

**Eric Risch, Ph.D**  
**Curriculum Vitae**

**Name:** Dr. Eric Risch

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**Education:**

- Ph.D., Agricultural Engineering, Ohio State University, Columbus, Ohio 1982
- M.S., Bio-Resource Engineering, University of British Columbia, Vancouver, Canada 1977
- B.S., Agricultural Engineering, University of Guelph, Guelph, Canada 1974

**Teaching Experience:**

- Present: Associate Professor, Agriculture Engineering and Research Scientist, Prairie View A&M University, Prairie View, Texas USA.
- Teaching duties have included upgrading Agriculture undergraduate curriculum at PVAMU.
- Other Duties: Teaching undergraduate courses in: Computer Applications in Agriculture, Agricultural Structures, Introductory Agricultural Engineering, Environmental Engineering, Drainage Engineering, Farm Engines and Tractors, Elementary Surveying, and Computer Programming in BASIC.

**Professional, Technical, and Work-Related Experience and Skills**

- Research: Over the past 10 years Dr. Risch has been a member of a team of scientists working on: A) Modeling and Rheological Characterization of Goat Meat and Milk products; B) Developing a knowledge-based Expert System for Sheep and Goat Production; C) Developing a Decision Support System for Meat Goat Production; D) Determining Sensory; Chemical and Textural Characteristics of Cooked Goat-based Sausages; and E) Determining Textural Characteristics of Caprine (Goat) Sausages - A Comparison of Instrumental and Sensory Evaluations.

**Professional Achievements and Publications**

**•Grants:**

- (a) **Decision Support System for Meat Goat Production -- I**, USDA -- Capacity Building Grants Program. 1993-1996. Status: **Funded for \$286,000.**
- (b) **Computer Modeling of a Comprehensive Meat Goat Enterprise System.** Competitive Grant Program 1996-1999. Status: **Funded for \$151,000**
- (c) **Decision Support System for Meat Goat Production -- II**, USDA -- Capacity Building Grants Program. 1997-2000. Status: **Funded for \$270,000.**
- (d) **Advanced Networks: Advancing Agricultural Science via the Information Superhighway - Phase Two.** USDA Capacity Building Grants Program. 1999 – 2001. Status: **Funded for \$200,000.**
- (e) **Establishment of a Bio-Environmental Geographic Information System (Bio-EGIS) at PVAMU.** USDA Capacity Building Grants Program. 2001 - 2003. Status: **Funded for \$123,000.**
- (f) **Establishment of a Bio-Environmental Geographic Information System (Bio-EGIS) at PVAMU. - Phase II.** USDA Capacity Building Grants Program. 2003 - 2006. Status: **Funded for \$198,645.**
- (g) **Goat Conference at PVAMU. Oct 2002.** USDA Partners Program. Co-Pi with Jackson M. Dzakuma and Barbara Johnson. Status: **Funded for \$12,500.**
- (i) **Building Capacity in Food Science Studies at PVAMU.** CBG Proposal. 2006 – 2009. Status:

**Funded for \$299,691.**

•**Select Publications:** (Papers and Abstracts)

- Risch, E.** and J.M. Dzakuma. 1997. Textural Characteristics of Caprine (goat) Sausages – A Comparison of Instrumental and Sensory Evaluations. Proc. Eng. & Arch. Symp. College of Engineering and Architecture. Prairie View. Feb. 6-7, 1997, Pp 143-148.
- Mora-Gutierrez, A., R. Gomez, **E. Risch**, and F.L. Richards, 1999. Texture and Protein-Protein Interactions of Heat-formed Fish Myofibrils/Whey Proteins Concentrate Gels. Abstract. IFT Annual Meeting, July 24-28, 1999 in Chicago, Il.
- Dzakuma, J.M., **E. Risch**, P.M. Johnson and B.M. Johnson. 1998. Meat Goat Breeding at the International Dairy Goat Research Center, Revisited. Proc. 6<sup>th</sup> World Congress Genet. Appl. Livest. Prod. Armidale. NWS, Australia. January 11-16, 1998. Vol. 24:125-128.
- Johnson, P.M., J.M. Dzakuma and **E. Risch**. 1998. Promoting Caprine (Goat) Meat in the United States. Proc. Joint CFCS & JSAS Conference. Montego Bay, Jamaica, July 12-18, 1998.
- Dzakuma, J.M., **E. Risch** and P.M. Johnson. 2000. Goat Growth Model: Responses under Different Nutritional Levels. 7<sup>th</sup> International Conference on Goats, pp 826. France. May 14-21, 2000.
- Smith, C.O., J.M. Dzakuma, **E. Risch** and P.M. Johnson. 2000. Intake, Growth and Body Composition Changes in Spanish and Tennessee Stiff-Legged Goats. J. Anim. Sci. 78(Suppl. 1):127.
- Beckford, N.C., J.M. Dzakuma, **E. Risch**, C.O. Smith, P.M. Johnson and L.C. Nuti. 2001. Comparison of Goats Raised Intensively Versus Pasture Raised. J. Anim. Sci. (in press).
- Smith, C.O., J.M. Dzakuma, **E. Risch**, N. Beckford and P.M. Johnson. 2001. Comparison of Carcass Component Weights of Spanish and Tennessee Stiff-Legged Goats at Different Ages. ADSA-ASA Abstracts, Southern Branch. January 27-30, 2001 Fort Worth, TX pp. 13.
- Dzakuma, J.M., **E. Risch**, Smith, C.O., N. Beckford and P.M. Johnson. 2001. Comparison of Carcass Component Weights of Spanish and Tennessee Stiff-Legged Goats at Different Ages. ADSA-ASA Abstracts, Southern Branch. January 27-30, 2001 Fort Worth, TX pp. 13.
- Risch, E.**, J.M. Dzakuma, P.M. Johnson, C.O. Smith and H.D. Blackburn. 2001. Goat Growth as a Function of Feed Intake. Proc 6<sup>th</sup> International Livest. Environment Symp. ASAE. Louisville, KY. May 21-23, 2001, Pp 103-118.
- Risch, E.**, J.M. Dzakuma, P.M. Johnson, L. Nuti and H.D. Blackburn. 2001. Rheological Characterization of Goat Meat, J. Anim. Sci.
- Risch, E.** and Dzakuma, J.M., 2002. Textural Characteristics of Chevron and Chevron Products - A Comparison of Instrumental and Sensory Evaluations. Proc. Scientific Conf. on Goats. Prairie View, Texas. Oct 28, 2002.
- Dzakuma, J.M. and **E. Risch**, 2002. Feed Intake and Efficiency Measurements in Goats. J. Anim. Sci. 80 (Suppl. 1)/J. Dairy Sci. Vol. 85, Suppl. 1. (192).
- Dzakuma, J.M., **E. Risch**, N.C. Beckford, C.O. Smith, W.M. Thomas, P.M. Johnson, and S.E. Kom. 2002. Goat Production in Relation to Nutrition and Environmental Conditions. Proc. Scientific Conf. on Goats. Prairie View, Texas. Oct 28, 2002.
- Risch, E.**, J.M. Dzakuma, P.M. Johnson and N.C. Beckford. 2003. Development of a Goat Growth Model. Proc. ARD 13<sup>th</sup> Biennial Research Symposium. Atlanta, GA. March 29 - April 2, 2003.
- Mora-Gutierrez, A, A.J. Simmonds and **E. Risch**, 2004. Use of Bovine and Caprine Caseinophosphopeptides to Improve Gel Functionality of Pollock Surimi. IFT Annual Meeting. July 13-16, 2004. Las Vegas, USA.
- Dzakuma, J.M., **E. Risch**, C.O. Smith and H.D. Blackburn, 2004. Level of feed intake on performance of two goat genotypes. South African Journal of Animal Science 2004, 34 (Supplement 1).
- Risch, E.** 2006. A Comparative Study of the Rheology of Ice Cream, Yogurt and Cream Cheese. ARD Biennial Research Symposium. Atlanta, GA April 1 - 5, 2007.
- Risch, E.**, J. M. Dzakuma, P.M. Johnson and A.S. Hubbard. 2009. Modeling Goat Growth as a Function of Feed Intake. ARD Biennial Research Symposium Atlanta, GA March 28 - April 1, 2009.