

**HUBERT J. KARREMAN**  
**PO Box 6**  
**Saxapahaw, NC 27340**

**EDUCATION**

- 2007-2008 **University of Pennsylvania**, School of Medicine, **Certificate: Clinical Research**  
[www.cceb.med.upenn.edu](http://www.cceb.med.upenn.edu)
- 1991-1995 **University of Pennsylvania**, School of Veterinary Medicine, **V.M.D.**  
[www.vet.upenn.edu](http://www.vet.upenn.edu)
- 1990-1991 **West Chester University**, Post-Baccalaureate medical program  
[www.wcupa.edu](http://www.wcupa.edu)
- 1980-1984 **University of New Hampshire**, College of Life Science and Agriculture. **B.S.**  
Major: Soil Science [www.colsa.unh.edu](http://www.colsa.unh.edu)

**EXPERIENCE**

- 2016-present **REVERENCE FARMS, LLC** (co-owner) [www.reverencefarms.com](http://www.reverencefarms.com)
- ▶ Pasture-based, 70-cow, A2A2 Jersey cow dairy farm where calves are raised on cows and cows are milked once daily for commercial production.
  - ▶ Grain-free, grass-fed, diversified pasture.
  - ▶ Also raise sheep, pigs and layers on pasture, mainly for ecological balance for land fertility. Fed certified organic feed even though we are not certified organic.
- 2010-present **DR. KARREMAN'S VETERINARY SOLUTIONS** [www.drkarremans.com](http://www.drkarremans.com)
- ▶ Natural treatment products for non-antibiotic treatment of infectious disease
  - ▶ Consulting for medical treatment of certified organic cattle using non-antibiotic treatments against infectious disease and non-hormonal treatments against infertility via botanical derivatives, biological immuno-modulation, acupuncture, low dose therapeutics and hands-on physical therapy.
  - ▶ Educational seminars for veterinary schools & organizations, farmer organizations, with optional in-barn instruction
  - ▶ Certified Cow Signals® trainer (1<sup>st</sup> person in the US) [www.cowsignals.com](http://www.cowsignals.com)
  - ▶ Pasture nutrition consulting to comply with organic pasture rule
- 2013-2015 **RODALE INSTITUTE (part-time)** [www.rodaleinstitute.org](http://www.rodaleinstitute.org)
- ▶ Conduct organic veterinary animal health classes
  - ▶ Responsible for Rodale Institute animal research projects
  - ▶ Conduct research studies with organic dairy farms in region
  - ▶ Partner with collaborators on pasture projects
- 1995-2015 **VETERINARY PRACTITIONER, Lancaster County, PA**
- ▶ Responsible for all emergency, routine and preventive medicine, surgery, reproduction and obstetrics on 100 +/- certified organic dairy farms.
  - ▶ Integrative medicine techniques applied daily: botanicals, biological immuno-modulation, acupuncture, low dose therapeutics and conventional approaches as each case requires.
  - ▶ Analyze trends and associated management on organic farms using DHIA

- 1993 **SUMMER 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).
- 1992 **SUMMER 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.
- 1990-1991 **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 (*Mycobacterium 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.
- 1988-1990 **HERDSMAN:** Seven Stars Farm, Kimberton, PA. [www.sevenstarsfarm.com](http://www.sevenstarsfarm.com)
- ▶ Daily health care, feeding and milking of a 60 cow Jersey and Guernsey herd.
  - ▶ Administer vaccinations, vitamins, probiotics, natural therapies and antibiotics 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.
- 1984-1988 **SOIL SCIENTIST:** southeastern New Hampshire
- ▶ Classify and map soil (USDA SCS method) for landowners in towns with land-use regulations based on soil-type and wetland setbacks i
  - ▶ Evaluate soil test pits for explicit descriptions of soil color, texture, structure, consistence, slope, impervious layers and seasonal high-water table.
- 1983-1984 **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.
  - ▶ Prepare drafting designs and topographic maps for conservation practices.

## PUBLICATIONS

### AUTHORED BOOKS

Hubert Karreman. [Four Seasons Organic Cow Care](#) Acres, USA, Austin, TX, 2016. (Soft cover, 235 pgs.)

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.)

### PUBLISHED TEXTBOOK CHAPTERS

[Improving Animal Welfare, 3<sup>rd</sup> edition \(Chapter 12\)](#) **Animal well-being on organic farms.** (Temple Grandin, ed.) CABI, 3<sup>rd</sup> edition, 2021)

[Current Veterinary Therapy, Food Animal Practice \(Chapter 100\)](#)  
**Therapeutic options in organic livestock medicine**  
(Anderson and Rings, eds.) Elsevier, 2008

[Veterinary Herbal Medicine \(Chapter 23\)](#) **Phytotherapy for Dairy Cows**  
(Wynn and Fougere, eds.) Mosby, 2007.

[Global Development of Organic Agriculture](#) **Sustainable veterinary medical practices in organic farming: a global perspective.** (Halberg, Alroe, Knudsen and Kristensen, eds.) CABI, 2006.

[Alternative Livestock Health Practices \(Chapter 9\)](#) **Livestock Treatments Links from the Past to Holistic Alternatives of the Present** (Morrison and Kielty, eds.) Blackwell Scientific, 2005.

### JOURNAL ARTICLES

U.S. Sorge, A. Bastan, H. Karreman **Interest of Bovine Practitioners in Complementary and Alternative Veterinary Medicine in 2006 and 2010.** ARAVS Vol 2 [1 and 2] 2015.

Tunick, Michael & Paul, Moushumi & Ingham, Elaine & Karreman, Hubert & Hekken, Diane. (2015). **Differences in milk characteristics between a cow herd transitioning to organic versus milk from a conventional dairy herd.** International Journal of Dairy Technology. 68. 10.1111/1471-0307.12255.

Cross AS, Karreman HJ, Zhang L, Rosenberg Z, Opal SM, Lees A. (2014) **Immunization of cows with novel core glycolipid vaccine induces anti-endotoxin antibodies in bovine colostrum.** Vaccine. 2014 Oct 21;32(46):6107-14.

Pinedo P, Karreman H, Bothe H, Velez J, Risco C. (2013) **Efficacy of a botanical preparation for the intramammary treatment of clinical mastitis on an organic dairy farm.** Can Vet J. 2013 May;54(5):479-84.

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.

### **PEER-REVIEWED ABSTRACTS**

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.

### **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 popular press (NODPA, GRAZE, etc).

### **INVITED LECTURES AT CONFERENCES** (with printed Proceedings)

**Southwest Veterinary Symposium, San Antonio, TX** (October 2019)

**Wisconsin DATCP (Madison, WI)** (April 2017)

**World Buiatrics Congress (Dublin, Ireland)** (July 2016)  
**Eco-Ag University Acres USA pre-conference (Columbus, OH)** (Dec. 2014)  
**Wisconsin Veterinary Medical Association (Madison, WI)** (Oct. 2013)  
**1<sup>st</sup> Organic Congress of the East Black Sea (Kelkit, Turkey)** (June 2013)  
**Eco-Ag University Acres USA pre-conference (Louisville, KY)** (Dec 2012)  
**2<sup>nd</sup> IFOAM Organic Animal Husbandry Congress (Hamburg, Germany)** (Sept 2012)  
**AHVMA Annual Conference** Veterinary Botanical Medical Association track (Aug 2011)  
**10<sup>th</sup> International Herb Symposium (Norton, MA)** (June 2011)  
**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/or FARMERS (no printed proceedings)**

**Cal Poly Tech San Luis Obispo** (May 2019)  
**SUNY Delhi Dairy Conference** (January 2019)  
**NOFA-NJ** (January 2019)  
**Owego Faith-Farming-Food Forum** (November 2018)

**Kansas State School of Veterinary Medicine** (September 2018, 2019, 2020)  
**Sterling College** (June 2017 & June 2018)  
**Cornell School of Veterinary Medicine** (March 2018)  
**Cornwall Ontario Eco-Farm Days** (January 2018)  
**NCSU School Of Veterinary Medicine** (November 2017)  
**Indiana Grazing Conference** (February 2017)  
**Alfred State College Grasstravaganza** (summer 2016)  
**Delaware Valley University** (November 2015)  
**FDA Pre-INAD Meeting** (August 2015)  
**Maple Hill Creamery CowSignals® Workshop (Fort Plain, NY)** (April 2015)  
**UVM Extension CowSignals® Workshop (Shoreham, VT)** (March 2015)  
**Tufts Veterinary School (North Grafton, MA)** (March, 2015)  
**Rodale Institute Cow Class & full CowSignals® workshop (Kutztown, PA)**  
(March, Nov. 2014 & March 2015)  
**MOSES Organic University (LaCrosse, WI)** (Feb. 2015)  
**BioDynamic Winter Intensive (Harlemville, NY)** (Feb. 2011, 2013, 2015)  
**BioDynamic Association Conference (Louisville, KY)** (Nov. 2014)  
**Chico State University – full Cow Signals® workshop (Chico, CA)** (Oct 2012)  
**4<sup>th</sup> Annual UC Davis Veterinary Practitioners Seminar (Davis, CA)** (Oct 2012)  
**British Cattle Veterinary Association (Telford, UK)** (Nov 2012)  
**MOFGA Common Ground Fair (Unity, Maine)** (Sept 2012)  
**Dr/ Paul's/Organic Valley Veterinary Workshop (Viroqua, WI)** (Sept 2012)  
**Vetvice / Cow Signals teaching center (Bergharen, NL)** (May 2012)  
**U of Penn School of Veterinary Medicine 3<sup>rd</sup> year elective course:**  
Complementary & Alternative Medicine (2006-2011) Guest Lecturer  
**University of Minnesota School of Veterinary Medicine** (Nov 2011)  
**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**

**Global Organic Alliance (Bellefontaine, OH)** (March 2015)

**Agri-Dynamics (Penn Yan, NY & LaGrange, IN)** (March 2015)

**Netherlands Organization for Phytotherapy (Wageningen & Utrecht, NL)**  
(Oct. 2014)

**Dimela Veta Latvija (Riga, Vieste, Jelgava & Stende, Latvia)** (Jan. 2014)

**North Carolina Organic Commodities and Livestock Conference** (Feb 2013)

**Harmony Organic Farmer meeting** (May 2012)

**Organic Valley Co-op Farmer meetings (ME, VT, NY, PA, MD, VA, WV, NC)**  
**with full CowSignals® workshops in WA & OR** (Aug 2011 – September 2013)

**NOFA-NY** (Nov 2011)

**Harmony Organic with Temple Grandin (Ontario)** (March / 2011)

**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 Meetings (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)

## ORGANIZATIONS / APPOINTMENTS/ TRAINING

- 2014-present **American College of Veterinary Botanical Medicine**, organizing member (bovine) <https://www.acvbm.org>
- 2011-present **Veterinary Botanical Medical Association** charter member [www.vbma.org](http://www.vbma.org)
- 2010-present **College for Integrative Veterinary Therapies (CIVT)** faculty [www.civtedu.org](http://www.civtedu.org)  
Webinar speaker
- Spring 2012 **International Veterinary Acupuncture Society course (IVAS)** (Oregon)
- June 2011 **International Herbal Symposium (IHS) VBMA-track course** (Wheaton, MA)
- 2009-2011 **EOCA Animal Welfare Task Force**, Organic Agriculture Center of Canada, Truro, Nova Scotia
- 2005-2010 **USDA National Organic Standards Board**, Chair of Livestock Committee (2007-2010). Write recommendations for regulatory implementation by USDA [www.nop.gov](http://www.nop.gov)
- 2007-2009 **Affiliate Assistant Professor**, Dept of Animal and Nutritional Sciences, University of New Hampshire, Durham, NH
- July 2004 **VBMA** course at Tufts University
- June 2001 **Bovine Acupuncture for non-acupuncturists** Colorado State University
- 1999-2001 **AVMA Task Force on Alternative and Complementary Medicine**, representing Food Animal sector to develop standards for CAVM within AVMA.
- 2001-present **Charter Member**, Veterinary Botanical Medicine Association (VBMA) [www.vbma.org](http://www.vbma.org)
- 1996-present **Member**, American Association of Bovine Practitioners (AABP); Committee on Pharmaceutical & Biological Issues [www.aabp.org](http://www.aabp.org)
- 1995-present **Member**, American Veterinary Medical Association (AVMA) [www.avma.org](http://www.avma.org)

## CIVIC INVOLVEMENT

- 1/00-present **The Moo News**, monthly newsletter on organic health issues and other topics from a practical perspective; indexed and free and also published in the Country Folks (circulation in the northeast US).
- 6/97- 2007 **Speaker, USDA Pequea-Millcreek Project**, give talks to local farmers in Lancaster County during field days regarding water quality and manure management in relation to cattle health and public water supplies.

- 2006-2007 Bart Township, Lancaster County, PA, Township 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; established canine kennel ordinance.
- 1983 -1984 **Director, Alternative Energy Coalition** student group at University of New Hampshire

**INTERESTS** Antiquarian veterinary textbooks; intuitive life connections; hands-on healing

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