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## **EDUCATION**

- 1/07-2/08 **University of Pennsylvania**, School of Medicine,  
Certificate in Clinical Research
- 9/91-5/95 **University of Pennsylvania**, School of Veterinary Medicine, **V.M.D.**
- 6/90-5/91 **West Chester University**, Post-Baccalaureate medical program
- 9/80-5/84 **University of New Hampshire**, College of Life Science and Agriculture. **B.S.**  
Major: Soil Science

## **EXPERIENCE**

### 1/11 – present **VETERINARY PRACTITIONER & CONSULTANT**

- ▶ Available for farm calls for medical treatment of certified organic cattle in PA, applying the non-antibiotic treatment of infectious disease and the non-hormonal treatment of infertility, using botanical derivatives, biological immuno-modulation, acupuncture, low dose therapeutics and hands-on physical therapy as needed.
- ▶ Available for barn instruction to farmers and presentations to veterinary and farmer groups across the US and Canada.
- ▶ Available for clinical and field research in organic livestock with interested research groups.
- ▶ Available for pasture consulting to comply with new organic pasture rule.

### 1/10 – 12/10 **VETERINARY CONSULTANT - 1 year away from full-time practice due to health issue (fully resolved)**

- ▶ Available to certified organic and biologically oriented dairy farmers to answer specific questions, alternative treatments allowable for organic livestock use, barn consultations, small group barn instruction, regulatory interpretation, animal welfare guidance, formulate holistic prevention programs based on soil biology, crop quality and pasture management.

### 6/95 – 12/09 **VETERINARY PRACTITIONER: Lancaster County, PA**

- ▶ Responsible for all emergency, routine and preventive medicine, surgery, reproduction and obstetrics on 85 +/- certified organic, grazing family dairy farms and 10 traditional farms that graze.
- ▶ Integrative medicine techniques applied daily: botanical derivatives, biological immuno-modulation, acupuncture, low dose therapeutics and conventional approaches as each case requires.

- ▶ Successful completion of 2005 SARE grant project ONE05-042 to analyze trends and associated management on organic farms using Dairy Herd Improvement (DHIA) records in southeastern PA.
- ▶ Developer and inventor of immuno-modulating product from organic dairy cows to be used as a source of antibodies in place of antibiotics on organic farms. Also developed highly potent botanical medicinals against systemic infections as well as reproductive infertility.

Summer1993 **RESEARCH: Bovine Immunology.** School of Veterinary Medicine, Utrecht, the Netherlands. (See Publications)

- ▶ Conduct field observations of inflammatory conditions, draw bovine blood samples, gather production data and interview Dutch dairy farmers for government funded research regarding environmental farming methods.
- ▶ Determine absolute values of bovine Serum Amyloid A, Haptoglobin C via ELISA; quantify IgM and IgG using HPLC; analyze leukograms.
- ▶ Statistically measure the strength of veterinary observations of lactating dairy cows with and without inflammatory processes in relation to acute phase protein levels across herd management systems (grazing and confinement).

Summer1992 **RESEARCH: Dairy Herd Nutrition.** School of Veterinary Medicine, University of Pennsylvania/ Seven Stars Farm, Kimberton, PA.

- ▶ Set-up, document and analyze the management and economic efficiency of an intensive, rotational grazing system for a 60 cow dairy herd.
- ▶ Evaluate nutritional quality and dry matter quantity within 40 grazed paddocks.
- ▶ Integrate knowledge of inherent soil fertility and erodibility with planting of appropriate pasture species for optimal interaction between cattle and land.

8/90-8/91 **RESEARCH: Bovine Immunogenetics.** School of Veterinary Medicine, University of Pennsylvania, New Bolton Center.

- ▶ Prepare bovine pedigrees (1968-1990) to analyze for possible vertical transmission of Johne's disease (*M. paratuberculosis*)
- ▶ Evaluate environmental factors that affect the viability of the *M. paratuberculosis* to persist in the soil and water on infected farms.
- ▶ Isolate, culture, stimulate bovine lymphocytes and harvest subsequent IL-2 for assay with MTT.
- ▶ Sterile technique, micro pipetting, cell counting, immuno-diffusion assays, media preparation for tissue and fecal culture.

3/88-7/90 **DAIRY HERDSMAN:** Seven Stars Farm, Kimberton, PA.

- ▶ Daily health care, feeding and milking of a 60 cow Jersey and Guernsey herd.
- ▶ Administer vaccinations, vitamins, probiotics, antibiotics and natural therapies for treatment of mastitis, milk fever and peri-partum disorders.
- ▶ Operate all tractors in conservation tillage for 200 acres of organic barley, oats, wheat, soybeans, corn and mixed hays; compost used for soil vitality.

- 5/84-2/88      **SOIL SCIENTIST:** New Hampshire.
- ▶ Classify and map soil (USDA SCS method) for landowners in towns with land-use regulations based on soil-type and wetland setbacks in order to protect surface water supplies.
  - ▶ Evaluate soil test pits for explicit descriptions of soil color, texture, structure, consistence, slope, impervious layers and seasonal high water table.
- 3/83-5/84      **SOIL CONSERVATION AIDE:** USDA Soil Conservation Service, Dover, NH.
- ▶ Survey land elevations for layout of surface and subsurface drainage, manure storage facilities, ponds and woodland access roads.
  - ▶ Transpose information from field notes to aerial photos; Prepare drafting designs and topographic maps for tile drainage and pond placement on livestock and tree farms.
  - ▶ Calculate rates of erosion and manipulate cropping and management factors to arrive at tolerable soil loss; assist in formulation of farm conservation plans.

## **PUBLICATIONS**

### **BOOKS**

Hubert J. Karreman. **The Barn Guide to Treating Dairy Cows Naturally**  
Acres USA, Austin, TX, 2011. (Soft cover, 191 pgs)

Hubert J. Karreman. **Treating Dairy Cows Naturally: Thoughts and Strategies** 2<sup>nd</sup> ed. Acres USA, Austin, TX, 2007 (Hardcover, 412 pgs.).

### **INVITED CHAPTER ENTRIES**

**Current Veterinary Therapy, Food Animal Practice** (Anderson and Rings, eds.) Elsevier, 2008

**Veterinary Herbal Medicine** (Wynn and Fougere, eds.) Mosby, 2007.

**Organic Farming in a Global Perspective** (Halberg, Alroe, Knudsen and Kristensen, eds.) CABI, 2006.

**Alternative Livestock Health Practices** (Morrison and Kielty, eds.) Blackwell Scientific, 2005.

### **JOURNAL ARTICLES**

Karreman, H J. (2010) **Disease control on organic and natural cattle operations.** Animal Health Research Reviews 10(2); 121–124.

Karreman, Wentink, Wensing (2000). **Using Serum Amyloid A to Screen Dairy Cows for Sub-clinical Inflammation.** Veterinary Quarterly; 22: 175-8.

Graczyk, Evans, Shiff, Karreman, Patz. (2000). **Environmental and**

**Geographical Factors Contributing to Watershed Contamination with *Cryptosporidium parvum* Oocysts.** Environmental Research; 82, 263-271.

**POSTERS & ABSTRACTS PRESENTED AT PROFESSIONAL SOCIETIES & POSTERS ABOUT PHYTO-MAST™**

P. Pinedo, H. Karreman, H. Bothe, C. Risco, J. Velez, **Efficacy of a Botanical Preparation for the Intramammary Treatment of Clinical Mastitis on an Organic Dairy Farm.** American Association of Bovine Practitioners, Albuquerque, NM, 2010.

K. A. E. Mullen, K. L. Anderson, S. P. Washburn **Effectiveness of an herbal remedy compared to control or traditional therapy in dry off treatments.** North Carolina State University College of Agriculture and Life sciences & College of Veterinary Medicine. Abstract #39570 American Dairy Science Association 2010.

C.S. McPhee, K.L. Anderson, R.E. Baynes **Finding Phyto-Mast: Determining Withdrawal Time of Phytoceutical Mastitis Treatment in Lactating Dairy Goats.** North Carolina State University College of Veterinary Medicine & FARAD, Burroughs Wellcome Fund summer student research. Presented at American Association of Bovine Practitioners, Albuquerque, NM, 2010.

Griswold, K., H. Karreman, S. Dinh, and J. High. 2008. **Effects of nutrition and feeding management on production, health and culling by organically-managed dairy herds in Southeastern Pennsylvania.** JDS 91(E-Suppl.1):134.  
Griswold, K., H. Karreman, and J. High. 2008. **Effect of calving scheme, seasonal vs. year-round, on production, reproductive performance, and culling by organically-managed dairy herds in Southeastern Pennsylvania.** J. Dairy Sci. 91(E-Suppl. 1):469.

Griswold, K., H. Karreman, and J. Mylin. 2007. **Best management practices to improve milk quality and udder health in organically-managed dairy herds in Southeastern Pennsylvania.** J. Dairy Sci. 90(Suppl. 1):164.

Griswold, K., H. Karreman, and J. Mylin. 2007. **Effect of management type, conventional versus organic, on production, health and culling in Southeastern Pennsylvania dairy herds.** J. Dairy Sci. 90(Suppl. 1):582.

**JOURNAL ARTICLES (popular press)**

Griswold, K. E. and Karreman, H J. **Make the Most of Your Organic Milk Quality Tool Box** (Hoard's Dairyman, 2008)

Karreman H J. **Can Cows on Organic Dairy Farms Compete?** (Hoard's Dairyman, 2003). WD. Hoard & Sons, Co. Vol. 148, No. 12 p.453.

Many articles in the organic dairy industry popular press (NODPA, GRAZE, etc).

## **UPCOMING PRESENTATIONS AT CONFERENCES & MEETINGS**

**10<sup>th</sup> Annual International Herbal Symposium**, Wheaton College, Norton, MA  
(June 24-26, 2011)

## **INVITED PRESENTATIONS AT CONFERENCES & PRINTED PROCEEDINGS**

**American Association of Bovine Practitioners (Albuquerque, NM)** (Aug 2010)

**Bovine Respiratory Disease Symposium (Colorado Springs, CO)** (Aug 2009)

**Western Veterinary Conference (Las Vegas Nevada)** (Feb 2009)

**Doalnara Certified Organic Korea (South Korea)** (Feb 2009)

**Wisconsin Department of Agriculture (Madison)** (Feb & Dec 2008)

**Understanding Organics (Auburn, NY)** (Oct 2008)

**Boundary Waters Veterinary Conference (Ely, MN)** (July 2008)

**Maryland Veterinary Medical Association (Frederick)** (March 2008)

**Northeast Pennsylvania Grazing Conference** (March 2008)

**Organic Research Symposium, (La Crosse)** (Feb 2008)

**Vermont Veterinary Medical Association (Burlington)** (June 2007)

**Minnesota Dairy Health Conference (Minneapolis)** (May 2007)

**16th Annual Northeast Dairy Production Medicine Symposium (Syracuse)**  
(March 2007)

**American Holistic Veterinary Medical Association (Louisville)** (Oct 2006)

**American Veterinary Medical Association (Honolulu)** (July 2006)

**International Federation of Organic Agricultural Movements (Minneapolis)**  
(Aug 2006)

**University of New Hampshire (Durham)** (Sept 2004, March 2007, April 2008)

**Maine Veterinary Medical Association (Waterville)** (March 2006)

**New York State Veterinary Medical Society (West Point)** (Oct 2005)

## **INVITED SEMINARS FOR VETERINARIANS AND STUDENTS**

**University of Minnesota / Morris (Rochester, MN)** (Feb 2011)

**Vermont Technical College (Randolph, VT)** (Jan 2011)

**University of Guelph, Animal Welfare Panel, (Guelph, Ontario)** (Oct 2010)

**University of Utrecht, School of Veterinary Medicine, the Netherlands** (Dec 2009)

**University of Calgary School of Veterinary Medicine, Alberta** (Feb 2009)

**University of Edmonton, Dept of Animal Science, Alberta (Feb 2009)**  
**FDA CVM Staff College (Rockville, MD) (June 2008)**  
**University of Guelph, Campus d'Alfred (Alfred) (April 2008)**  
**University of Guelph College of Veterinary Medicine (Guelph) (Feb 2008)**  
**University of Wisconsin School of Veterinary Medicine (Madison) (Feb 2008)**  
**Virginia-Maryland Regional College of Veterinary Medicine (Blacksburg) (Jan 2008)**  
**North Carolina State University College of Veterinary Medicine (Raleigh) (Nov 2007)**  
**Cornell University Dept. of Animal Science (Ithaca) (Oct 2007)**  
**The Atlantic Veterinary College, Prince Edward Island (Charlottetown) (Sept 2007)**  
**Penn State Dairy Production Medicine Course (State College) (Aug 2007)**  
**University of Pennsylvania School of Veterinary Medicine (2006 - 2010)**  
**Alfred State College, NY (April 2006, Feb 2008)**  
**University of Kentucky (Lexington) (Oct 2006)**  
**Cornell University QMPS Extension Service (Richfield Springs and Dryden) (Dec 2004)**  
**Tufts School of Veterinary Medicine (North Grafton, MA) (July 2004, Oct 2005)**  
**University of Connecticut (Storrs) (Sept 2000)**

### **INVITED PRESENTATIONS FOR AGRICULTURAL ORGANIZATIONS**

**Harmony Organics with Temple Grandin (Ontario) (March / 2011)**  
**BioDynamic Training (Hawthorne Valley, NY) (Feb 11)**  
**Midwestern Bio-Ag (Reedsburg, WI) (Dec 2010)**  
**Acres USA (Indianapolis, IN) (Dec 2010)**  
**Midwestern Bio-Ag Field Days (Blue Mounds, WI) (Aug 2010)**  
**Cornell Extension Field Day (Pavilion, NY) (July 2010)**  
**Cold Hollow Veterinary Service (Sheldon, VT) (April 2009)**  
**Pro-Cert Organic of Canada (Little Falls, NY) (April 2009)**  
**Organic Meadow (Holstein, Milverton, & Kemptville, Ontario) (April 2009)**  
**Harmony Organics (Kincardine, Ontario) (March 2009)**  
**Dairy Marketing Service (Bird-In-Hand, PA) (Jan 2009)**  
**Natural Acres (Millersburg, PA) (Jan 2009)**  
**Middlebury, Indiana (Dec 2008)**  
**Alberta Organic Conference (Camrose, AB) (March 2008)**

**Going Organic Network of Alberta (various farms)** (March 2008)  
**Upper Midwest Organic Farming Conference (La Crosse)** (Feb 2008)  
**Montana Organic Association Annual Meeting (Big Falls)** (Dec 2007)  
**Carolina Farm Stewardship Association (Raleigh)** (Nov 2007)  
**The Organic Dairy Club (Prince Edward Island)** (Sept 2007)  
**Homestead Nutrition (New Holland, PA)** (Feb 2007)  
**Laurelville Mennonite Church Center (Laurelville, PA)** (Jan 2007)  
**Lancaster Organic Farmers Cooperative Producer Meeting (Bird-In-Hand, PA)** (Jan 2007)  
**Organic Valley Producer Meeting (Dryden, NY)** (Jan 2007)  
**Oregon Tilth Certified Organic (Salem)** (Nov 2006)  
**Dairy Marketing Service (Bird-In-Hand, PA)** (Jan 2006, Jan 2007)  
**MOFGA (Unity, Maine)** (March 2006)  
**New Hampshire Grazing Conference (Manchester)** (Feb 2006)  
**Jefferson County Extension, NY** (Oct 2005)  
**Ecological Farming Association Conference (Asilomar, CA)** (Jan 2005)  
**Heifer Project (Lookout Farm, MA)** (Nov 2004)  
**SARE, Vermont (Burlington, Fairlee)** (March 2004, April 2006)  
**International Organic Inspectors Training (Millersville, Port Matilda, PA)**  
(June 2000, 2006; Nov 2007)  
**Northeast Organic Dairy Producers Alliance (Gap, PA; Durham, NH)** (2001, 2006, 2009)  
**Horizon Producer Meeting (OR, CA MN, WI, NY, VT, ME, PA, VA)** (2006, 2009)  
**Clover Stornetta Producer Meeting (Petaluma, CA)** (Sept 2005)  
**NOFA-NJ** (Jan 2005)  
**Virginia Extension Service (Harrisonburg)** (March 2004)  
**NOFA-NY** (Dec 2000)  
**Biodynamic Farming Assoc. (Burlington, VT)** (Nov 2000)  
**Pennsylvania Assoc. for Sustainable Agriculture (PASA)** (2004, 2006, 2008)  
**Western Organic Dairy Conference (Humboldt, CA)** (2004, 2005, 2006)  
**NOFA-VT** (various dates beginning in 1999)  
**PCO** (various dates beginning in 2000)

## **APPOINTMENTS / ORGANIZATIONS**

- 3/09 – present **ECOA Animal Welfare Task Force**, Organic Agriculture Center of Canada, Truro, Nova Scotia
- 1/05- 1/10 **USDA National Organic Standards Board**, Chair of Livestock Committee (2007-2010). Write recommendations for regulatory implementation by USDA
- 9/07- 5/09 **Affiliate Assistant Professor**, Dept of Animal and Nutritional Sciences, University of New Hampshire, Durham, NH
- 5/99-3/2001 **AVMA Task Force on Alternative and Complementary Medicine**, representing Food Animal sector to develop standards for CAVM within AVMA.
- 3/01-present **Charter Member**, Veterinary Botanical Medicine Association (VBMA)
- 6/96-present **Member**, American Association of Bovine Practitioners (AABP)
- 6/95-present **Member**, American Veterinary Medical Association (AVMA)

## **CIVIC INVOLVEMENT**

- 6/97- 2007 **Speaker, USDA Pequea-Millcreek Project**, give talks to farmers during field days regarding water quality and manure management in relation to cattle health and public water supplies.
- 2006-2007 **Member**, Bart Township, PA Planning Commission
- 1998, 1999 **Mentor, U. of Penn SVM Food Animal Fellow Program**, teach medical and surgical techniques for dairy cattle to summer students (2 summers); ongoing teaching of visiting veterinary students as requested.
- 1986-1987 **Health Officer**, Town of Epping, NH
- 1983 -1984 **Director, Alternative Energy Coalition** student group at University of New Hampshire

**INTERESTS** Gardening, ethnobotany, theology, antiquarian veterinary books, rowing.

**CITIZENSHIP:** U.S. & the Netherlands