

CURRICULA VITAE

DATE: November 10, 2005

NAME: DREW ALAN VERMEIRE, Ph.D., PAS, Dipl. ACAN

ADDRESS: 21 Normandy Drive
Lake St. Louis, Missouri 63367
Phone: (636) 625-1884 Fax: (636) 625-1747 e-mail: veaux@earthlink.net

EDUCATION:

- The Ohio State University - Ph.D. in Animal Nutrition, March 1991 (Ruminant Nutrition)
- The Ohio State University - M.S. in Animal Science, March 1985 (Animal Nutrition)
- The Ohio State University - B.S. in Agriculture, June 1981 (Animal Science)
- Grove City College, Grove City, PA. September 1977 to June 1978 (Biology)

EMPLOYMENT:

- **Nouriche Nutrition Ltd. & BABY DOLL Nutrition, Ltd. Lake St. Louis, MO** -- October, 1995 to Present. President and Consulting Nutritionist. Develop and market feed products for veal, beef cattle and other species of domestic animals. Conduct training/selling seminars as well as design, conduct, analyze research for clients on contractual basis. Consult with feedlots and calf ranches to improve profitability of operation. Work with marketing consultant to develop advertising, media plans, package designs and selling materials.
- **Manna Pro Corporation, St. Louis, MO** -- July, 1994 to October, 1995. Nutritionist. Responsible for Pet Foods, Horse Feeds and other specialty feeds. Worked closely with National Accounts Group in design and sales of feed products. Conducted numerous Equine Nutritional Seminars nationwide in support of sales force. Performed technical sales training with feed mill sales force and with international partners. Responsible for uniformity and accuracy of formulation and feed tags throughout company. Traveled extensively in support of sales team, making numerous presentations to dealers, feed mills, nutritionists and farm owners. Was team leader to revise and implement new retail UPC Code system.
- **Baby Doll Nutrition/ImmuTech, Cincinnati, OH** -- 1991 to 1994. Sole Proprietor, Nutritional Consultant. Designed and developed programs and products for feeding beef cattle, dairy cattle, and Holstein beef calves. Consulted with 4000-15,000 head feed yards in US and Canada to improve profitability. Responsible for total diet and supplement nutrient specifications, feeding program and cattle management programs. Wrote and produced brochures, newsletters, technical bulletins and research updates, technical training and support materials. Frequently made farm visits and sales calls with feed salesmen for retail Holstein beef program. Worked with several packing companies to reduce liver abscess incidence.
- **Allegro Feed Company, Inc., Warsaw, IN** - 1990 to 1991. President and Ruminant Nutritionist. Developed and marketed feed program for Holstein beef calves from bucket to butcher. Conducted research studies to improve performance of calves. Consulted with beef feedlots, beef producers, dairy operations, and beef packers.
- **Indiana Farm Bureau Cooperative Association, Inc., Indianapolis, IN** - 1988 to 1989. Nutritionist, Beef, Sheep, and Horse Specialist. Created new feed programs, selling materials, and education materials for feed sales specialists. Maintained formulas for feed products. Made numerous farm calls with sales specialists, represented Indiana Farm Bureau Cooperative Association on Cooperative Research Farms beef research board.
- **The Ohio State University, Columbus, OH** - Graduate Research Associate, Graduate Teaching Associate, Ohio Cooperative Extension Service - September 1984 to July 1988 Taught undergraduate nutrition courses, was TA for sheep production class and conducted several research studies in addition to Ph.D. research to solve industry problems. Made

presentations at numerous county extension and state meetings. Was resource person for producers throughout the state. Developed several computer programs to assist sheep producers manage their operations more efficiently.

- **Krebs Dairy, Grove City, OH** - Farm worker on 3-farm dairy operation - March 1986 to March 1987. Milked cows, fed calves, cows, steers. Operated equipment during planting, haying and harvest.
- **JC Penney Co., Columbus, Ohio** - Commission Selling Specialist - May 1982 to February 1986. Sold men's clothing, sporting goods, TVs, stereos, and shoes. Was responsible for managing associates and several shoe inventories. Resolved customer complaints. Worked to pay tuition.
- **Perdue Farms, Inc. Salisbury, MD** - Manager Trainee Intern, Poultry Processing and Yield Efficiency. - June 1980 to September 1980. Was responsible directly to plant manager. Monitored yield and efficiency of several facets of plant that processed 21,000 broilers per hour. Improved communication within plant by setting goals for yield and helping line personnel understand goals and reasons for goals.

PROFESSIONAL MEMBERSHIPS:

Diplomate - American College of Animal Nutrition, American Registry of Professional Animal Scientists, 2001 to present.

Member - American Society of Animal Science, American Dairy Science Association, American Registry of Professional Animal Scientists, Veal USA, American Veal Association, National Cattlemen's Beef Association, Missouri Cattlemen's Association, St. Charles County Cattlemen's Association, US Targhee Sheep Association, Honorable Order of Kentucky Colonels.

Chairman – International Committee for Veal Welfare

Past Member - Indiana Sheep Breeders Assoc. (Board of Directors), Ohio Sheep Improvement Association, American Sheep Industry Association, Ohio Cattlemen's Association, Texas Cattle Feeders Association, West Virginia Cattlemen's Association, Brown County (Ohio) Cattlemen's Association.

PUBLICATIONS:

- Chester-Jones, Hugh, Alfredo DiCostanzo, Tom Peters, Herb Rebhan, Dan Schaefer, and Drew Vermeire. 1998. Now There's Dairy Steers on the Farm: What Do You Feed Them? Proc. Tri-State Dairy Nutrition Conference. The Ohio State Univ, Purdue Univ., and Mich St Univ., Ft. Wayne, IN
- Boyles, S.R., M.L. Day, G.R. Hibbert, and D. Vermeire. 1995. Short-term creep feeding of large frame calves. Ohio Beef Cattle Research & Industry Report, The Ohio State University, Animal Science Departmental Series 95-1, p. 36-38
- Malcolm-Callis, Kathryn J., Glenn C. Duff, Stacey A. Gunter, Beth B. Kegley, and Drew A. Vermeire. 2000. Effects of supplemental zinc level and source on performance, carcass characteristics, and serum concentrations in finishing beef steers. J. Anim. Sci. 78:2801-2808
- Scott, T., T. Tompkins, D.A. Vermeire, and N. Keith. 1999. Effect of milk replacer protein source on heifer performance. J. Dairy Sci. Suppl. 1. (Abst)
- Vermeire, Drew A. 1985. In Vitro and In Vivo Evaluation of Municipal Tree Leaves as a Feedstuff for Sheep. M.S. Thesis -The Ohio State University, Columbus.
- Vermeire, Drew A. 1991. Effect of Cobalt and/or Vitamin B₁₂ on Performance and Metabolic Characteristics of Lambs Fed Diets With or Without Ionophores. Ph.D. Dissertation - The Ohio State University, Columbus.
- Vermeire, Drew A. 1991. Management of Holstein Calves from Birth to 20 Weeks. Proc. Holstein Beef Prod. Symp. Harrisburg, PA Feb 13-15, NRAES, Cooperative Extension, Ithaca NY.

- Vermeire, Drew A., 1999. When to get into the bull market. Proc. 3rd Annual PDHGA National Conference, Bloomington, MN. Professional Dairy Heifer Growers Association, Savoy, IL.
- Vermeire, Drew A., 2005. Veal Welfare Initiatives. Presented at Animal Agriculture Alliance Stakeholders Summit: "Animal Welfare Initiatives, Needs, Regulation and Communication: Building on the Past, Preparing for the Future," Arlington, VA March 21-23, 2005
- Vermeire, Drew A., 2005. Protein and Energy Nutrition of Neonatal Calves. Proc "Managing and Marketing Quality Holstein Steers" Conference, Rochester MN Nov 2-3, 2005
- Vermeire, D.A., S.R. Baertsche and J.H. Cline. 1986. Effect of lasalocid on the protein requirements of growing lambs. Sheep Industry Development Research Digest Vol. 3 (peer reviewed)
- Vermeire, D.A., S.R. Baertsche and J.H. Cline. 1986. Effect of lasalocid on the protein requirements of growing lambs. (Abst. 134) Am. Soc. Anim. Sci. Midwestern Section, Des Moines, Iowa.
- Vermeire, D.A., J.H. Cline and S.R. Baertsche. 1990. Effect of cobalt on feedlot performance and propionate clearance of lambs with or without ionophores. (Abst. 689) J. Anim. Sci. 68 (Supp. 1):520
- Vermeire, D.A., W.J. Tyznik and J.H. Cline. 1985. Evaluating tree leaves as a feedstuff for sheep. Ohio Report 70:80 (peer reviewed)

PUBLICATIONS-Popular:

- Vermeire, Drew A., 1996. Looking beyond price when selecting a zinc source: creating a model of bioavailability. Feed Management. Vol. 47 Number 12, p 27.
- Vermeire, Drew A., and Timothy D. Woodward. 1988. Current research utilizing Bovatec™ in ewe and lamb finishing diets. The Shepherd Magazine, October 1988

PUBLICATIONS - Authored Anonymously

- Water for Veal Calves: Myth vs. Facts. 1997. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- Cold Weather Ventilation & Humidity Management For Improved Respiratory Health. 1998. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- Glossary - Ventilation, Air Conditioning, Cooling & Heating. 1998. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- Ventilation - Goals & Guidelines For Veal Barns. 1998. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- Implant Question & Answer. 1998. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- Using Records To Improve Performance & Meticulously Monitor Medications . 1998. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- The Veterinarian's Role in Veal Production. 1998. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- Here Come The Calves! 10 Tips For Arrival Day. 1999. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- Surviving Scours - Feed Plenty of Milk, Plenty of Electrolytes. 1999. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- Basics of Blood. 2000. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA

- The Startling Costs Of Veal Quality Defects. \$15,692,000 in Losses...\$20.92 Per Veal Calf Produced, On Average. 2000. Veal Quality Assurance Technical Bulletin, American Veal Association, Middleton, PA
- Special Care: The U.S. Veal Industry. 2001. Veal USA, Canton, PA

RESEARCH- Not published

- Croker, Daniel S., Drew A. Vermeire, and Jack H. Cline. 1991. Effect of hydration treatments on survivability and performance of neonatal Holstein calves. Research Trial AFC D/B-C 91-1 (Croker MS Thesis, California Polytechnic Institute, San Luis Obispo, California)
- Vermeire, Drew A. 1991. Effect of implants on Holstein calf performance from birth to 400 lbs. Allegro Feed Co. Inc. Research trial AFC D/B-C 91-2.
- Vermeire, Drew A. 1996. Effect of blood-derived immunoglobulin product on neonatal Holstein calf performance. BABY DOLL Nutrition Ltd. Research trial 96DBRR1
- Vermeire, Drew A. 1996. Effect of red blood cell protein-based milk replacer on performance of neonatal Holstein calves. BABY DOLL Nutrition Ltd. Research trial 96DBRR2
- Vermeire, Drew A. 1997. Effect of milk replacer feeding rate on performance of neonatal Holstein calves. BABY DOLL Nutrition Ltd. Research trial 97DBK1
- Vermeire, Drew A. 1998. Effect of various implants on performance of special-fed veal calves. American Veal Association Implant Initiative.
- Vermeire, Drew A. 1998. Effect of milk replacer protein source on performance of neonatal Holstein heifer calves. BABY DOLL Nutrition Ltd. Research trial 98DBMVL1
- Vermeire, Drew A., Jack H. Cline, and Dale Bryant. 1990. Effect of fermentation byproduct and brewery byproduct on performance of calves from birth to 20 weeks of age. Allegro Feed Company, Inc. Research Trial AFC D/B-C 90-1 TM
- Vermeire, D.A., J.H. Cline, S.R. Baertsche and J.C. Clay. 1987. Effect of chlortetracycline or lasalocid on feedlot performance and carcass characteristics of implanted or non-implanted lambs.
- Vermeire, D.A., and W.R. Henning. 2002. Relationship of live animal performance to meat color and carcass characteristics of milk-fed veal calves. J Dairy Sci 80 Suppl 1 (Abstract 513)
- Vermeire, D.A. And W.R. Henning. 2002. Relationship of blood chemistry to meat color of milk-fed veal calves. J. Dairy Sci. 80: Suppl 1 (Abstract 514)
- Vermeire, D.A. 2003. Effect of synthetic colostrum, transfer factor, and/or lixiviated fermentation product on performance of milk-fed veal calves. Nouriche Nutrition Ltd. Research trial V08 QCO 03.
- Vermeire, D.A. 2003. Effect of protein composition on performance of milk-fed veal calves. Nouriche Nutrition Ltd. Research trial V12 LPQ 03.
- Vermeire, D.A. 2004. Development of USDA Certification of Milk-Fed Veal for VEAL USA. Veal USA submission.

PRESENTATIONS:

- Vermeire, Drew A. 1985. Current research program regarding the effect of Bovatec™ on protein requirements of growing lambs. Presentation at Ohio Sheep Day.
- Vermeire, Drew A. 1986. Current research program regarding the effect of Bovatec™ on protein requirements of growing lambs, and research involving the effect of cobalt and/or vitamin B₁₂ on metabolic and feedlot parameters in growing lambs with or without ionophores. Presentation at Ohio Sheep Day.
- Vermeire, Drew A. 1991. Management of Holstein calves from birth to 20 weeks. Holstein Beef Production National Symposium. Harrisburg, PA Feb. 13-15, 1991

- Vermeire, Drew A. 1993. Holstein Beef Production II - Management from Bucket to Butcher. Ohio Veterinary Medical Association Convention Feb 18-21, Columbus, Ohio p 159-162.
- Vermeire, Drew A. 1996. Calf Scours and Oral Rehydration Therapy: Principles and Practices. Presentation for Calva Products, Inc. sales meeting, Reno, NV.
- Vermeire, Drew A. 1999. When to get into the bull market. 3rd Annual Professional Dairy Heifer Growers Association National Conference, Bloomington, MN
- Vermeire, Drew A., 2005. Protein and Energy Nutrition of the Neonatal Calf. Proc. *Managing and Marketing Quality Holstein Steers Symposium*. Nov 2-3, 2005, Rochester, MN
- Vermeire, Drew A. and Timothy D. Woodward. 1988. Current research utilizing Bovatec™ in ewe and lamb finishing diets. Presentation at Ohio Sheep Day.

STATE EXTENSION PUBLICATIONS:

- Vermeire, Drew A. 1986. Ohio Sheep Management Calendar Program. Ohio Cooperative Extension Service Computer Programs. OCES, The Ohio State University, Columbus.
- Vermeire, Drew A. Ohio Sheep Ration Formulation Program. Ohio Cooperative Extension Service Computer Programs. OCES, The Ohio State University, Columbus.

AWARDS:

- E.W. Ingram Foundation Meat Science Scholarship Award. 1981.
- Ohio Cooperative Extension Service Teaching Associate, 1984-85, 1985-86.
- Ohio Cooperative Extension Service Research Associate, 1986-87, 1987-88.

UNDERGRADUATE MEMBERSHIPS:

- OSU Saddle and Sirloin Club
- Conaway House Student Government
- Edward S. (Beanie) Drake Scholarship Delegate
- OSU SCUBA Diving Club
- Pi Sigma Epsilon Professional Business Fraternity (charter member of OSU chapter)

REFERENCES:

Dr. Hugh Chester-Jones
Professor of Animal Science
University of Minnesota - Southern Experiment Station
35838 120th Street
Waseca, MN 56093
PH: 507.837.5618
FAX: 507.835.3622
e-mail: chest001@tc.umn.edu

Dr. Jack H. Cline -- Ph.D. Advisor
Professor Emeritus of Animal Nutrition
The Ohio State University
23927 Buena Vista Road
Rockbridge, Ohio 43149
PH: 740.385.5859

Mr. Robert Cochrell
Beth El Veal, Inc.
2013 W. Britton Rd.
Burbank, OH 44214
PH: 330.624.6281
FAX: 330.624.6281
e-mail: bethelveal@juno.com