

CURRICULUM VITAE

Niki C. Whitley

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EDUCATION

Ph.D.	8/98	Animal Physiology Minor: Biochemistry	Mississippi State University, Starkville, MS
M.S.	8/95	Animal Science	University of Georgia, Athens, GA
B.S.	6/93	Animal Science	University of Georgia, Athens, GA
A.S.	6/91	Business	Abraham Baldwin College, Tifton, GA

CURRENT EMPLOYMENT SUMMARY

Current position: Extension Animal Science Specialist/Adjunct Associate Professor at North Carolina Agricultural and Technical (NCA&T) State University with duties in Extension (75%) and Research (25%)

Results and products

- External grant funding PI or co-PI in excess of \$1.5 million at UMES, **\$787,844 at NCA&T (PI or co-PI)**;
- Twenty-one author and co-author peer-reviewed manuscripts (**1 NCA&T**) and 66 abstracts (**17 at NCA&T**) plus manuscripts in preparation; over 30 popular press articles including Delmarva Farmer (over 10,000 subscribers) and Wild and Woolly (over 300 viewers) articles
- Educational notebooks developed and distributed on the following topics: Commercial Rabbit Production, Meat Goat Production and Management and Pasture Pork Production.
- Nationally recognized small ruminant research program developed at UMES; re-established Animal Sciences Extension program at NCA&TSU
- Numerous scientific and Extension presentations given (and workshops organized)
- Mammalian cell culture laboratory developed; biotechnology lab expanded (UMES)
- International collaborative research information exchange with Jamaica (UMES)
- Two new courses developed and taught; 2 existing courses modified (UMES)
- Web page/web sites developed (UMES)

Current Position Impact: Multiple agents are now setting up livestock workshops/field days or seminars in their counties; at least six Extension Agents are now providing producer training in livestock internal parasite resistance/management; pasture swine producers changed marketing strategies and increased gross sales income by 45%, 92% improved efficiency by changing feeds or feeding methods, 57% improved their genetics, 62% applied for USDA programs or other grants, 50% improved their record keeping and 71% made farm changes to reduce environmental impact after working with NCA&TSU. Animal Science collaborators and contacts for NCA&TSU were expanded to include at least 6 additional States/Institutions; increased research capacity at NCA&TSU in several areas.

AWARDS AND SCHOLARSHIPS

2003 B.D. Mayberry Young Scientist Award

2001 Outstanding New Faculty Award, School of Agriculture and Natural Sciences, UMES

2001 Maryland 4-H Professional Extension Partner, Specialist Award

1995 ASAS Southern Section Graduate Student Awards Competition, Second place

PROFESSIONAL ORGANIZATIONS

American Society of Animal Science

Southern Consortium for Small Ruminant Parasite Control

Southern Coordinating Committee 81, Small Ruminant Research

Goat Industry Community of Practice, eXtension

Sigma Xi Scientific Research Society (UMD Chapter)

North Carolina Forage and Grasslands Council

National Pork Producers Council, NC Pork Producers Association

Gamma Sigma Delta, NC A&T SU

WORK EXPERIENCE

Extension Specialist/Associate Professor, North Carolina A&T State University 9/08 - present
Appointment = 75% NC Cooperative Extension, 25% Research, Dept of Animal Science

Programs/Research: Sustainable pasture livestock production and management/Small Farms

Associate Professor, University of Maryland Eastern Shore (P&T 7/2004) 2004 – 2008

Appointment = 51% Department of Agriculture (25% Teaching, 26% Research);

49% Maryland Cooperative Extension (Livestock Specialist); Manage Livestock Farm

Research: Livestock management (breeding/reproduction, nutrition/feeding; health/parasitology); sustainable agriculture; biotechnology

Assistant Professor, University of Maryland Eastern Shore 2000 – 2004

Appointment = 51% Department of Agriculture (25% Teaching, 26% Research);

49% Maryland Cooperative Extension (Livestock Specialist); Manage Livestock Farm

Research: Reproduction-nutrition interactions; sustainable agriculture; biotechnology

Postdoctoral Research Fellow, University of Missouri 1998 - 2000

Research: The influence of satiety factors and metabolic modifiers on female reproduction in swine, sheep and horses.

Research Assistant, Mississippi State University 1995 - 1998

Dissertation: The influence of insulin on reproductive performance in the primiparous sow

Research Assistant, University of Georgia 1993 - 1995

Thesis: Insulin-like growth factor-I modulation of luteinizing hormone secretion in the gilt

Animal Caretaker, University of Georgia College of Veterinary Medicine 1991 - 1993

Specific Research Procedures Performed -

Ribonuclease protection assay

Reverse transcription - polymerase chain reaction (RT-PCR)

Cloning partial cDNA sequences for creation of riboprobe templates
In vitro transcription of riboprobes
Ribonucleic acid extraction from various tissues
In situ hybridization (using non-radioactive riboprobes)
In situ immunohistochemistry
Western ligand- and immunoblotting
Cell dispersion and primary cell culture
Experimental surgery
(ovariectomy, laparotomy, and intra-cerebral ventricular cannulation in swine and sheep)
Collection and processing of tissue samples (fixing and/or freezing)
Non-surgical vena cava cannulation - pigs, sheep and horses
Radioimmunoassay
Blood/serum collection and processing (pigs, sheep, goats and horses)
Fecal sample collection and fecal gastrointestinal nematode egg counting
Estrus detection in swine, sheep, goats and horses
Semen collection and extension, artificial insemination in swine
Management of gilts/sows, sheep, goats and cattle during gestation, parturition, lactation
Simple ration development for goats, sheep and cattle
General animal care

RECENT OR CURRENT* RESEARCH:

*Alternative or natural anthelmintics/Integrated parasite management
*Pasture Pork Production – breeding/genetics, forage/ground cover management
Crossbreeding in sheep for sustainable pasture lamb production (parasite resistance, growth/carcass traits; meat quality)
Urocortin effects on porcine pituitary LH production; cloning urocortin in the pig
Use of probiotics in horses (weanlings, yearlings) and goats (feedlot; food safety –farm to fork)

RESEARCH INTERESTS:

Forage/pasture management for parasite control and nutritional management (all species)
Sustainable/profitable small farm livestock genetics
Economically viable technologies/practices for small farmers

GRANT WRITING EXPERIENCE

Awarded (approximately \$2.25 million), highlighted = NCA&T

Extension and Applied Research Grants:

- Developing sustainable pasture based livestock Extension educational tools for integrated use. Capacity Building, **\$282,000 Awarded Summer, 2010.**
- Multiple livestock species integrated parasite management train-the-trainer programs with on-farm, computer-based and traditional training sessions, S-SARE PDP **Awarded Spring, 2010, \$86,105.**
- Agroforestry and Silvopasture; **Southern Forestry/Forestry Service in-house proposal. Awarded Fall 2010. \$25,000. Co-PI**

- Responding to Developing Needs of Socially-Disadvantaged Livestock Producers. OASDFR 2501. **Awarded Summer, 2009. \$300,000.**
- Mitigating Risk for Producers Raising Livestock on Pasture. Southern RME. **Awarded Fall 2009. \$48,653; Co-PI.**
- Development and field-testing of natural (non-chemical) systems for controlling gastrointestinal nematodes in sheep and goats in the southern USA. USDA Capacity Building with FVSU. **Awarded Fall 2007; \$46,086 to NCA&T; Co-PI**
- **AFRI letter of intent: Research on the well-being of sows and pigs in outdoor production systems: A holistic approach to animal welfare in an outdoor production system: (Foundational program; A1501). Co-PI (A&T) Accepted for full proposal (full proposal not submitted by PI)**
- Efficacy of natural dewormers in the control of gastrointestinal nematodes of small ruminants. USDA/NE SARE R&E grant with DESU. **Awarded Spring 2008. \$166,168; Co-PI**
- Diagnosis of anthelmintic resistance in small ruminant gastrointestinal nematodes (GIN) in the MidAtlantic U.S. USDA Capacity Building with DESU; **Awarded Fall 2007 \$374,000, approximately \$34,000 to UMES; Co-PI**
- Small Ruminant Industry Development Project. MD Cooperative Extension leveraging Extension Partnership Grant. **Awarded Fall 2007. \$14,380.** Collaborator: Meat goat test/lamb grazing study and Small ruminant dairying.
- Expanding the focus for sustainable agriculture training and education –current and future efforts to insure the viability of rural Maryland. NE SARE PDP **Awarded Fall 2006, 2007 and 2008, \$15,000/year.**
- Impact of possible natural anthelmintics on meat quality in sheep and goats. Evans-Allen. **Fall 2007.**
- Internal parasite loads, diversity and anthelmintic resistance in three herds of horses in Maryland. Evans-Allen. **Fall 2006-Spring 2007.** Jackson and Whitley
- Influence of probiotics on gut health and immune function in weanling and yearling horses. Conklin Co., **Summer 2006 \$1000 plus \$100 worth of product.** Project conducted at Mississippi State University.
- Managing the impact of wild birds on food safety and farm hygiene. USDA Capacity Building. Submitted Jan 2006. \$500,000; **Awarded Fall 2006; \$300,000 (\$81,954 to UMES).** Collaborator/Co-PI (Steven Pao, VSU primary institution)

- Expanding the focus for sustainable agriculture training and education –current and future efforts to insure the viability of rural Maryland. NE SARE PDP **Awarded Fall 2005, \$15,000.**
- High tannin grain sorghum as a possible natural anthelmintic for sheep and goats. NE SARE R&E. \$90,110 requested, **Awarded Spring 2005 \$100,000.**
- The effects of refeeding on endocrine responses in the chronically undernourished horse MAES. Awarded Spring 2004 **\$20,000 Co-PI/Collaborator**
- Expanding the focus for sustainable agriculture training and education –current and future efforts to insure the viability of rural Maryland. NE SARE PDP/NE-SARE Special Initiative. **Awarded Fall 2004 \$15,000.**
- Comparison of a new variety of Orchardgrass with Benchmark Plus Orchardgrass under grazing conditions. NRCS GLCI (Grazing Land Conservation Initiative), **Fall 2004; approximately \$400 worth of seed.**
- Mid-Atlantic Sheep & Goat Marketing Project. NE SARE Research and Education. **Awarded Spring 2004. \$31,000. Collaborator**
- Influence of probiotics on growth, fecal microbes and IgG/IgA in feedlot goats. Conklin Co., **2003-2006, \$2000 worth of product.**
- Probiotics and food safety in goats and hair sheep. Evans Allen. **Fall 2003-Fall 2006.** Whitley and Parveen.
- Expanding the focus for sustainable agriculture training and education for continued viability of rural Maryland and Seed Grant for developing a farmer/grower grant publication. NE SARE PDP/ Special Initiative. **Awarded Fall 2003, \$14,000.**
- Meat and Livestock Marketing Co-op Feasibility study. USDA Rural Development Office. **Awarded Fall 2003, \$5000.**
- Sustainable pasture lamb production. NE SARE Research and Education Grant. **Awarded Spring 2003, \$147,495.**
- Effects of refeeding diet on endocrine responses in chronically undernourished horses. Maryland Horse Industry Grant. \$24,000. Awarded Spring 2003. **\$5,000 Collaborator/Co-PI**
- Small Ruminant IPM (integrated parasite management) Project. Collaboration with MCE, West Virginia University, and Garrett County Community College (MD).NE SARE R&E Awarded Spring 2003, **\$45,000. Co-PI**
- Expanding the focus for sustainable agriculture training and education for continued

- viability of rural Maryland and Seed Grant for developing an on-farm research support program at the University of Maryland Eastern Shore for extension professionals. NE-SARE Special Initiative. NE SARE PDP. **Awarded 8/2002, \$16,000.**
- Alternative livestock enterprise for sustainable lamb production: demonstration project comparing pasture-raised hair sheep market lambs and traditional wool crossbred lambs in portable shelters versus traditional housing. A demonstration project. SARE-UMES PDP Grant. **Awarded Spring 2002, \$9900.**
 - Development of an introductory Animal Science workshop/seminar for Extension Educators who want to teach sustainable livestock production practices to youth (such as 4-H agents) but do not have an agricultural background. SARE-UMES PDP Grant with Somerset/Worcester County Extension. **Awarded Spring 2002, \$2800.**
 - Multi-species grazing and Max Q fescue demonstration project/Field Day, NRCS Grazing Land Conservation Initiative, **Awarded 4/2002, \$2495.**
 - Possible use of pelleted poultry litter as a protein source in goat and fish feeds. Maryland Dept of Agriculture, Animal Waste Fund. **Awarded 2/01, \$97,220.**
 - Poultry litter as an economical feed source for Maryland's growing goat production industry. MCE Small Extension Enhancement Awards. **Awarded 11/2000, \$1000.**
 - Is Leptin Related to Reproductive Parameters? Submitted to PIC (f.k.a. Pig Improvement Company). **Awarded Spring 2000 (\$10,800 through collaborator), but declined.**
 - The influence of urocortin on growth and reproduction in swine. Evans-Allen Grant, \$46,476. **Awarded Spring 2001, \$10,000.**
 - Comparison of growth rate and feed efficiency of meat goats fed a poultry litter supplement versus a traditional premixed supplement. Submitted to Perdue AgriRecycle. Total \$8135, company donated feed supplies, **AWARDED Spring 2000 (amount of donated feed/supplements, \$656).**
 - Internet Learning in Animal Science Courses Offered at the University of Maryland Eastern Shore. Mid-Atlantic Consortium. **AWARDED June 2000, \$500.**

Biotechnology related/Basic research:

- Utilization of functional genomics to identify novel approaches for control of internal parasites in goats. **\$95,527** UMES- \$5,420 Awarded Fall 2004. USDA NRI Bridge Grant. **Co-PI/Collaborator**
- Nutritional regulation of amino acid utilization by the gastrointestinal tract of sheep fed a forage diet. Fall 2002. MD Ag. Exp. Station grant. \$38,215. **Awarded Spring 2003, \$30,000. Co-PI**

- Cloning of a novel satiety factor in swine and its effects on pituitary hormones. USDA Capacity Building Grant, **Awarded 9/2001, \$269,972.**
- Enhanced Biotechnology Education. Subcontract, joint proposal with Univ. of Missouri as lead institution and UMES and UCLA as subcontractors. USDA Higher Education Challenge Grant. **Awarded 8/2001; UMES subcontract \$41,160; Total \$185,561.**
- Potential use of urocortin in Swine. Evans Allen. **Fall 2001-Spring 2005.** Whitley and Morant.

Submitted, in review (NCA&T):

- **AFRI letter of intent: Improving the biological nutrient use efficiency of agriculturally relevant animals. Co-PI (PI Chad Stahl, NCSU) Accepted for full proposal; full proposal submitted 2010**
- **Southern SARE R&E pre-proposal: Management strategies for ground cover maintenance in outdoor swine production operations. Accepted for full proposal; full proposal submitted Nov 2010.**
- **National Pork Board Grants: Outdoor Pork Production Animal Welfare (#36, and Specialty Grant on Alternative Production (2 grants), co-PI with Dr. Sang-Hyon Oh; Nov 2010**

Submitted, not funded (highlighted = NCA&T):

- **AFRI letter of intent: New indoor sow housing system that reduces stress among group-housed sows. Co-PI (Texas Tech) Accepted for full proposal; full proposal not funded.**
- **Organic-Pasture, Pasture, and Indoor Pork Production Systems: Comparison of production, economics, environmental impact, animal welfare and food safety. USDA OREI, 2 million (\$661,858 to NCA&TSU), submitted 2010.**
- **AFRI letter of intent: Comparison of gene expression between pigs raised in indoor and outdoor production systems: (Foundational program; A1201). Co-PI (A&T)**
- **An integrated approach to impact antimicrobial resistant foodborne pathogens in distinct swine production systems. USDA, Integrated Food Safety \$31,261 to NCA&TSU Co-PI. 2010.**
- **Landowner Agroforestry Interest Study, Southern Forestry/Forestry Service in-house proposal, May 2010**
- **Breeds, stocking rates and forages for a holistic crop-animal rotation in an organic vegetable production system. S-SARE R&E 2009.**
- **Holistic Crop-Poultry Rotation for Efficient Nutrient Utilization in Organic Vegetable Production Systems. \$432,860. USDA Organic ICGP. PI. Submitted Mar. 2009.**
- **Strategies for Reducing Risk Associated with Conversion to Organic Production Systems. USDA RMA. \$100,942. Co-PI/Collaborator. Submitted Feb. 2009.**
- **Research on the well-being of sows and pigs in outdoor production systems. Pre-proposal/letter of intent, January, 2009. Co-PD with Dr. Sang Oh**
- **Effects of strip-grazing and slope gradient on runoff, nutrient movement and sustainability of pasture pork production. Southern SARE (USDA-CSREES). Pre-proposal accepted. Nov. 2008. Co-PI, Dr. Woldegebriel lead**

- Characterizing the small ruminant industry in the DelMar (Delaware and Maryland) area to assist in disease traceability efforts. Submitted Feb 2008 \$300K; **Co-PI**
- Increasing impact by hiring a full time SARE PDP educator for Delmarva. NE SARE PDP submitted 2008, \$55,560 **Co-PI**; Delaware State as primary and Univ. Del. (Co-PI).
- Obesity-associated metabolic syndrome in the horse. Morris Animal Foundation. Consortium. Multi-institutional grant (UMCP, UMES, Rutgers, Univ. PA) Submitted Spring 2006. \$102,530 **Co-PI**
- Utilization of functional genomics to identify novel approaches for control of internal parasites in goats NRI Integrated Grant program: Functional Genomics of Agricultural Important Animals. Submitted Fall 2003. \$999,112. **Collaborator**
- Goat Genomics Workshop/Planning Conference. USDA/NRI Special project. Awarded Fall 2004. \$10,000 **Co-PI/Collaborator**.
- Food safety biotechnology to combat antibiotic resistance. USDA Research Capacity Building. \$299,978. Spring 2003.
- Developing a cooperative extension program in the Democratic Republic of Congo: UM and UNIKIN Partnership-updated/resubmitted from last year. USAID. \$125,000. **Collaborator only, Stephan Tubene, PI.**
- Growth and physiology of thin horses re-fed diets containing probiotics. CHR Hansen Company Explore 2004. Submitted Fall 2003. \$25,000. The effects of diet on endocrine and metabolic responses in the starved horse. MD. Ag. Exp. Station. Submitted Fall 2003. \$40,000. **Collaborator only**
- Metabolic responses to diet in refeed starved horses. Grayson Jockey Club. Submitted Fall 2003, \$63,091. **Collaborator only.**
- Epidemiology of salmonella in Maryland swine herds. MD Ag. Exp. Station grant. \$40,000. Fall 2002. **Collaborator only, Yvette Johnson, PI.**
- Recruiting future scientists to protect the safety and quality of our food supply. USDA Teaching Capacity Building. \$200,000. Spring 2003. **Co-PI**
- Risk assessment validation for HACCP plans and industry impact. USDA-CSREES Integrated Research, Teaching and Extension Grant, Food Safety program. \$600,000. Spring 2003. **Co-PI**
- The effects of refeeding on endocrine responses in the chronically undernourished horse. MD Ag. Exp. Station grant. Fall 2002. \$40,000. **Collaborator only, Tom Hartsock, PI.**
- Integrating condensed tannins into grazing programs for sustainable parasite control in goats. Co-PI; Collaboration with Mississippi State University. USDA Southern SARE-PDP Grant, \$149,249. Summer 2002. *Pre-proposal was accepted* for full proposal. **Collaborator, Lora Ballweber and Brian Rude, PIs.**
- Developing a cooperative extension program in the Democratic Republic of Congo: UM and UNIKIN Partnership. USAID. \$125,000. *Preproposal accepted*, full proposal due Fall 2002. **Collaborator only, Stephan Tubene, PI.**
- Alternative small farm livestock producer survey to identify on-farm research needs and assist in resource allocation. NESARE Partnership grant. \$6897. Fall 2002.
- Effects of dexamethasone treatment on HPA axis development and growth of piglets delivered naturally or via Cesarean section and either suckled or unsuckled. MD Ag. Exp. Station, \$39,945. **Collaborator only, Tom Hartsock, PI** Fall 2001.

- A cooperative effort to increase 4-H market goat and market hog project participation by youth on the Eastern Shore – Swine program component. MCE, Extension Program Development Grants, \$4990. Fall 2000.
- Early weaning of Cesarean section versus naturally born piglets. MD Ag Exp Station, \$39,940. **Collaborator only, Tom Hartsock, PI** Fall 2000.
- Equipment to measure carcass characteristics in goats fed poultry litter. USDA-CREES, NRI Equipment Grant, \$24,900. Fall 2000.

EXTENSION/OUTREACH EXPERIENCE

Agent training

Livestock IPM/FAMACHA certification/FEC; South Carolina and NC agents, Nov 30, 2010, 10 participants

Hands-on Goat Handling/Management Training, Nov 18, 2010, 6 participants

Livestock IPM/FAMACHA Training Aug 23, 2010 – 10 participants

Writing Success stories (40+ participants; NCSU Animal Science Agents) and Selecting Goat Breeding stock (6 participants), NCSU An Sci in-service, Aug 2-3, 2010

Success stories/impact evaluation, ANR/CRD agents, July 7, 2010 – 20 participants

Small Ruminant IPM/FAMACHA Training Apr 2010 (with producers) – 12 participants

Pasture Pork Training – Feb 25, 2010; 10 participants

Cattle AI (with producers) – Dec 12, 2009; 3 enrolled

Swine and Cattle AI (with producers) – Oct 10, 2009; 2 participants

Fecal egg counting (with producers) – Sept 28, 2009; 2 participants

Impact evaluation/writing success stories, June 23 and 25, 2009; 23 participants

Livestock Integrated Parasite Management, June 23 and 25, 2009, 6 participants

Animal Disaster Emergency Training/Biosecurity, NAIS presentation, helped develop biosecurity poster for agents to give to producers; Sept. 2008

Extension programs and presentations

Putting Small Acreage to Work Conference, Dec. 4, 2010; presented on Small Ruminant Health programs, developed handouts/evaluation

Central Livestock farm tours by Keith Baldwin, Nov 16, 2010 attended and provided comments and answered some participant questions

Johnston County Field Day, Fecal Egg Counting, Nov 13, 2010; provided educational materials, taught fecal egg counting (assistance from Extension Associate)

Pasture pig parasites, Nov 9, 2010, Duplin County – identified speaker for agent, organized Associate and Agent to conduct sampling of producers farms for parasites (grant funded)

Small Ruminant FEC, Nov 1, 2010, Richmond County- developed and conducted presentation and evaluation, developed folder of materials; put together FEC kit to stay in county

Livestock IPM/FEC, Oct 28, 2010, Moore County – developed and conducted presentation and evaluation; updated previously developed notebook; put together FEC kit to stay in county

Raising quality grass-fed beef, Oct 11, 2010 with OSP, Caswell County-developed and conducted presentation

Impacts on semen production in goats, Oct 6, 2010, Johnston County – developed and

conducted presentation

Livestock IPM/FAMACHA certification, Sept 16, 2010– organized and conducted. Pasture Pork Demonstration Farm Tours, Sept 9, 2010 – helped develop demonstration farms over 2-year period; helped organize and conduct tours; helped prepare evaluation tool.

Goat Reproduction, breeding and AI workshop, Aug 24, 2010; organized with agent, invited speakers and assisted with hands-on sessions, organized estrus synchronization for animals, provided notebooks (with assistance from Extension Associate), provided evaluation

Small Ruminant IPM/FAMACHA (producers) and Sheep and Goat Workshop, Aug 23, 2010; organized with agent, invited speakers and participated as a speaker, developed notebooks (with assistance from Extension Associate), helped with evaluation

Ashe County farm pasture walk; parasite management through pasture/animal management; July 26, 2010; developed handouts and gave out forage sticks

Summer Small Farm Field Day, NCA&TSU Farm; July 20, 2010; provided abstract with Dr. Oh's research, served as Outdoor Swine project speaker, developed evaluation tool, served on organizational committee, helped obtain sponsors

Southeast Goat and Sheep Seminar, 200+ attended, Apr 2010, Fecal egg counting presentation; developed handouts/educational materials

NE Grower's School for Livestock producers, Meat processing and direct marketing (Jan 2010), Intro to pasture pork production (Feb 2010), Intro to sheep/goat production (Mar 2010), Health programs for sheep/goats and outdoor swine (Apr 2010), and Starting a new enterprise (May 2010); worked with advisory group to come up with topics, obtained instructors, developed/organized educational materials, developed/conducted surveys.

Small Ruminant IPM/FAMACHA Training (with agents), organized training/registration, developed educational materials; presented information, Apr 2010

Grower's Schools for pasture swine producers, Feral Swine (Jan 2010), Outdoor farrowing (Feb 2010), Marketing and processing (Mar 2010), Ag Safety/Health (Apr 2010), On-farm food safety (May 2010); worked with agents to come up with topics and helped find speakers.

NE Grower's School for Livestock producers, Forage and Pasture Management, worked with advisory group to come up with topic; obtained instructor; developed/organized educational materials; developed survey; Dec. 2009

Grower's School for pasture swine producers, Funding for Farmers, worked with agent to come up with topic; survey design and implementation; Dec. 2009

Cattle AI workshop (for producers and agents); initiated workshop, obtained instructors, to develop educational materials, to develop evaluation survey; Dec 12, 2009

Swine and Cattle AI workshop (for producers and agents); organized workshop, asked Dr. Noble to present cattle information; developed swine PowerPoint presentation and educational materials for swine and beef; taught swine section; developed SNAP computer/Powerpoint impact evaluation survey; analyzed results; Oct 10 2009

NE Grower's School for Livestock producers, Grass Fed Beef, worked with advisory group to come up with topic; obtained instructor; developed/organized educational materials; developed/conducted SNAP survey; Nov. 2009

Grower's School for pasture swine producers, Housing and Equipment, worked with agent to come up with topic; sent demo farm pictures to agent to develop PowerPoint presentation; Nov. 2009

Grower's School for pasture swine producers, Feed Analysis, provided speaker information to agent, prepared educational materials, developed SNAP computer/Powerpoint impact evaluation survey, analyzed results and wrote immediate impact report; Sept. 2009

Grower's School for swine producers, Animal Health, scheduled speaker, prepared educational materials, developed SNAP computer/Powerpoint impact evaluation survey, analyzed results and wrote immediate impact report; May 2009

Grower's School for swine producers, Carcass/Meat Quality, scheduled speaker, prepared educational materials, developed SNAP computer/Powerpoint impact evaluation survey; Apr. 2009

Grower's School for swine producers, Breeds, Genetics and Breeding Stock Selection, scheduled speaker, prepared educational materials, developed SNAP computer/Powerpoint impact evaluation survey, analyzed results and wrote impact report; Mar. 2009

Pasture pork conference, co-developed the agenda, obtained speakers, co-developed logo, wrote up/updated agendas and flyers, helped advertise, organized farm tour prior to conference, developed educational materials, Feb. 2009

Grower's School for swine producers, Developing a Biosecurity Plan, scheduled speaker, prepared educational materials "kit", developed SNAP computer/Powerpoint impact evaluation survey, analyzed results and wrote impact report; Jan. 2009

Grower's School for swine producers, Record keeping (and USDA programs), organized meeting, developed hand outs; conducted survey, wrote impact results Dec. 2008

Grower's School for swine producers, Breeding and Genetics, scheduled speaker, prepare impact survey, develop hand outs; Nov. 2008

NC Natural Hog Producers meeting- presentation on record keeping; Oct 30 2008

Grower's School for swine producers, Economical feeding, research plans; scheduled speaker, prepared handout and evaluation surveys for this and COOL, wrote up results, Oct. 2008

Grower's School for swine producers, COOL and mycotoxin presentations, discuss producer needs with Dr. Noble: , assisted in preparing handouts, Sept. 2008

Animal Disaster Emergency Training/Biosecurity, NAIS presentation, helped develop biosecurity poster for agents to give to producers; Sept. 2008

Goat and Sheep 101, Animal Sciences Update, Sheep and Goat Selection – 3 workshops provided Fall 2008 by Graduate student/mentee, Shannon Uzelac

Goat and Sheep Auction and Workshops, presented Nutrition section, provided handouts for sections on hoof trimming and health and judging/selection; LS Goat/Sheep Producers' Association, Apr 2008

Goat and Sheep Workshop, helped organize, Feb, 2008

Lambing and Kidding workshop, helped organize/present; (130 attendees), Dec., 2007

Women in Ag seminar with Small Farms Conference, organize/present; November, 2007

Sheep and Wool Festival, carcass contest (promoted to Chair for 2008)/skillathon; May 2007

Goat AI workshop, organized and participated; November 2006

Small Farms Conference, Small Ruminant Mgt, November 2006

Small Farms/Sheep & Goat Workshop; organizer and presenter; March 2006
Lambing and Kidding School (180 attendees); presenter and organizer, Dec. 10, 2005
Coordinated/hosted Integrated Parasite Management workshop for small ruminants, June 2004
Trained 20+ 4-H Youth in Livestock Quality Assurance, Apr-July, 2004
Research and outreach efforts involving meat goat production, JAMAICA, 2002
Demonstration project – pasture lamb and goat production, 2002
Workshop to explain and sign up producers for the Scrapie Mandatory ID program, 2002
Invited Speaker/afternoon moderator Maryland Meat Goat Workshops, 2001, 2002
Swine 4-H Project to increase number of youth in 4-H livestock projects, 2001
Swine artificial insemination workshop (organized and conducted), 2000, 2001
Demonstration project: Possible use of poultry litter pellets in goat diets, 2001, 2002
Lower Shore Goat Producer's Association, host and presenter, 2000-2008
State of Maryland NPPC PQA Level III Certification Leader, 2000-present
Maryland State Fair Asst Swine Superintendent, 2000-04, 07 Superintendent 05,06
National Extension Swine Advisory/ Extension Educators Group, Maryland representative
(NPPC) 2000-present
1 of 4 authors of swine-related newspaper articles "Pig Tales" in the weekly Delmarva Farmer
Invited speaker/presenter at Somerset/Worcester County Livestock Club meetings (3)
MCE - UMES Goat Field Day host and assisted in development, 2000

Extension - Invited presentations/assignments

Reviewer for Langston Meat Goat Handbook, Livestock Guardian chapter, June 2010
Parasite resistance to dewormers in cattle, Davidson County Cattleman's Association meeting program presenter, Dec 7, 2009
Extension assistance for Sheep Producers from NCA&TSU; NC Sheep Producers Association Annual Meeting presenter; Dec 5, 2009
Western Meat Goat Association; fecal egg counting and parasite control. Developed PowerPoint presentation and educational materials, developed SNAP computer/Powerpoint impact evaluation survey and a follow-up survey for agent, analyzed results and wrote impact report; Sept 28, 2009
Vaccination for Risk Management (Ruminants); Forsythe County, Mar 12, 2009
Western Meat Goat Association on Feeds and Feeding for Meat Goats. Developed PowerPoint presentation and educational materials, developed SNAP computer/Powerpoint impact evaluation survey including a needs assessment, analyzed results and wrote impact report; Mar. 31, 2009
Integrated Parasite Management; Forsythe County; Oct 29, 2008
Goat and Sheep 101, Animal Sciences Update, Sheep and Goat Selection – 3 workshops provided Fall 2008 by Graduate student/mentee, Shannon Uzelac
Invited speaker, Small Farms Conference, Nov. 4, 2005
Invited presenter to help with Sheep 101 at the Katahdin Hair Sheep International 2005 meeting, Lexington, KY September 2005
Invited speaker, VSU hair sheep conference, June 2005
Keynote speaker, New Jersey Junior Breeder Livestock Symposium, March 2005
Invited speaker, Missouri Boer Goat Producers Association, January 2005
Invited presenter, Western MD Sheep/Goat Genetics Conf., Oct. 2004
Invited speaker, Small Farms Conference – UMES. Nov. 20, 2004
Invited presenter at Delaware State University Meat Goat Conference, Jan. 2004

Invited presenter at the 2003 Mid-Atlantic Meat Goat Symposium, Suffolk, VA, Aug, 2003
Invited presenter at Caroline County Lower Shore Meat Goat Workshop, April 19, 2003
Invited speaker/presenter for PA Meat Goat Conference. Over 100 attended. 2003
Presenter, Regional MD-VA-NC Goat and Sheep Nutrition Workshop, 2002-2003
Maryland Sheep and Goat Producer Newsletter, author of quarterly column 2002-2008
Invited speaker, Garrett County Community College Goat Conference, 2002

Committees and Offices

National:

Member, National ASAS Graduate Student Symposium Program Committee, 2010-
Member, National Goat Conference abstract committee, 2010
**President for 2009-2010, and President-Elect/Secretary 2008-2009, USDA-ASAS SSC81
Small Ruminant Research Committee/Information Exchange Group**
Member, National Agro-security Response Team, 2003-2008
Maryland representative, Coop Extension Curriculum Project Taskforce (CECP), 2001-2002.
Member, 2002, 2003 National ASAS Omega Protein Innovative Research Award Committee
USDA –APHIS NAIS-1890 liaison UMES representative, 2007
SJI (Scientific Journals International) review/advisory group member, 2007
Journal of Animal Science ad hoc reviewer, 2007
USDA-CSREES SBIR grant review panelist, Feb. 2007
Member, American Society for Animal Science, 1995-

Regional/State:

Chair, Small Ruminant Committee for Southern Section Animal Science, 2010-2011
Representative for NCA&TSU CEP, NC Coop Extension One-Stop-Shop committee, 2010-
Member, Agroforestry Interest Group/Stakeholder Interest Committee, 2010
Coordinator, Center for Environmental Farming Systems Swine Unit, 2009-
Member, NC Forages and Grasslands Council, 2009-
Member, NC Association of Cooperative Extension Specialists, Oct. 2008-
Member, North Carolina Assoc of Cty Ag Agents, Oct. 2008-
Member, SERA37, CELAC Latino Initiative Taskforce, 2008-
Invited member of the Southern Consortium for Small Ruminant Parasite Control, 2007-
**Member of Small Ruminant Committee for Southern Section Animal Science meetings
(review abstracts, organize events/moderators, serve as Chair in 2011), 2007-**
Special Member, Graduate Faculty at UMES, 2010 -
Member/Chair, Maryland Sheep and Wool Festival Carcass Contest committee (Chair starting
in 2008), 2005-2008 and member of Skillathon Committee 2006-2008
Maryland representative, Board of directors for SE Katahdin Hair Sheep Association 2002.
Maryland representative, 1890-Northeast Sustainable Agriculture Research and Education
Professional Development Program (NE SARE, PDP), February 2002-2008
Northeast Section ASAS graduate student competition committee member and judge, 2000
Ex-officio board member for Maryland Pork Producer's Association 2000-2008

Local/University:

Chair, Search Committee, Evaluation and Accountability Coordinator; Extension Associate
position Search Committee Chair, 2010
Member, Small Farm Field Day Committee, 2009 and 2010

Member, Search Committee, Associate Dean for Research, 2009

Member, NCA&TSU Animal Science graduate student committees 2009, 2010

Member, Advisory Group for NCA&T CEP Promotions, 2008

Member, Small Farm Week, Small Farmer of the Year Committee, 2008 for 2009

Member, Small Farm Week, Educational session committee, 2008 for 2009 and 2010 or 2011

Member, NCA&T Cooperative Extension Marketing Committee, 2008

Chair, UMES Dept of Agriculture Scholarship Committee, 2004-2008

Member, Dept of Ag, Food and Res Sciences Assessment Committee, 2007-2008

Member of Curriculum Committee and Recruiting/Retention Committee, 2004-2007

Member, Admissions Committee for FASC/FDST graduate programs 2004-2008

Member, School of Ag and Nat Sciences (SANS) curriculum committee, 2004-2005 and Dept of Ag curriculum committee, 2007-2008

Member, 4-H Livestock Ethics Committee, Somerset County, 2003

Member, Recruitment, Retention and Scholarship committee, 2001-2002, UMES

Member, Promotion and Tenure Guideline revision committee, 2001-2002, UMES

Member, UMES-MCE small farm stakeholder committee, 2001

Search Committee Member (1 MSU, 3 UMES); Chair search committee (1 UMES)

Recruitment liaison for Department of Agriculture, 2000-2001 UMES

Chair, Recruitment, Retention and Scholarship committee, 2000-2001 UMES

Member, School of Agriculture/Natural Sciences Awards and Recognition Committee, 2000-2001, 2002 UMES

Member, MCE - UMES Goat Field Day committee (speaker/presenter/organizer), 2000

UMES Radiation Safety Committee Member 2000-2008

Somerset County Fair Board; 2002, 2003, 2005, 2006, 2007, 2008 (Officer all years)

Other Outreach and Service

Reviewer/editorial advisor for Journal of Agriculture, Food Systems and Community Development, 2010-

Invited by Board of Directors to serve 3-yr peer reviewer term - J. of Extension, 2007-2010, invited for second 3-yr reviewer term (2010-2013)

Contributions to eXtension Goat Industry CoP: Vaccinations, Goat Hoof Care, 2009-2010

Ad hoc reviewer for Journal of Veterinary Science (2007 to present) and Journal of Animal Science (2000 to present)

Invited speaker (UMES Livestock Research), Delaware State University, Feb 2008

Southern Sect Animal Sci meetings, Small Ruminant Production **Session Chair**, Feb. 2007

Association of Research Directors meeting, 2006 – Presentation contest judge and session moderator (replacement for moderator who could not be there)

USDA-CSREES SARE grant review panelist, 2005 (Farmer/Grower), 2006-2007 (PDP)

USAID (Israel) ad hoc grant/panel reviewer, 2005

Invited speaker/panelist for 2003 National ASAS meeting (Goat Session; Symposia on Reproduction in Goats); Summer 2003

Invited speaker for USDA-ARS AALAC accreditation group (Small Ruminant Management); developed presentation and handouts for graduate students to deliver, Fall 2002

Association of Research Directors meeting, 2002 – Poster contest judge (Small Farms)

American Society of Animal Science, **National** meeting 2002, Goat Species session moderator and Internal parasite control symposium co-moderator, Quebec, Canada

Co-advisor of Animal and Poultry Science Club, UMES 2000-2006

NRI Grant Ad-Hoc reviewer, 2000
4-H volunteer/collaborator, 2001 – 2008

PROFESSIONAL DEVELOPMENT

IACUC and IRB online training (CITI), November 17, 2010
Blackboard and Web 2.0 tools, November 19, 2010
Goat timed AI demonstration, November 15, 2010
Using Technology in Extension, September 17, 2010
The Oz Principle and Impact/Success Story Evaluation and Reporting, August 9-10, 2010
Rabbit production workshop, March 27, 2010
Cattle production training for female Extension personnel, March 24, 2010
Equine training and equipment fitting: June 2010 and Aug 15, 2010
Grant writing webinar, AEA, Jan 20, 2010
Select Sires Cattle A.I. Short course, Dec 15-17, 2009
Grant writing workshop, A&T CEP, Nov 11, 2009
Pasture Poultry Conference, Chatham County, Dec 3 2008
Curriculum Development Training, NCA&T, Nov 21, 2008
SNAP Evaluation Software Training, NCA&T, Dec., 2008
IRB training online (CITI), September 5, 2008
Equine Reproductive Management and Artificial Insemination course, April 4-5, 2008

TEACHING EXPERIENCE

North Carolina A&T State University

Guest lecturer:

Equine Science, March 31, 2010, Mare and Stallion Reproduction
Equine Science, March 16, 2009, Mare and Stallion Reproduction

University of Maryland Eastern Shore (2000-2008)

ANPT 202 Practicum in Animal and Poultry Technology. 2 credit hours. Offered every semester. **Developed a time sheet and evaluation rubric for students.**

ANPT 228A, Biotechnology in Today's World, University of Maryland Eastern Shore
1 credit hour. Spring 2002. **Experimental course, developed by Dr. Whitley via a funded USDA Challenge (Teaching) Grant.** Lab assignments and discussion sessions.

ANPT 304/304H, Reproductive Physiology, University of Maryland Eastern Shore
4 credit hours. Taught Spring semester only. **Developed a web site and a CD of reference materials for students taking the course.** Re-named the course (was ..in domestic animals) **and included information about companion animals and wildlife; weblog**

ANPT 399. Internship in Animal and Poultry Technology. 1-5 credit hours. Offered every semester. **Developed an evaluation rubric for students that was eventually adapted to use for assessment for the whole Department.**

ANPT 433 Livestock Production, University of Maryland Eastern Shore
3 credit hours. **Developed Fall 2001 and offered Fall every other year. Developed a website for the course and a CD of reference materials for students taking the course.**
Course covers sheep and goat production as well as beef cattle production.

ANPT 473, Swine Production, University of Maryland Eastern Shore
3 credit hours. Taught Fall semester every other year.

ANPT 480/680 Independent Studies in Animal and Poultry Technology

1-5 credit hours. Taught as needed. [Developed the 480 to help students.](#)
ANPT 499/699 Special Topics in Animal and Poultry Technology
1-5 credit hours. Taught as needed. [Developed the 699 to help students](#)
AGSC 600 Agricultural Sciences Seminar (graduate seminar)
1 credit hour. Taught every semester since Fall 2000.
ANPT 688A Advanced Comparative Reproductive Physiology.
4 credit hours. [Experimental Course](#), Taught as needed (2001, 2007)
ANPT 799 Masters Thesis Research
1-6 credit hours. Taught as needed.
FDST 899 Doctoral Dissertation Research
1-6 credit hours. Taught as needed.

Teaching Assistant for:

ADS 1114, Animal Science, Laboratory (MSU). 3 semesters
ADS 3312, Livestock Management Practices, AI laboratory, Pig processing laboratory (MSU)
2 Semesters.
ADS 4213/6213, Livestock Nutrient Requirements and Formulation of Rations (MSU)
1 Semester.
PHY 8133, Endocrinology (MSU) 1 Semester.
ADS 201, Introduction to Animal Science, laboratory (UGA). 1 Quarter.
ADS 340, Physiology of Reproduction, laboratory (UGA). 2 Quarters.
ADS 361, Swine Production and Management, laboratory (UGA). 1 Quarter.

Other:

Guest lecturer, Sheep and Goat Production course, Wayne Community College, Sept 2010

GRADUATE STUDENTS AND UNDERGRADUTE RESEARCH

Graduate students – primary advisor

Mark C. Gooden, Ph.D., Spring 2007 – [September, 2009 \(UMES student\)](#)
Dissertation: Influence of small ruminant feed additives on product acceptance
by consumers

Other research: Parasite issues in small ruminant production

Maegan Perdue, M.S., Fall 2007-[September 2009 \(UMES student\)](#)
Thesis: Anthelmintic resistance in small ruminants in Maryland.

Shannon Uzelac, M.S., Summer 2007-[September 2009 \(UMES student\)](#)
Non-thesis creative component: An Extension manual for beginning goat
producers, including a survey of topics to include in manual.
Research involvement: Parasite studies, wild bird/food safety research

Radha Subburanthinum, M.S. Fall 2005-May 2009
Non-thesis creative component: Effect of urocortin on pituitary cells in culture

Luis Echevarria Falcon, M.S., Fall 2007-Fall 2008 (new advisor provided),

Part time, non-thesis student

Damian Cazac, Ph.D., Summer 2005 – Fall 2006

Dissertation: Use of probiotics in meat goats

Other research: Probiotics in horses; sustainable lamb production

Working at the USDA in Food Safety area

Dahlia Jackson, Ph.D. Fall 2002-Fall 2005

Dissertation: Meat and carcass quality in crossbred lambs raised on pasture

Other research: The influence of a novel stress hormone on reproductive and growth hormones in pigs; on-farm food safety; sustainable lamb

production; ***Delaware State University Small Ruminant Specialist; 2009 B.D. Mayberry Young Scientist Award Winner (DESU)***

Laura Fawley Caruso, M.S. Summer 2003 – Spring 2005

Non-thesis creative component/research project: Probiotics in goats

Work: VA Extension for 2 years, Smithfield quality meats in VA, 2008, considering PhD program

Christa Fletcher, M.S. Spring 2002- Spring 2004

Thesis: Goat/sheep parasite resistance to anthelmintics/UMES Farm.

Other Research: Post-partum rebreeding in meat does; development of the Mandatory Scrapie (Identification) Program at UMES. *Teaching K-12.*

Kenneth Karanja, Ph.D. (primary co-advisor) Spring 2002-Spring 2003

Research: Cloning a novel gene involved in stress response. *Transferred to Univ. Minnesota to finish PhD in Molecular Biology/Bioinformatics*

Dahlia Jackson, M.S. Fall 2000-Spring 2002

Thesis: Economically viable reproductive management strategies for meat goats

*Also conducted research involving urocortin in swine and feeding poultry

litter to goats. *Continued for PhD.*

Dawn Ferrara, M.S. Spring 2000-Fall 2001

Thesis: Poultry litter as a feed ingredient in goat rations. *Graduated Vet School, working as a clinical Veterinarian.*

Graduate Students **Accepted** at UMES who **applied** to work with Dr. Whitley

Bridgett Hagens, enrolled Ph.D. student – accepted to start Fall 2008 to conduct research involving the impact of wild birds on farm hygiene and food safety; has M.S. from Mississippi State; changed advisors when Dr. Whitley left UMES, Dr. Whitley still on graduate committee and still research advisor

Brittany Butler, enrolled M.S. student – applied to start Fall 2008; interested in working at USDA in the research inspection field after a summer internship there; changed advisors when Dr. Whitley left UMES

Elizabeth Crooks, accepted M.S. student – accepted for Fall 2008 but steered her towards DESU

to work with collaborator Dr. Jackson-O'Brien since it is closer to her home and Dr. Whitley leaving UMES; graduated with M.S. from DESU and accepted to Vet School at VT.

Graduate Committee Member or co-primary advisor, **not primary advisor**

Ruth Pender, M.S., NCATSU, 2010-
Sequoia Ireland, M.S., NCATSU, 2010 -
D. Sandeep Kommuru, M.S., FVSU, 2010-
Sam Lucas, M.S., FVSU, 2010
Elizabeth Crook, M.S., DESU, 2008-2010
Treasure White, M.S., NCATSU, 2008-2009
Lisa Dennis, Ph.D./ED Leadership program, UMES, 2007-2009
Mark C. Gooden, Ph.D., UMES, September 2009 – **present**
Maegan Perdue, M.S., UMES, September 2009 – **present**
Shannon Uzelac, M.S., September 2009 – **present**
Bridgett Hagens, M.S. Mississippi State University, 2005-2006,
and PhD UMES 2008-**present**
Brett Wood, Ph.D./MEES program, 2002-2008
Rachael (Weaver) Quinn, UMCP, M.S., 2001-2002; Ph.D., 2002-2007
Christa Fletcher, Ph.D., 2004-2006
Kenneth Karanja, M.S., 2001-2002

Undergraduate Research

Marquita Dill, Tristan Wilhelm, Patrice Jackson – Spring 2004
Basics of biotechnology; Isolation of DNA from blood, PCR
Eric Collier/Christa Fletcher, Fall 2001
Project: Temporary kid removal to decrease the post-partum interval in goats.
Stacey Harley, Spring 2001
Project: Correlation between milk and serum leptin in does and their offspring.
*Included kid growth performance and leptin correlations
Stacey Harley, Fall 2001
Project: Milk leptin in does and their offspring; feeding poultry litter to sheep

Summer research internship students:

2001 Cameron Adams – Student from London Royal College of Vet Medicine
Shelley Armour – UMCP student doing research at UMES swine facility
2002 Michelle Johnson – AMP (Alliance for Minority Participation)
Shan'a Fisher – AMP, recruited into Agriculture
Alisha Dewitt – AMP
2003 Cheryl Morris – GIS/Animal Science
Qundeel Rafiq – GIS/Animal Science
Nadia Rafiq - GIS/Animal Science
2004 Jennifer Raffetto – Student from London Royal College of Vet Medicine
Kristen Walker - AMP (Alliance for Minority Participation)
Brandon Flowers – AMP
Amanda Bohler – volunteer from Delaware Valley College
2005 Jana Goetz - AMP (Alliance for Minority Participation)

Ricky Johnson - AMP
Andrew Hankerson - AMP
Karl Binns - AMP
2006 Shannon Uzelac – volunteer and student worker, UMES
2007 Caitilin Cossaboom – volunteer from Virginia Tech University

REFERENCES

Nancy M. Cox, Associate Dean for Research
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Duane H. Keisler, Professor Animal Science
University of Missouri
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Henry M. Brooks, Administrator and Assoc. Director
Maryland Cooperative Extension, University of Maryland Eastern Shore
Phone: 410-651-6206
E-mail: hmbrooks@umes.edu

Carolyn B. Brooks, Executive Director – ARD/USDA
University of Maryland Eastern Shore
Phone: 410/651-6072
Email: cbbrooks@umes.edu

MANUSCRIPT PUBLICATIONS (*NCA&TSU)

*Lee, L., S.-H. Oh and **N. C. Whitley**. 2010. Study on genetic evaluation for linear type traits in Holstein cows. *Asian-Aus. J. Animal. Sci.* 23:1-6

Whitley, N.C., J. E. Miller, J. M. Burke, D. Cazac, D. J. O'Brien and L. Dykes and J.P. Muir. 2009. Effect of high tannin grain sorghum on internal parasite fecal egg counts in goats. *Small Rumin. Res.* 87:105-107.

Whitley, N.C., D. J. O'Brien, R.W. Quinn, D.H. Keisler, and M. A. Brown. 2009. Milk leptin in sows and serum leptin and growth of their offspring. *J. Anim. Sci.* 87: 1659-1663.

Hagens, B.E., C.W. Dunaway, **N. C. Whitley**, and B. J. Rude. 2009. The effects of cracking whole cottonseed on apparent nutrient digestibilities, N and energy retention, and in vitro

dry matter disappearance when fed to goats. *J. Anim. Vet. Adv.* 8:1372-1376.

Whitley, N.C., D. Cazac, B. Rude, D. Jackson-O'Brien, and S. Parveen. 2009. Use of a commercial probiotic supplement in meat goats. *J. Anim. Sci.* 87: 723-728.

Quinn, R.W., A. O. Burk, T. G. Hartsock, **N.C. Whitley**, D. L. Keisler, K. H. Treiber and R.C. Boston. 2008. Effects of weight gain on glucose and insulin dynamics, leptin and measure of oxidative stress in Thoroughbred geldings. *J. Equine Vet. Sci.* 28:728-738.

Whitley, N.C., E. L. McFadin-Walker, S. A. Harley and D. H. Keisler. 2005. Correlation between blood and milk serum leptin in goats and growth of their offspring. *J. Anim. Sci.* 83:1854-1859.

Jackson D. J., C.M. Fletcher, D.H. Keisler, and **N. C. Whitley**. 2005. The use of melengestrol acetate (MGA) or kid removal during the non-breeding season or postpartum period in meat goats. *Sm. Rum. Res.* 66:253-257.

Jackson, D.J., B.J. Rude, K. K. Karanja, and **N.C. Whitley**. 2005. Poultry litter pellets in meat goat diets. *Sm. Rum. Res.* 66:278-281.

Whitley, N.C. and D. J. Jackson. 2004. An update on estrus synchronization in goats: a minor species. *J. Anim. Sci.* 82: E270-276E (Proceedings).

Ealy AD, Wagner SK, Sheils AE, **Whitley NC**, Kiesling DO, Johnson SE and Barbato GF. 2004. Identification of interferon-tau isoforms expressed by the peri-implantation goat (*Capra circus*) conceptus. *Dom. Anim. Endocrinol.* 27(1):39-49.

Buff, P. R., A. C. Dodds, C. D. Morrison, **N. C. Whitley**, E. L. McFadin-Buff, J. A. Daniel, J. Djiane, and D. H. Keisler. 2002. Leptin in horses: Tissue localization and relationship between peripheral concentrations and body condition. *J. Anim. Sci.* 80:2942-2948.

McFadin, E.L., C. D. Morrison, P.R. Buff, **N. C. Whitley**, and D. H. Keisler. 2002. Leptin levels in peri-parturient ewes and their subsequent offspring. *J. Anim. Sci.* 80:738-743.

Morrison, C. D., R. Wood, E.L. McFadin-Buff, **N. C. Whitley**, and D. H. Keisler. 2002. Effect of intravenous infusion of recombinant ovine leptin on feed intake and serum concentrations of GH, LH, Insuling, IGF-1, cortisol, and thyroxine in growing prepubertal ewe lambs. *Dom. Anim. Endocrinol.* 22:103-112.

Whitley, N. C., M. N. Quirk-Thomas, J. L. Ramirez, A. B. Moore and N. M. Cox. 2002. Interactions between postweaning feed intake and responsiveness to insulin on reproductive performance in sows. *J. Anim. Sci.* 80:1038-1043.

Whitley N. C., C. R. Barb, R. R. Kraeling, J. B. Barrett, G.B. Rampacek, J. A. Carroll, and D. H. Keisler. 2000. Feed intake and serum GH, LH, and cortisol in gilts after intracerebroventricular or intravenous injection of urocortin. *Dom. Anim. Endo.* 19:209-221.

Whitley, N. C., E. L. McFadin-Buff and D. H. Keisler. 2000. Effect of insulin on feed intake and reproductive performance of well-nourished nulliparous ewes. *Theriogenology* 54:1049-1054.

Whitley, N. C., M. N. Quirk, J. O. Skelton, A. B. Moore, J. Purvis, Y. Qiu, and N. M. Cox. 1998. Influence of insulin on follicular development and the intrafollicular IGF-I system in sows. *J. Reprod. Fertil.* 112:175-184.

Whitley, N. C., A. B. Moore, and N. M. Cox. 1998. Comparative effects of insulin and porcine somatotropin (pST) on post-weaning follicular development in sows. *J. Anim. Sci.* 76:1455-1462.

Whitley, N.C., D. P. Payne, H. Zhang, and N. M. Cox. 1998. Influence of insulin administration after weaning the first litter on ovulation rate and embryo survival in sows. *Theriogenology* 50:479-485.

Popwell, J. M., M. J. Estienne, R. R. Kraeling, C. R. Barb, **N. C. Whitley,** R. V. Utley, and G. B. Rampacek. 1996. The role of excitatory amino acids in pulsatile secretion of luteinizing hormone in gilts and barrows. *J. Anim. Sci.* 74:1067-1073.

Whitley, N. C., C. R. Barb, R. V. Utley, J. M. Popwell, R. R. Kraeling, and G. B. Rampacek. 1995. Influence of stage of the estrous cycle on insulin-like growth factor-I modulation of luteinizing hormone secretion in the gilt. *Biol. Reprod.* 53:1359-1364.

Manuscripts submitted (*=NCA&TSU):

Manuscripts in preparation:

***Eley M. and N. Whitley.** Pasture Pork-Multiple tools for multiple issues. *J. Extension.* J. Burke, **N.C. Whitley,** J. Miller and T. Terrill. Sericea lespedeza pellet use as a potential natural dewormer in sheep and goats.

R.W. Quinn, T. G. Hartsock, **N. C. Whitley** and L. W. Douglass. Novel birth-weaning feeder reduces time spent learning to drink from an open vessel. **Draft completed by co-author.**

N.C. Whitley, P. Ryan, B. Rude, D. Cazac. Use of probiotics in weanling horses. **Draft started, waiting on collaborators/co-authors for information**

D.J. Jackson, J. W. Lemaster, S. Schoenian and **N.C. Whitley.** Comparison of growth, parasite resistance and meat quality of crossbred Katahdin lambs on pasture. **Student dissertation – 3 manuscripts in preparation**

N.C. Whitley, D. J. O'Brien, R. Subburathinam and C. R. Barb. Influence of urocortin on luteinizing hormone release from porcine pituitary cells in primary cell culture.

ABSTRACTS (* = NCA&TSU)

***Whitley, N.C.,** M. A. Perdue, S. Schoenian, R.M. Kaplan, B. Storey, T.H. Terrill, J.M. Burke,

- W.R. Getz, S. Mobini, and J.E. Miller. 2011. Impact of Small Ruminant Integrated Parasite Management and FAMACHA® Training in the United States. *J. Anim. Sci.* 87 E-Suppl. 2: in press.
- *Abdalla, A, H. Mukhtar, **N. Whitley**, S. Ibrahim and M. Worku. Isolation of genomic DNA and detection of goat ruminal *Bifidobacterium* spp. In press; ARD proceedings, April, 2011
- *Miller, J.E., T. H. Terrill, J. M. Burke, J. A. Mosjidis and **N.C. Whitley**. 2010. Dose titration effect of sericea lespedeza feed pellets on gastrointestinal nematode infection in lambs. AAVP (Am Assoc Vet Para): in press.
- *O'Brien, D.J., M.C. Gooden, J.C. Warren, E.K. Crook, J.E. Miller, **N.C. Whitley**, and J.M. Burke. 2010. Efficacy of ginger and pumpkin seeds in controlling internal parasites in meat goat kids. *J. Anim. Sci.* 88 E-Suppl. 1: in press.
- ***Whitley, N.C.**, T.H. Terrill, J.E. Miller, and J.M. Burke. 2010. Influence of diets containing sericea lespedeza leaf meal on gastrointestinal parasite fecal egg counts in goats. *J. Anim. Sci.* 88 E-Suppl. 3:33.
- ***Whitley, N.C.**, J-M. Luginbuhl, S. Schoenian, and M. Worku. 2010. Survey of North Carolina sheep and goat producers after gastrointestinal parasite management training. *J. Anim. Sci.* . Small ruminant producer gastrointestinal nematode (GIN) management survey. *J. Anim. Sci.* 88 E-Suppl. 3:35.
- *Perdue, M. A., **N.C. Whitley**, S. Schoenian, and D. J. O'Brien. 2010. Impact evaluation of integrated parasite management training conduct in the Northeast US over a two-year period. *J. Anim. Sci.* 88 E-Suppl. 3:35.
- *Crook, E.K., D.J. O'Brien, S.B. Howell, B. Storey, **N.C. Whitley**, S. Schoenian, J.M. Burke, R.M. Kaplan. 2010. Anthelmintic resistance in gastrointestinal nematodes of sheep and goats in the Mid-Atlantic U.S. *J. Anim. Sci.* 88 E-Suppl. 3:12.
- *Oh, S.-H., A. Singletary, T. Daniels, T. Barrios, **N. Whitley**. 2009. Comparison of litter size and weight in different farrowing types and crossbreds of outdoor system. Proceedings from the Inaugural ASAS-CAAV Asia Pacific Rim Conference, Nov 8-10, p. 56.
- ***Whitley, N.C.**, R.M. Kaplan, J.M. Burke, T.H. Terrill, J.E. Miller, W.R. Getz, S. Mobini, E. Valencia and M.J. Williams. 2009. Small ruminant producer gastrointestinal nematode (GIN) management survey. *J. Anim. Sci.* 87 E-Suppl. 2:310.
- *Lee, D.-H., S.-H. Oh, and **N. C. Whitley**. 2009. Study on genetic evaluation for linear type traits in Holstein cows. *J. Anim. Sci.* 87 E-Suppl. 2:204.
- *Holness, R.L., **N.C. Whitley** and K. Baldwin. 2009. Biomass yield and nutritive value of three forages for silage. *J. Anim. Sci.* 87 E-Suppl. 2:418.
- *O'Brien, D.J., K.K. Mathews, J.E. Miller, **N.C. Whitley**, E.K. Crook and J.L. Eierman. 2009.

Natural plant anthelmintic fails to reduce internal parasites in meat goat kids. *J. Anim. Sci.* 87 E-Suppl. 2:311.

*Eierman, J.L., D.J. O'Brien, E.K. Crook, R.A. Barczewski and **N.C. Whitley**. 2009. Estrus and mating response after synchronization protocols in meat goats. *J. Anim. Sci.* 87 E-Suppl. 2:308.

*Crook, E. K., D. J. O'Brien, N.C. Whitley, R.M Kaplan and J.M. Burke. 2009. Use of in vitro and in vivo tests to characterize anthelmintic resistance in sheep and goat farms in the Mid-Atlantic U.S. *J. Anim. Sci.* 87 E-Suppl. 2:128.

*Crook, E.K., D. J. O'Brien, **N.C. Whitley**, R. Kaplan, J.L. Eierman, and R.A. Barczewski. 2009. Anthelmintic resistance in small ruminants in the Delmarva region. *J. Anim. Sci.* 87 (Suppl 1):36.

*O'Brien, D. J., M.C. Gooden, and **N.C. Whitley**. 2009. Use of garlic as a potential natural dewormer in small ruminants. *J. Anim. Sci.* 87 (Suppl 1):32.

Whitley, N.C., T. H. Terrill, J. E. Miller, J. M. Burke and M.C. Gooden. 2008. Influence of sericea lespedeza pellets on gastrointestinal parasite fecal egg counts in goats. *J. Anim. Sci.* 86 (E-Suppl.2):92-93.

Eierman, J. L., R. A. Barczewski, **N.C. Whitley** and D. J. Jackson. 2008. Effectiveness of Regumate in synchronizing and inducing out-of-season breeding in goats. *J. Anim. Sci.* 86 (Suppl 2):30.

Jackson, D. J., **N. C. Whitley**, V. Suvanich and J. G. Schwarz. 2007. Feeding regime and breed effects on nutritional and sensory characteristics of meat from Katahdin crossbred lambs. *J. Anim. Sci.* 85(Suppl 2):36.

Jackson, D. J., R. Subburathinam, C. R. Barb, and **N. C. Whitley**. 2007. Influence of urocortin on luteinizing hormone (LH) release from porcine pituitary cells. *J. Anim. Sci.* 85(Suppl 2):20.

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POPULAR PRESS (*NCA&TSU)

NOTE:

Contributor to “Shepard’s Announcements”, Guilford/Rockingham Cty e-Newsletter, 2009

Contributor to “Weekly Pile”, Guilford/Rockingham Cty Equine e-Newsletter, 2009

Contributor to Western Carolina Boer Goat Association Newsletter 2009

Contributor to “R Ewe Kidding”, Forsythe/Stokes Cty Newsletter 2009

Regular contributor to Sheep and Goat Producer/Wild & Wooly Newsletter from 2002-2008.

Regular contributor to the Delmarva Farmer Newspaper “Pig Tales” column from 2000-2002.

***N. Whitley,** S. Schoenian, R. Kaplan, R. Storey, T. Terrill, J. Burke, J. Miller and S. Mobini. 2010. Impact of Integrated Parasite Management and FAMACHA© Training in the United States. Proceedings: National Goat Conference, September 12-15, 2010.

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*O’Brien, D.J., J.L. Eierman, E.K. Crook, K. K. Matthews, and **N.C. Whitley.** 2010. Estrus and mating response after estrus synchronization protocols in meat goats. Proceedings: National Goat Conference, September 12-15, 2010.

*Eley M. and **N. Whitley.** 2009. Pasture Pork: Considerations for small and limited resource livestock producers. Proceedings: 5th National Small Farm Conference, Aug. 2009

Schoenian, S., J. Semler, S. Wildeus and **N. Whitley.** 2006. Using the FAMACHA© system to control internal parasite in grazing lambs. National Assoc. of County Ag. Agents (NACAA) meeting and Professional Improvement Conference. **First place poster in the Applied Research category.**

Cazac, D. and N.C. Whitley. 2006. Use of probiotics in meat goats. 14th annual Mid-Atlantic HBCU Science Conference hosted by UMES.

Jackson, D. J., J. W. Lemaster, S. Schoenian and **N.C. Whitley.** 2004. Comparison of Dorper-, Texel-, and Suffolk-sired Katahdin Crossbred Lambs Raised on Pasture. Poster presentation at: Setting the Table: Tools and Techniques for a Sustainable Food System,

NE SARE conference, Burlington, VT

Fletcher, C. M., D. J. Jackson and **N. C. Whitley**. 2002. Use of 48-hour kid removal to decrease the post-partum rebreeding interval in meat does. [First place graduate student poster competition, 11th annual Mid-Atlantic HBCU Science Conference hosted by UMES.](#)

Jackson, D. J., B. J. Rude, K. K. Karanja, D. M. Ferara and **N. C. Whitley**. 2002. Poultry litter pellets in meat goat diets. [Second place graduate student poster competition, 11th annual Mid-Atlantic HBCU Science Conference hosted by UMES.](#)

Whitley, N.C., S. A. Harley, D. J. Jackson, E. L. McFadin and D. H. Keisler. 2002. Serum and milk leptin in does and growth of their offspring. Presented at 2002 HBCU Science Conference hosted by UMES as undergraduate poster.

Harley, S., **N. Whitley**, P. Buff, E. McFadin-Buff and D. Keisler. 2001. Correlation between blood and milk serum leptin in goats and their offspring. [First Place poster competition at the 2th annual Undergraduate Research Science Symposium, University of Missouri-Columbia as part of NSF funded program, Minority Access to Graduate Education.](#)

Whitley, N. C. and D. M. Ferara. 2001. Poultry litter as alternative feedstuffs for goats. (and) Swine Research, Teaching and Extension at UMES. *Posters and tours* at the 2001 UMES Farm and Family Field Day.

Dodds, A. C., J. A. Daniel, **N. C. Whitley**, and D. H. Keisler. 1999. Leptin and leptin receptor mRNA expression in horses. Presented in poster format at 1999 University of Missouri-Columbia Animal Science Graduate Student Forum.

Buff, P.R., **N. C. Whitley**, E. L. McFadin-Buff, W. E. Loch and D. H. Keisler. 1999. Vasoactive intestinal polypeptide influences prolactin secretion in pony mares. University of Missouri-Columbia Animal Science Departmental Report. p. 183-184.

McFadin-Buff, E. L., **N. C. Whitley**, and D. H. Keisler. 1999. Effect of insulin on feed intake and conception rate in ewe lambs. University of Missouri-Columbia Animal Science Departmental Report. p.162-165.

Whitley, N. C., C. R. Barb, R. R. Kraeling, G. B. Rampacek, J. A. Carroll and D. H. Keisler. 1999. Intra-cerebralventricular urocortin administration decreases feed intake in pigs. Presented at University of Missouri-CAFNR Research Expo IX in poster form.

Cox, N. and **N. C. Whitley**. 1998. Insulin can have positive effects on swine reproduction. Miss. Agri. For. Exp. St. Highlights, Winter 1998. p. 19.

Whitley, N. C., C. R. Barb, R. V. Utley, J. M. Popwell, R. R. Kraeling and G. B. Rampacek. 1995. Influence of stage of the estrous cycle on insulin-like growth factor-I modulation of luteinizing hormone secretion in the gilt. UGA College Agr. Environ. Sci., Anim. Dairy Sci. Dept. 1995 Annual Report. p. 287-290.

Popwell, J. M., R. R. Kraeling, M. J. Estienne, C. R. Barb, **N. C. Whitley**, R. V. Utley, and G. B. Rampacek. 1995. The role of excitatory amino acids in pulsatile secretion of luteinizing hormone in gilts and barrows. UGA CAES, ADS Dept. 1995 p. 291-296.

GENBANK SUBMISSIONS

Capra hircus interferon-tau mRNA, complete cds. (**10 sequences**) Ealy A.D., Wagner S.K., Sheils A.E., **Whitley N.C.**, Kiesling D.O., Johnson S.E. and Barbato G.F. Submitted July 31, 2003. Accession numbers AY357327 to AY357336.

Equus Caballus leptin receptor mRNA, partial cds. Dodds, A.C., **N. C. Whitley**, and D. H. Keisler. Submitted March 31, 1999. Accession number AF139663.

Equus Caballus leptin mRNA, partial cds. Dodds, A. C., J. A. Daniel, **N. C. Whitley** and D. H. Keisler. Submitted August 20, 1999. Accession number AF179275.

MISCELLANEOUS PRESENTATIONS /DISCUSSION FORUMS

Being a woman in Agriculture, Small Farms Conference, UMES, 2007

Small Ruminant Genetics Conference. Recording keeping – what we use at UMES; ultrasound assistance. October 2004

Feeding throughout the life cycle. Regional Sheep and Goat Nutrition Conference. Two meetings held in VA and MD. Nov/Dec 2002.

Efforts to increase the reproductive efficiency of meat goats. Garrett County Community College Goat Conference, Show and Sale. May 31, 2002.

“Breed all about it: Popular goat breeds”. Maryland Meat Goat Symposium. March, 2002.

“Character counts especially when showing animals. Learn to be a blue ribbon showman.” Winterfare teaching/extension program for 4-H. February, 2002.

“Conducting Field Research on Farms, Nurseries and Greenhouses”. 3-Day workshop hosted by Maryland Cooperative Extension as part of a SARE funded Professional Development grant. Invited presentation: “Conducting Animal Research on Commercial Farms, Getting all the Pieces in Place”. August, 2001.

University of Maryland Eastern Shore Meat Goat Research Program. Small Ruminant Research Coordination/Exchange meeting. Southern Section ASAS. January, 2001.

Also invited to participate in the discussion forum, 2002.

University of Maryland Eastern Shore and Maryland Cooperative Extension Meat Goat Program. Presented at Lower Shore Goat Producer’s Association meeting. January, 2001.

University of Maryland Eastern Shore and Maryland Cooperative Extension Meat Goat Program. Presented at the 2001 Maryland (MCE) Goat Symposium. Spring, 2001.

Swine Production, Past and Present. Tidewater Farm Club meeting, April, 2000.

Appetite regulators, growth and reproduction. Mississippi State University, Starkville, MS. August, 1999.