy cows, or beef production from fewer cows, it is evident that application of genetics, nutrition, reproduction, marketing and business management are key skills needed for this increased efficiency, and as agriculture is successful, rural communities benefit.

Goal of NCTA:
NCTA will develop the entrepreneurship theme throughout the institution.

One of the great advantages of living in a country where new ideas can be put into action is that people can translate what they learn and their dreams into real outcomes. I spent some time in the former Soviet Union and it was depressing to see how much independent thought and entrepreneurialism had been suppressed. It is exciting to me to

see that NCTA is training and encouraging its students to bring their ideas into reality as NCTA nurtures this spirit with programs like the 100 Acre and 100 Beef Cow Advantage.

I am also familiar with the Engler Agribusiness Entrepreneurship Program at UNL that is now chaired by Dr. Tom Field, a former colleague at CSU. I recognize that the Engle program and the entrepreneurship programs at NCTA are not directly connected, but I foresee the opportunity for NCTA students to have interaction and build excitement by some level of association with the Engler program. This potential would be fun to explore if hired at NCTA.

Goal of NCTA:
NCTA will develop new academic programming that enhances NCTA's mission.

As mentioned in my CV, I spent 5 months at Lincoln University in New Zealand in 2010. One of the great things I saw in action was the use of field trips. Let me briefly explain: Each semester there were certain days designated that **all** classes were not held and **all** students went on an organized field trip to visit a production unit. For example, all students in viticulture went to a vineyard, while students in animal science and agronomy went to a dairy or sheep producer's farm, etc. There were clear objective set out for the field trips and students were to complete follow-up projects related to the field trips. The instruction in the courses, following the field trips, was also geared around what was shown on these days. I thought this was a marvelous approach to learning production agriculture. Massive land-grant universities are too large and too inflexible to accommodate this sort of programming, but an institution like NCTA may very well be able to re-work the curriculum to implement something like this. I recently heard Dr. Temple Grandin, say when asked about training students, "travel is a great teacher". Getting students out of the classroom, when feasible, on activities such as the field trips mentioned above, may be a great way to enhance NCTA's mission.

Goal of NCTA:
NCTA will develop a model for sharing resources between NCTA and the West Central Research and Extension Center.

I did research at North Platte and Gudmundsen for my PhD, and since then have followed the research and extension activities at WCREC. I am well acquainted with many of the faculty there and consider Don Adams to be a friend. In a recent phone conversation with Don, after I receive the invitation to apply for the Dean position at NCTA, Don and I spoke about some of the possible opportunities for collaboration and sharing of resources. I understand some of this collaboration is already in place. I would welcome the chance to expand on this for the benefit of the students at NCTA.

Goal of NCTA:
During the next five years NCTA Student Services will increase its recruitment and retention rates while adding additional services important to the success of NCTA students.

Recruitment is obviously a key part of any institution of higher learning. There are many choices in education. Presenting NCTA as a choice must occur aggressively to accomplish the "*…development of innovative individuals for the agriculture industry and related sciences"* as stated in NCTA's mission statement. The newly built and renovated facilities at NCTA will be a key drawing card for students. Additionally, the specialty programs recently implemented have brought visibility and notoriety which should be capitalized on. I would welcome the chance to work with NCTA Student Services in accomplishing this.

Goal of NCTA:
NCTA will update the 2001 articulation and transfer agreements with the University of Nebraska-Lincoln College of Agricultural Sciences and Natural Resources.

I see NCTA as a natural feeder school for UNL. Having a stream-lined mechanism for students to flow toward UNL would be very important during recruitment of students to NCTA. Although I have limited background in the specifics of this process, my experience at four universities would have some merit in accomplishing this goal.

Goal of NCTA:
NCTA will improve the quality of the living and learning environment on campus substantially over the next five years

In my recent conversations with Dr. Ronnie Green, Dr. Don Adams and Dr. Weldon Sleight, each of them mentioned the funding which has enabled renovation and construction to take place at NCTA. If the student body is to grow as the innovative programs grow, the physical facility for teaching and living must also keep pace. I see this as a very important and doable goal. I understand that administrative and legislative support for these efforts is good and I believe I could keep this momentum moving forward.