

CURRICULUM VITAE

MARY MCLEAN BECK

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EDUCATION

PhD	Poultry Physiology	1980	University of Maryland - College Park, MD
MS	Poultry Physiology	1976	University of Maryland - College Park, MD
BA	English		Westhampton College - University of Richmond, VA

EMPLOYMENT

Mississippi State University – 2012-current

- Professor and Head, Poultry Science Department

Clemson University – 2007-2012

- Professor and Coordinator, Special Academic Programs, CAFLS
 - Negotiated four articulation agreements between Animal & Veterinary Sciences Dept. and Piedmont Technical College (2) and Tri-County Technical College (2)
 - Three additional agreements are in progress.
 - Represented Poultry Science Association on CoFARM/BESC Congressional Hill visits on behalf of agricultural funding, 2009, 2010 (none held, 2011)
 - Appointed Executive Secretary, Southern Poultry Science Society, January 2011
 - Appointed co-chair, FAIR (Farm Animal Integrated Research) 2012 Program Committee, April 2011
 - Appointed Section Editor, *Poultry Science* – Environment, Well-being and Behavior, 2010-2013
- Professor and Coordinator, Graduate Programs, Forestry and Natural Resources
 - Revamped FNR website for student recruitment
 - Updated and revised graduate handbook
- Chair, Animal & Veterinary Sciences, 2007-2009
 - Re-established outreach linkages to S.C. commodity boards and associations;
 - Renovated meat processing facility and established linkages to local producers as economic driver for the Upstate;
 - Initiated and participated in numerous discussions on sustainability, food production systems, and public/private partnerships; and the role of the land grant university in such efforts;
 - Established student outreach initiatives for recruiting;
 - Interacted with Livestock and Forage Extension Team to enhance visibility and effectiveness of programming;
 - Represented Poultry Science Association on CoFARM/BESC Congressional Hill visits on behalf of agricultural funding.

University of Nebraska-Lincoln

- Professor – 1997-2007
- Associate Professor – 1986-1997
- Assistant Professor – 1980-1986.

University of Maryland

- Research/Teaching Assistant, Department of Poultry Science – 1975-1980.

LEADERSHIP EXPERIENCE

National

Co-chair, FAIR 2012 Program Committee, 2011-2012

Executive Secretary, Southern Poultry Science Association, 2011 – continuing

Section Editor (Environment, Well-being and Behavior) *Poultry Science*, 2010 – continuing

PSA Representative to CoFARM/BESC Congressional Hill Visits, 2009, 2010

LEAD-21 USDA Leadership Training Program 2006-2007

USDA Animal Protection NRI review panels, 2004, 2009

PSA Strategic Plan Committee Chair 2009-2010; Chair, Evaluation Committee - ongoing

PSA Long Range Planning Chair; Member of Strategic Plan Evaluation Committee 2007-2009

PSA Representative to FASS Board of Directors 2003-2006

Past-president Poultry Science Association 2003-2004

President, Poultry Science Association, 2002-2003

- Established PSA Foundation
- Initiated first five-year strategic planning process
- Participated in CAST/ICL workshop, “Shared Leadership II,” Glynwood Center, NY.

First Vice President, Poultry Science Association, 2001-2002

Second Vice President, Poultry Science Association, 2000-2001

Participated in CAST/ICL workshop, “Cultivating Leadership for a Changing Agriculture,” Colorado Springs, CO. 2001

Associate Editor, *Poultry Science*, Physiology Section 1993-1996, 1996-1999, 2002-2008

Review Board, Journal of Applied Poultry Research, 2005, 2006

Ad Hoc Reviewer, Thermal Biology, ASAE, ADSA, ASAS - ongoing

Chair, Poultry Science Association Long Range Planning Committee, 1998-2000

Secretary/Treasurer, Poultry Science Association, 1994-1997

Co-chair, Ad Hoc Committee on Status of Poultry Science in North America, Poultry Science Association, 1990-1993.

Regional

Nebraska Representative (1980-present); chair, 1998

Regional Research Technical Committee NE-127, *A Systems Approach to the Evaluation of Environmental Constraints Affecting Poultry Production*

Nebraska Representative, Coordinating Council, Midwest Poultry Science Undergraduate Center of Excellence, and coordinator of AS601, Avian Physiology, 1995-present.

State

Chair, Committee W, Nebraska Chapter, AAUP

University

Past-president, Academic Senate, 2006-2007

Chair, 5-year administrative review committee, IANR Vice Chancellor/NU Vice President Owens

President, Academic Senate, 2005-2006

President-Elect, Academic Senate, 2004-2005

Chair, Reduction in Force Revision Committee 2004-2006

Member, Academic Rights and Responsibilities Revision Committee 2003-2004

Academic Senate Executive Committee, 2003-04

President-elect, AAUP UNL Chapter, 2003-04

Committee on Committees, 2000-2003

Co-chair, Faculty Women's Caucus, 1999-present

Mentor, formal and informal, for women faculty and students (several contacts per month from across UNL campus for assistance/advice on specific issues and situations).

Chair, Chancellor's Commission on the Status of Women, 1991-1993
Chair, Academic Freedom and Tenure Committee, 1993-1994; member, 1991-1992
Chair, Academic Rights and Responsibilities Committee, 1994-1996
Chaired writing committee for procedures for Academic Freedom and Tenure, Grievance, and Professional Conduct Committees, 1993-1994; approved by Board of Regents, June 1994
Co-authored UNL policy on harassment and discrimination, 1994-1996; adopted by Chancellor, September 1996
Member, AAUP Committee W (UNL), 1990-1993:
Coauthored an audit of the climate for women in the college of business UNL;
Served as consultant for a department in the process of writing bylaws;
Chair, AAUP Committee W (UNL), 1994-1996:
President, UNL AAUP Chapter: 1997:
Initiated web site for local chapter;
Reviewed post-tenure document drafts at UNL
Promotion and Tenure: Invited annual presentation to pre-tenure faculty on the tenure process and dealing effectively with it; 1990-present.
Policy Implementation: work regularly with UNL administrators to develop sensitivity to women's issues and to implement the UNL harassment/discrimination policy (1994-present).
Administrative Procedures: Invited to present information on governance processes, to:
* new chairs/deans, October 1996 (A. Kilgore)
* departmental administrators, October 1996 (E. Aberle)
* Council of Academic Deans, September 1996 (I. Omtvedt)
Member, CBA dean search committee, 1997
UNL Task Force, Freshman Year Experience, Sr. Vice Chancellor for Academic Affairs, 1998-1999

IANR (Institute of Agriculture and Natural Resources/College

IANR Vice Chancellor's Liaison Committee 2000-2003 (3 yrs); vice-chair, 2002-03
Special Assignment, IANR Associate Vice Chancellor, Diversity Plan development, 2000-2002
IANR VC Budget Ad Hoc Advisory Committee 2001
Co-chair, IANR Gender Issues Committee, 1993-1994
Member IANR Ethical Issues Committee 1993-1994
Member, CIT specialist search committee, 1999

Department

Undergraduate Teaching and Advising Committee, 2004-2006
Animal Science Internal Advisory Committee, 2000-2004
Graduate Committee, physiology representative, 1990-1996
Chair, Reading Room Committee, 1996-97
Interdisciplinary Seminar Committee, 1996-1997
Scholarship Committee, 1997-1999; 2002-2006
Chair, Safety Committee, 1999, 2000
Swine physiology position search committee, 1999
Chair, animal physiology position, 1987

EXTENSION AND OUTREACH ACTIVITIES

Expanding Your Horizons, workshop presenter, 1999-2006; Lincoln and Crete, NE
Society for Neuroscience K-12 outreach program: resource contact person
Informal talks on brain and behavior research to fifth grade science classes, annually
Ag in the Classroom: resource contact for technical information
Informal talks on careers in agriculture to high school classes, 1995
Editor, Nebraska Poultry Report, 1986, 1987, 1989, 1991, 1994, 1996, 1998, 2000, 2002, 2004
Extension Circular: Johnson, R.J., M.M. Beck and J.R. Brandle, 1991. Windbreaks & Wildlife. EC 91-1771-B.
Nebraska Poultry Industries Convention, Columbus, NE, annual participation
Ex officio Director, Nebraska Poultry Industries

HONORS, RECOGNITIONS, AND AWARDS RECEIVED:

CASNR (Coll. of Ag. Sci. & Nat. Res). Distinguished Teaching Award, 2005
Nominated, NCTA Dean and NREC Associate Director (Curtis, NE), 2005
UNL finalist for OTICA (Outstanding Teaching and Instructional Creativity Award) 2002, 2003
Fellow, Poultry Science Association, 2005
Holling Family Senior Faculty Award for Excellence in Teaching, IANR, 2001
UNL Parents' Association recognition for contribution to students, 2002, 2004
Courtesy appointment: School of Natural Resource Sciences, 1999-present
Elected to Women's Studies Faculty, 1999; WS advisory board 1999-present
Helene Cecil Leadership Award, PSA, 1999, for scientific contributions and outstanding leadership in providing opportunities for women in poultry science.
Distinguished Alumna Award, Westhampton College, 1999
James A. Lake Academic Freedom Award, 1998, presented by the UNL Academic Senate
Award for Outstanding Contributions to the Status of Women, 1997, presented by the Chancellor, with selection by the Chancellor's Commission on the Status of Women.
Nominated for Purina Mills Teaching Award, Poultry Science Assoc., 1997.
Nominated for Outstanding Teacher of the Year, 1996, by the Association of Students of the University of Nebraska (ASUN)

Directed research receiving graduate student recognition:

Poultry Science Association:

Award of excellence (J. Firman), physiology section, 1983.
Award of excellence (R. Novero), physiology poster section, 1990.
Award of excellence (M. Forman), physiology poster section, 1995.
Graduate Student Manuscript Award (M. Forman), 1996
Award of excellence (J. Elston), environment/management poster section, 1998
Award of excellence (R. Teruyama), physiology poster section, 1998
Award of excellence (S. Elnagar) physiology poster section, 1999
Award of excellence (K. Franzen) physiology poster section, 2000
Award of excellence (K. Franzen) physiology poster section, 2001
Graduate Student Manuscript Award (K Hansen), 2003
Undergraduate Student Participation Certificate (J. Wardell), PSA, 2004
Award of Excellence (H. Taira) physiology poster section, PSA, 2005

Southern Poultry Science Society

Award of Excellence (D. Franco); 2004

UNL

Mussehl Graduate Fellowships (H. Brown-Borg, 1982; A. Maki, 1985;
R. Novero, 1989; R. Teruyama, 1992, 95).

INVITED AND OTHER PRESENTATIONS (* denotes presenting author; † denotes invited presentation)

* **Schaefer, M.M.** and W.J. Kuenzel, 1977. Brain catecholamine levels in seizure-prone chicks, *Gallus domesticus*. Poultry Science Association Annual Meeting, Auburn, AL.

Note: This oral presentation won an Award of Excellence at the 1977 annual meeting of the Poultry Science Association for scientific merit and excellence of presentation.

* **Schaefer, M.M.** and W.J. Kuenzel, 1979. Serum changes in mutant chicks prior to onset of a convulsive disorder. Poultry Science Annual Meeting, Gainesville, FL.

* **Beck, M.M.**, W.J. Kuenzel, and R.C. Switzer III, 1980. Auditory and vestibular pathology of seizure-prone chicks. Neuroscience Annual Meeting, Cincinnati, OH

* **Beck, M.M.**, 1983. The brains of birds: why study them? Nebraska Academy of Sci., Lincoln, NE.

Taher, A.I., E.W. Gleaves, and * **M. Beck**, 1983. Specific calcium appetite in laying hens. Poultry Science Annual Meeting, Catonsville, MD.

Firman, J.D. and ***M.M. Beck**, 1983. Evidence for GABA imbalance in seizure-prone mutant chick. Society for Neuroscience Annual Meeting, Boston, MA.

- * **Beck, M.M.**, A.Y. Nasser, E.W. Gleaves and J.A. DeShazer, 1986. Poultry energetics model: new applications and interpretations. Poultry Science Association Annual Meeting, Raleigh, NC.
- * **Beck, M.M.** and J.M. Hill, 1990. Distribution of iron in chick brain: overlap with GABA, transferrin localizations. Society for Neuroscience Annual Meeting, St. Louis, MO.
- ** **Beck, M.M.**, 1992, 1993; Status of Women Faculty, University of Nebraska-Lincoln; presented to Nebraska Board of Regents. Lincoln, NE.
- ** **Beck, M.M.**, 1992; Status of Women Faculty, University of Nebraska-Lincoln; presented to Nebraska Unicameral Education Committee. Lincoln, NE.
- * **Beck, M.M.**, G. Deberg, T.M. Brown and D. Cheene, 1994. Non-invasive sensor for direct respiratory signal acquisition. Poultry Science Association Annual Meeting, Starkville, MS.
- * **Beck, M.M.**, F.J. Struwe and E.W. Gleaves, 1995. Vocalization correlates of stress in domestic chickens. Animal Behavior Annual Meeting, Lincoln, NE.
- ** **Beck, M.M.**, 1996; Annexation Rebuttal; presented to Lincoln, Nebraska, City Council.
- ** **Beck, M.M.**, 1998. Program synthesis and future challenge. Poultry Science Association Annual Meeting; Symposium - Partnerships in poultry science: Perspectives of change; University Park, PA.
- ** **Beck, M.M.**, 1998. James A. Lake Award Address. UNL Academic Senate, Lincoln, NE
- ** **Beck, M.M.**, 1999. Sans Sera – Without Wax. Outstanding Alumna Award, Westhampton College, Richmond, VA.
- * **Beck, M.M.** and SA Elnagar, 2000. VIP-immunoreactive cells increase in hypothalamic nucleus of heat-stressed and hypothyroid hens. Poultry Science Association Annual Meeting, Quebec, Canada.
- ** **Beck, M.M.**, 2003. The Leading Object – from the Land Grant Legacy. Presidential Address, Poultry Science Association annual meeting, Madison, WI.
- ** **Beck, M.M.** and KK Hansen, 2003. Role of estrogen in avian osteoporosis. Poultry Science Annual Meeting; Symposium - Avian Osteoporosis: Measurement and Ethical Considerations; Madison, WI.
- ** **Beck, M.M.**, 2005. A Vision for Animal Science Departments. Dept. of Animal and Food Sciences, U. of Delaware, Wilmington, DE.
- ** **Beck, M.M.**, 2005. Poultry Science – Future Directions. Dept. of Poultry Science, NC State University, Raleigh, NC.
- ** **Beck, M.M.**, 2005. A Vision for Animal Science Departments. Animal and Veterinary Sciences, Clemson University, Clemson, SC.
- ** **Beck, M.M.** and BC Wentworth, 2007. Regionalization of teaching efforts? - Midwest Poultry Consortium experience. Annual Meeting of ASAS, ADSA, and PSA; Symposium - Teaching/Undergraduate & Graduate Education: Swine Teaching; San Antonio, TX.
- ** **Beck, M.M.** 2007, 2008, 2009; State of the AVS Department – Update and Future Directions; presented to SC Large Animal Medicine Short Course; Columbia, SC.
- ** **Beck, M.M.**, 2008. Animal & Veterinary Sciences Update and Future Directions; presented to Anderson County Cattlemen’s Association; SC Pork Producers annual convention; SC Cattlemen’s annual convention; and SC Beef Board.
- ** **Beck, M.M.**, 2009. Poultry Science and the Land Grant Mission. Poultry Science Center of Excellence, University of Arkansas, Fayetteville, AR.
- * **Beck, M.M.** and RJ Johnson, 2010. APPLAUSE—A tool for improving student presentations. Annual meeting of ASAS, ADSA, and PSA; Symposium – Teaching/Undergraduate Education; Denver, CO.
- ** **Beck, M.M.**, 2011. Future directions in agriculture. South Dakota State University, Brookings.
- ** **Beck, M.M.**, 2011. Poultry Science and the Land Grant Mission. Mississippi State University, Starkville, MS.

LANGUAGE PROFICIENCY

German – fluent; French – reading; Dutch, Italian - minor

TEACHING ACTIVITIES

A. Current Courses:

FNR 808, Graduate Seminar, Fall-Spring

FNR 499, Senior Seminar, Fall

B. Previous Courses (UNL):

ASCI 251, Introduction to Companion Animals - Fall

- Biology, behavior, care, and management of typical companion (pet) animals.
- Focus on hands-on, cooperative learning (cost analysis over the lifetime of animals).
- Consideration of non-traditional careers with animals (e.g., animal assisted therapy for sick or disabled children, elderly in nursing homes; wildlife rehabilitation programs; classroom use of animals to connect with non-English speaking children).
- Exploration of ethical and policy issues (e.g., zoonoses, animal issue in domestic violence cases, animal rights)

UFND 101 University Foundations - Fall

- Focus on developing writing and study skills;
- Exposure to cultural and cross-cultural events with analytical critique;
- Portfolio development;
- Time use and management to maximize university experience.

WMNS 385 Women and Gender in Science - Spring

- In-depth exploration of historical and cultural exclusion of women from scientific careers and access to medical research.
- Feminist critiques of science, biological determinism theories are explored and analyzed;
- Format: primarily discussion, some lecture, group activities, extensive writing.

ASCI 370, Animal Welfare – Spring

- In-depth exploration of historical and cultural aspects of animal use; animal welfare legislation; animal rights advocacy positions; and public policy strategies;
- Extensive use of group dynamics, civil discourse on potentially polarizing topics;
- Exploration of public policy, legislative processes.
- Includes joint final Mock Congressional Hearing project, using real-time Internet Classroom, with a class at Kansas State University; held alternately at UNL and KSU.
- Format: some lecture, emphasis on case studies with discussion, group activities

AS 601, Avian Physiology – Midwest Poultry Consortium COE, Madison, WI; Summer

- Participant since 1995; Coordinator since 2000;
- Intensive exploration of all physiological systems; hands-on, in-depth laboratory sessions ranging from basic anatomy/histology to reproductive assessments to clinical recordings;
- One of six courses in two-summer sequence of 18 credits of poultry science, taught by faculty from 13 Midwestern universities.

ASCI 943, Advanced Avian Physiology, on demand, approximately every three years.

ASCI 452, Poultry Management, on demand, approximately every three-four years.

Previous Courses

ASCI 845, Animal Physiology, 1995-2000 (team taught general physiology)

Approximately 15 students per year. After 2000, teaching assignments were changed;

Animal Science 905, Graduate Special Topics Seminar, 1997 spring -*women in Science*; 15-20 students; 1997 fall - *Research Updates*, 12 students; spring 1998 - *Research Updates*, 10 students; Fall, 1998 – *Research Updates*, 15 students; Spring 1999 – *Research Updates*; 13 students; Fall 1999 – *Research Updates*, 13 students; Spring 2000 – *Research Updates*; 8 students; Fall 2000 – *Research Updates*, 9 students; Spring 2001 – *Women in Science*, 10 students.

C. Graduate Advising

Graduate students, completed

Name	Degree/date	Thesis	Current Position
Jeffre D. Firman	MS 1983	Gamma-aminobutyric acid and brain metabolism in paroxysmal chicks	Professor/An.Sci. Univ. of Missouri Columbia, MO

E.H. Al-Mashhadani	PhD 1984	Respiratory tract damage, heat loss patterns and performance of poultry exposed to atmospheric ammonia	Prof./An. Sci. Univ. of Basra, Iraq
Afaf Y. Nasser	MS 1986	Performance of laying hens as affected by cyclic temperatures	Dir. of Poultry Res. (PhD, Wisc. 1993) Inst. of Sci. Res. Kuwait
Holly M. Brown-Borg	MS 1996	Origins of neural activity in brainwaves of chicks	Prof./Physiol. (PhD, NCSU, 1991) NDSU Med.Sch. Grand Forks, N.D.
Kurt E. Borg	MS 1987	Determination of brain metabolism in Coturnix quail exposed to various photoperiods	Dir. Advising (PhD, NCSU, 1991) NDSU.Med.Sch. Grand Forks, ND
Auday A. Maki	PhD 1990	Neural control of thermoregulation in the hen	Pharmacist Detroit, MI
Ruben P. Novero	PhD 1991	Neuroendocrine responses of the laying hen under heat stress	State of CA
Polly A. Lewis	MS 1991	Serum glucose concentrations and immunocytochemical localization of brain GABA in the paroxysmal (px) chick	Private Practice (DVM, KSU,1993), Minnesota
Ryoichi Teruyama	MS 1993	Development of metabolic response in male quail brain during sexual maturation.	Doctoral Program UNL
Kamel Z. Mahmoud	MS 1995	Estrogen-calcium relationships in heat-stressed hens	Assist. Prof. Amman, Jordan (PhD, NCSU, 1998)
Tami M. Brown-Brandl	MS 1995	Temperature-humidity index for growing tom turkeys	Res.Scientist USDA Meat An. Res. Ctr. Clay Center, NE (PhD, 1998, U.KY)
Mary F. Forman	MS 1996	The use of urinary NAG (N-acetyl-B-D-Glucosaminidase as a marker of vitamin D toxicity in rats and hens	Research Scientist, USC, Columbia, SC (PhD, U.AR. 2000)
Ryoichi Teruyama	PhD 1998	Investigation of the linkages between GnRH neurons and other areas in male quail brain	Assist. Prof., Biology, LSU Baton Rouge, LA
Jennifer J. Elston	MS 1998	Behavior of laying hens within two types of battery cages	Avian Behavior. Res. Scientist Disney, FL (PhD TAMU 03)
Scott Husted	MS 1998	Non-thesis/scholarly paper Heat shock protein and immunological function in birds	PhD, UNL 2000
Kimberley K Hansen	MS 1998	Heat stress, estrogen, vitamin D3 and calcium transport in duodenum of hens	PhD program, UNL
Jacqueline Canterbury	MS 2000	Conservation strategy for non-game birds In Nebraska	Instructor, Biology Dept., NE Wesleyan Nebraska Wesleyan Univ.
Samar Aly Elnagar	PhD 2000	Hypothyroid mediated changes and reproductive function in laying hens	Professor., Dept. Poultry Sci., Univ.

		at different stages of production	Alexandria, Egypt
Hiroko Taira	MS 2001	Physiological status of various migratory waterfowl in the Rainwater Basin of Nebraska	PhD program, UNL
Mohammed Alodan	PhD 2001	Cytokine IL-1 β modulation of reproductive Function in heat stressed hens	Assist. Prof. King Saud U. Riyadh Saudi Arabia
Hansen, Kimberly K	PhD 2002	Estrogen-calcium relationships during aging aging in the hen	Assist. Professor Bryan Health Sci. Sch. of Nursing Lincoln, NE
Eggleston, Lisa	MS 2002	Effect of exercise and heat stress on feedlot Heifers: body temperature and blood constituents	Lab tech, U. MT Helena, MT
Madison, Farrah N.	MS 2002	Productive characteristics of two strains of laying hens as affected by body weight and age at puberty	Post-doc Fellow Johns Hopkins Baltimore, MD (PhD Arkansas)
Burks, Marianna R.	MS 2003	Immunocontraception in Japanese quail	Technician for Dr. A. Kamil, Sch. Biol. Sci., UNL
Franco, Danilo,	PhD 2004	Effect of heat stress on production, physiological and metabolic parameters in three varieties of laying hens	Assist. Professor Cal State-Pomona Pomona, CA
Taira, Hiroko	PhD 2007	Disruption of steroidogenesis by thermal stress in avian granulosa cells: effects on 3 β -HSD	Post-doc. Fellow Dr. Peter Skewes Clemson University
Canterbury, Jacqueline	PhD 2007	Songs of the wild: temporal and geographical distinctions in the songs of the Yellow-breasted Chat	Lecturer, Sheridan Coll Sch of Nursing Sheridan, WY

C. Other graduate committee service, current

Ph.D. – Pamela – UNL

D. Undergraduate research directed

Bridger, JJ, L. Robeson, D. Franco, and MM Beck, 2000. Metabolic and production responses of three laying hen varieties to heat stress. *Poultry Sci.* 79(suppl):79

Colgan, S. BS 2001 Heat stress in 4-7 wk old broiler chicks.

Wardell, J Analysis of bone histomorphometry in laying hens. Presented at PSA, 2004

Heywood, N. Bone integrity in hens: effects of age, strain and diet. UCARE project, Presented at undergraduate research symposium UNL 2004

Senf, M. Behavioral analysis of squirrel monkeys at the Henry Doorly Zoo, Honors Thesis, 2004

Kappen, K., Hubbard, K., Preference testing of corn varieties in laying hens and proximate analysis, 2006

E. Other teaching activities, ongoing:

"Gender issues in the classroom" - presented to various classes, 1993-2001

"Human factors in research" - presented annually in Agric 810, 1994-1999; 2000-2007

"Land Grant System" – presented in Agric 810, Ufnd 102, 2001, 2003, 2004

F. Grants related to teaching

Science, Women and the Great Plains: Forging a Trail to Scientific Literacy

Submitted Fall 1996 to Association of American Colleges and Universities (NSF funding);

PIs: W.J. Lewis, **M.M. Beck**, C.E. Brantner, R.G. Fuller, N. Lindsley-Griffen, H.A. Moore

Total request: \$20,000 with UNL matching; not funded

Objectives: develop interdisciplinary gender and science courses, host speakers for Science, Women and Great Plains conferences, extend research on gender and science in the Great Plains.

Project:CLASS - Writing in the animal sciences

Funded by Kellogg, 1990-1993, \$55,000

PIs: DR Brink, **MM Beck**, EA Banset, VA Book, and KE Gilster

Objectives: to increase written competency in students; to decrease level of anxiety of animal science professors about incorporating writing; to identify one core course at each level to be writing intensive

G. Publications related to teaching

Book Chapter

Banset, E., V. Book, M. Beck and D. Brink, 1995. Writing in the Curriculum: Lessons learned from Project:CLASS. In: Reshaping Curricula. J. Povlacs-Lunde, ed. Anker Publishing Co., Bolton, MA.

Published Abstracts - Teaching

Beck, M.M., D.R. Brink, E.A. Banset, V.A. Book and K.E. Gilster, 1991. Writing in an animal science curriculum: A model for agriculture. Poultry Sci.70(suppl.):106.

Swanson, J.C. and M.M. Beck, 1998. Students interacting across universities: a mock congressional hearing project. Animal Sci. 76(suppl.):365

Beck, M.M. and J.C. Swanson, 1998. Interstate learning - a University of Nebraska-Lincoln/Kansas State University class project. Poultry Sci. 77(suppl):37.

Beck, MM and JC Swanson, 2002. Value-added animal agriculture: Adding race and gender to the professional formula. J. Anim. Sci. 80:574. **Invited presentation.**

RESEARCH PROJECTS AND SOURCES OF FUNDING

Current Funding:

USDA NRI (\$348,694), 2008-2011 (transferred to Dr. Peter Skewes, Clemson University)

Neural Plasticity and Behavior: A new method for assessing hen welfare.

Funded, ongoing

Previous Funding:

Regional Research (\$19,000/year) – 1980-2007; revised and approved every five years

Total amount received since 1980: ~\$380,000

A Systems Approach to the Evaluation of Environmental Constraints Affecting Poultry Production

Regional Project NE-127; Station Project 13-055; 1999-2004; NE-1022 2004-2009

UNL Project leader 10/91-present

Elected junior executive for 93-94; senior executive 94-95; secretary 95-96; chair 97-98; revision chair 1993; 1998

USDA Animal Health (\$7,000) – 1996-2007; revised and approved every five years

Total amount received since 1996: ~\$56,000

Estrogen-calcium relationships during onset of metabolic bone disease in laying hens

Project 13-123, 1999-2004

Project leader

Roche Animal Nutrition & Health (\$48,000)

Reproductive Characteristics of SCWL as Affected by Body Weight and Vitamin D During Pre-lay Development

Awarded 2001-2003

Special Hatch Funds (\$20,000) – 2004

Genomics of heat stress effects on steroidogenesis in laying hens and breeder males

One-time competitive internal grant
IANR, UNL

Mussehl Research Funds (\$10,000 per year) – 2000-2001

Estrogen receptors in various tissues over the productive lifespan of the hen
Internal competitive grant
IANR, UNL

Appropriated Hatch Funds (~\$4,000 per year) – 1980-2004

General departmental research support

Miscellaneous

Embassy of Egypt: \$10,000 annually for two years (1998-1999)

 Doctoral research program for S. Elnagar

Nebraska Game and Parks Commission, \$10,000 (2000)

 MS research for H. Taira

Nebraska Game and Parks Commission, \$15,000 (1999-2000)

 MS research program for J. Canterbury

In-kind industry support of research program

 laying cages, N. Obermeier, Waco, NE (~\$10,000 replacement cost), 1997

 laying hens, Waldbaum Inc., Bloomfield, NE, annually; HyLine International

 fertile eggs, Tyson Inc., Springdale, AR, as needed annually

 turkeys, Central Kansas Hatchery; Bevans Inc., Waverley, NE, as needed, annually

PHS Predoctoral Fellowship Award, \$14,000, 2001; not funded