

Paul D. Virkler, DVM

Senior Extension Associate
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EDUCATION

B.S. - 1995 Animal Science, College of Agriculture and Life Sciences, Cornell University
DVM - 1998 College of Veterinary Medicine, Cornell University

CERTIFICATIONS AND LICENCES

Active Veterinary Medical License in New York
USDA Accredited Veterinarian
Foreign Animal Disease Diagnostician Training Course, Plum Island Animal Disease Center 2009
Infectious Disease Epidemiology: Diagnosis, Modeling, and Risk: Part I and II 2008
Applied Epidemiology in Bovine Practice Level II AABP seminar 2005
Statistical Analysis in Production Medicine certificate series by Michigan State University 2000

HONORS AND AWARDS

Anne Besse Prize 1998
Merck Manual Award 1998
Francis H. Fox Scholarship 1997
Phi Zeta, Honor Society of Veterinary Medicine 1997
Jane Miller Award for Physiology 1996
Gamma Sigma Delta, Honor Society of Agriculture 1994
Dairy Fellows Program 1993-1995
American Society of Animal Science Award for Scholastics 1993
Frank Morrison Scholarship Award for Animal Science 1993

PROFESSIONAL EXPERIENCE

- 2014-present Senior Extension Associate – Quality Milk Production Services -- Director of Northern Laboratory – Animal Health Diagnostic Center, College of Veterinary Medicine, Cornell University, Ithaca/Canton, New York
- Provide science based advice to dairy producers and their veterinarians as an integral part of their udder health and milk quality teams
 - Teach milk quality related courses and educational programs to undergraduate and veterinary students, veterinarians, producers, and other industry employees
 - Collaborate in applied research to advance the state of knowledge in the area of udder health, mastitis, and milk quality
- 2008-2013 Senior Extension Associate – Veterinary Support Services – Animal Health Diagnostic Center, College of Veterinary Medicine, Cornell University, Ithaca, New York (January 2008)
- Provide timely advice and assistance to AHDC veterinary clients in the implementation or the use of prevention, detection, and mitigation strategies in animal populations and production units.
 - Assist federal, state, and industry partners in disease detection, control, and outbreak

resolution.

- Provide information and guidance to private practitioners concerning: sample submission, test strategies, test selection, and management

- 2005-2007 Solution Manager –Rubber and Systems Analysis-DeLaval Inc, Kansas City, Missouri
- Develop and present ongoing training programs for dealer employees across North America and Europe that focus on improving the interaction between milking equipment, cows, and people
 - Serve as a technical resource for North American dealers and customers experiencing challenges related to milking systems, mastitis, teat health, and milk quality
 - Design and direct on-farm research trials for product testing
- 1998-2005 Dairy Veterinarian and Partner - Attica Veterinary Associates, Attica, New York
- Primary herd veterinarian focusing on milk quality, reproduction, herd health, calf management, NYSCHAP programs, and record analysis for over 30 dairy farms
 - Developed and utilized a Parlor Performance Program to jointly discuss and devise management changes with owners and milking teams on farms in New York and Pennsylvania
 - Managed an in-house microbiology lab and supervised the laboratory technicians
- 1998-1999 Extension Veterinarian - Consorzio-Ricerca Filiera Latteriero-Casearia, Ragusa, Italy
- Developed and implemented an on farm milk quality education project targeted at fifteen prominent Sicilian farms
 - Presented on milk quality and mastitis topics at numerous meetings for producers and industry representatives
 - Established a microbiology lab for analysis of milk samples collected from individual cows and farms
- 1995 & 1996 Summer Dairy Consultant Assistant – Dairy Production Ideas: John Ferry, Adams, New York
- Consulted in the areas of milk quality, financial, nutritional, cow comfort, preventative medicine, and general management on progressive dairy farms across the Northeast
- Summer 1994 Farm Employee – Porterdale Farms, Watertown, New York
- Worked in all aspects of an 800 cow dairy including milking, cow management, and crop harvesting
- 1978-1994 Farm Employee – Floyd C. Graves Farm, Croghan, New York
- Performed all duties on 30 cow family dairy including implementation and monitoring of management programs

PROFESSIONAL SERVICE

NYSVMS Large Animal Committee 2017-present

NMC Machine Milking Committee 2007-2008 and 2017-present

NMC Teat Health Committee 2014-present

Empire State Milk Quality Council Board 2003-2005 and 2014-present

American Farm Bureau Animal Care Advisory Committee 2014-present

USAHA Committee on Infectious Diseases of Cattle, Bison, and Camelids 2011-present

New York State Secure Milk Supply Working Group 2012-2016

Cornell College of Veterinary Medicine Continuing Education Committee 2008-2016

New York State Veterinary Conference Committee Member and Bovine program 2009-2016
NYS Bovine Issues Emergency Working Group 2008-2016
Executive Board of the Animal Health Diagnostic Center 2011-2012
Empire State Dairy Equipment Technician Certification Program Board 2002-2005
New York State Quality Milk Production Services Veterinary Advisory Board 2002-2005
Genesee County Farm Bureau Board 1999-2005; Vice President 2004-2005

PROFESSIONAL SOCIETY MEMBERSHIPS

American Association of Bovine Practitioners
American Association of Veterinary Laboratory Diagnosticians
American Veterinary Medical Association
New York State Veterinary Medical Society
NMC
United States Animal Health Association

FUNDING

NNYADP: Assessing the effect of on-line training systems on milk quality and parlor performance.
Ospina, Virkler, Leal-Yepes, Heuwieser, and Wieland. 1/19-12/19.

DeLaval: External teat sealant and selective dry cow therapy field trial. Nydam, Virkler,
Watters. 12/16-6/19.

NY Farm Viability Institute: Selective Dry Cow Therapy: Increasing profits and decreasing antibiotic
Use. Nydam, Vasquez, Eicker, Virkler. 4/16 – 6/19.

IBA: Effect of milking liner longevity characteristics on milk harvest performance.
Watters, Wieland, Nydam, Virkler. 4/18-3/19.

NNYADP: Assessing the effect of two different automatic cluster remover settings on milking unit-
on time, total milk yield, and teat condition. Virkler, Wieland, Rauch, Nydam, Morrill, Ferlito,
Heuwieser, Fowler, and Hill. 1/18-12/18.

IBA: Milking time comparison of IBA ProSquare DPX2 inflations with and without phthlates.
Watters, Wieland, Nydam, Virkler. 4/18-12/18.

DeLaval: Evaluation of the efficacy of a high or low free iodine teat disinfectant in reducing
new intramammary infections. Watters, Nydam, Virkler. 12/16 – 12/18.

NY Farm Viability Institute: Association between select bulk tank bacteria counts, intervention
strategies and milk quality. Ospina, Zurakowski, Nydam, Virkler. 1/15 – 12/16.

DeLaval: Descriptive study of the influence of the clover liner on machine milking induced teat tissue
changes. Wieland, Nydam, Virkler. 9/15 – 10/16.

PUBLICATIONS

Refereed manuscripts

- Wieland, M., Melvin, J.M., Nydam, D.V., and **Virkler, P.D.**: 2019. A longitudinal prospective cohort study investigating the association of premilking stimulation and teat-end shape on milking characteristics and teat tissue condition in dairy cows. *BMC Vet Res* 15(1):58.
- Melvin, J.M., Heuwieser, W., **Virkler, P.D.**, Nydam, D.V., and Wieland, M.:2019. Machine milking-induced changes in teat canal dimensions as assessed by ultrasonography. *J Dairy Sci* 102(3):2657-2669.
- Miles, A., McArt, J.A.A, Leal Yepes, F.A., Stambuk, C.R., **Virkler, P.D.**, Huson, H.J.:2019. Udder and teat conformational risk factors for elevated somatic cell count and clinical mastitis in New York Holsteins. *Prev Vet Med* 163:7-13.
- Vasquez, A.K., Ganda, E.K., Capel, M.B., Eicker, S., **Virkler, P.D.**, Bicalho, R.C. and Nydam, D.V.:2019. The microbiome of *Escherichia coli* and culture-negative nonsevere clinical mastitis: characterization and associations with linear score and milk production. *J Dairy Sci* 102(1):578-594
Also as an abstract and oral presentation by Amy Vasquez at AABP in Phoenix, AZ in Sept 2018.
- Wieland, M., Nydam, D.V., Alveby, N., Wood, P., and **Virkler, P.D.**:2018. Short communication: Teat-end shape and udder-level milking characteristics and their associations with machine milking-induced changes in teat tissue condition. *J Dairy Sci* 101:11447-11454.
- Cummings, K.J., **Virkler, P.D.**, Wagner, B., Lussier, E.A., Thompson, B.S.: 2018. Herd-level prevalence of *Salmonella* Dublin among New York dairy farms based on antibody testing of bulk tank milk. *Zoonoses and Public Health*. 65(8):1003-1007.
- Wieland, M., **Virkler, P.D.**, Borkowski, A.H., Alveby, N., Wood, P, Nydam, D.V.: 2018. An observational study investigating the association of ultrasonographically assessed machine milking induced changes in teat condition and teat-end shape in dairy cows. *Animal Jun* 21:1-8.
- Vasquez, A.K., Nydam, D.V., Foditsch, C., Wieland, M., Lynch, R., Eicker, S., and **Virkler, P.**: 2018. Use of culture-independent on-farm algorithm to guide the use of selective dry cow antibiotic therapy. *J Dairy Sci* 101(6): 5345-5361.
- Wieland, M., Melvin, J.M., **Virkler, P.D.**, Nydam, D.V., Heuwieser, W.: 2018. Technical note: Development and evaluation of a standard operating procedure for ultrasound-based measurements of teat canal dimensions in dairy cows. *J Dairy Sci* 101:1518-1523.
- Wieland, M., Nydam, D.V., **Virkler, P.D.**: 2017. “A longitudinal field study investigating the association between teat-end shape and two minute milk yield, milking unit-on time, and time in low flow rate. *Livestock Sci*. 205: 88-97
- Vasquez, A.K., Nydam, D.V., Capel, M.B., Eicker, S., **Virkler, P.D.**:2016. Clinical outcome comparison of immediate blanket treatment versus a delayed pathogen-based treatment protocol for clinical mastitis in a New York dairy herd. *J Dairy Sci* 100:2992-3003.

Abstracts

- Vasquez, A.K., Eicker, S., **Virkler, P.D.**, and Nydam, D.V.: Case Report: Use of pathogen-based treatment strategies for nonsevere clinical mastitis on moderate-sized dairies. Abstract and oral presentation by Amy Vasquez at NMC in Savannah, GA in January 2019.
- Vasquez, A.K., Eicker, S., **Virkler, P.D.**, and Nydam, D.V.: Promoting prudent use of antimicrobials on moderate-sized dairies: use of pathogen-based protocols for the treatment of non-severe clinical mastitis in 8 New York herds. Abstract and oral presentation by Amy Vasquez at AABP in Phoenix, AZ in September 2018.
- Vasquez, A.K., Ganda, E.K., Nydam, D.V., Capel, M.B., Eicker, S., **Virkler, P.D.**, and Bicalho, R.C.: The microbiome of Escherichia coli and culture-negative nonsevere clinical mastitis: Characterization and associations with linear score and milk production. Abstract and oral presentation by Amy Vasquez at AABP in Phoenix, AZ in September 2018.
- Wieland, M., Nydam, D.V., Älveby, N., Wood, P., **Virkler, P.D.**: A longitudinal prospective cohort study to investigate the association between udder-level milking characteristics and machine milking induced changes on teat tissue condition. Abstract and oral presentation by Matthias Wieland at NMC regional meeting in Milan in June 2018.
- Scillieri Smith, J.C., Morrill, K.M., Gauthier, H.M., Dann, H.M., Ballard, C.S., Rauch, B.J., **Virkler, P.D.** and Nydam, D.V.: Assessing the Risk of Subclinical Infections in Cows with Clinical Mastitis. Poster and oral presentation by Jessica Scillieri Smith at NMC Annual Conference, Tucson, AZ. February 2018.
- Vasquez, A.K., Foditsch, C., Wieland, M., Lynch, R.A., **Virkler, P.D.**, Eicker, S., Nydam, D.V.:2016. An on-farm algorithm to guide selective dry cow therapy. Poster and presentation by Amy Vasquez at ADSA, June 2017.
- Wieland, M., **Virkler, P.**, Alveby, N., Wood, P., Nydam, D: A prospective cohort study to investigate the association of machine milking induced short-term changes, milking characteristics, and teat-end shape. Poster and oral presentation by Matthias Wieland at The Liner Conference, Copenhagen, Denmark. February 2017.
- Wieland, M., **Virkler, P.**, Borkowski, A., Alveby, N., Wood, P., Nydam, D: Teat Recovery after Machine Milking as determined by Ultrasonography and its Association with Teat-end Shape. Poster and oral presentation by Matthias Wieland at NMC, January 2017.
- Wieland, M., **Virkler, P.**, Nydam, D.: Inter and intra-cow variability and the effect of teat-end shape on average milk flow rate, milk harvested in the first two minutes, and seconds below 2.2 lbs (1 kg) per minute. Poster presented at Symposium of Integrated Approaches to Sustainable Dairy Production, AABP and IDF International Mastitis Conference.
- Ospina, P.A., Santisteban, C., **Virkler, P.**, Moroni, P., Welcome, F., Nydam, D.: Comparison between 24- and 48-hour milk culture results. Poster presented at NMC annual conference, 2016.

Lombard, J.E., Thompson, B., **Virkler, P.**, Wagner, B., Kristensen, C., Fossler, C.: Salmonella Dublin antibodies in bulk-tank milk on U.S. dairy operations. Abstract and oral presentation by Lombard at ADSA 2015.

Thompson, B.S., **Virkler, P.**, Kilts, D., Wagner, B., Lussier, E.A., Smith, D.: Salmonella Dublin herd bulk tank seroprevalence of NY dairy farms. Abstract and oral presentation by Thompson, B.S. at AAVLD, 2013.

Thompson, B.S., **Virkler, P.**, Lussier, E.A., Smith, D.: Resources for collecting and accessioning single bulk milk samples from every commercial dairy farm in New York State. Abstract and oral presentation by Thompson, B.S. at AAVLD, 2013.

Invited Extension Publications

It's back to the basics to prevent high bacteria counts

Co-authored article for Hoard's Dairyman, February 2019

Make sure to define milking's finish line

Co-authored article for Hoard's Dairyman, January 2019

Monitoring your milking center with electronic records

Co-authored article for Progressive Dairyman, November 2018

Milking 4x brings advantages and pitfalls

Co-authored article for Hoard's Dairyman, October 2018

Monitoring the parlor without electronic records

Co-authored article for Progressive Dairyman, September 2018

Make daily milking center maintenance checks part of milk quality routine

Co-authored article for Progressive Dairyman, April 2018

Take Mycoplasma infections very seriously

Co-authored article for Hoard's Dairyman, April 2018

Jake discovered the true value of milk quality

Co-authored article for Hoard's Dairyman, March 2018

Manage teat dip products to prevent dry teat skin

Co-authored article for Progressive Dairyman, January 2018

Teat skin condition matters

Co-authored article for Progressive Dairyman, September 2017

Guard the teat-end gate when treating cows

Article for Hoard's Dairyman, September 2017

Prevent mastitis through proper management and monitoring of the milking system
Article for Progressive Dairyman, May 2017

Monitoring Your Milking System Quarterly
Article by Jim Dickrell for Dairy Herd Management on my NMC talk, March 2017

These steps can reduce mastitis
Co-authored article for Hoard's Dairyman, March 2017

Tie stall milking requires precise timing
Co-authored article for Hoard's Dairyman, December 2016

Influence of Cow Characteristics and Premilking Udder Preparation on Milk Flow and Teat Condition
Co-authored article for DairyBusiness and Holstein World Manager, October 2016

Dry-off protocols: Why taking the time to do it right matters.
Co-authored article for Progressive Dairyman, October 2016

This trifacta led to better milkout
Co-authored article for Hoard's Dairyman, September 2016

Salmonella Dublin on dairy operations
Co-authored article for USDA-APHIS-VS Accredited Veterinarian Newsletter, March 2016

Teat dips are just one step to improved milk quality
Co-authored article for Hoard's Dairyman, February 2016

You produce food so keep your milking center clean
Co-authored article for Hoard's Dairyman, January 2016

Do your cows like being milked?
Article for Hoard's Dairyman, July 2015

Milking time evaluations are more than just numbers
Co-authored article for Dairy Business East, July 2015

Prototheca thrive on moisture
Co-authored article for Hoard's Dairyman, May 2015

Let milk cultures guide treatment
Co-authored article for Hoard's Dairyman, February 2015

Where is your parlor falling behind
Co-authored article for Hoard's Dairyman, December 2014

Teams can troubleshoot cleaning problems
Co-authored article for Hoard's Dairyman, September 2014

Are you missing *Salmonella* Dublin

Co-authored article for Hoard's Dairyman, July 2014

BOOK CHAPTERS

Diseases of the Teats and Udder, Moroni, P, Nydam DV, Ospina, PA, Scillieri Smith, JC, Virkler, PD, Watters, RD, Welcome, FL, Zurakowski, MJ, Ducharme, NG, Yeager, YE. In *Rebhun's Diseases of Dairy Cattle* Third Edition, SF Peek and TJ Divers, eds. Elsevier, 2018.

Liner and Claw Training Manual. DeLaval Inc. Kansas City, MO

INVITED LECTURES AND SEMINARS

“Short-term teat dynamics, vacuum, and unit alignment”

“Milking center settings and automation”

“Dairy Comp 305 parlor analysis”

“Case study to illustrate milking center evaluations”

Lectures for QMPS Course: Assessing Udder Health Opportunities: KPI's and Monitoring the Milking Center, Ithaca, NY, March 2019

“Average Claw Vacuum, Pulsation, and Teat Scoring”

“Discussion of Goals, Recommendations, and Long Term Action Plans”

Lectures in NMC Annual Meeting Short Course, Savannah, GA, January 2019

“Mastitis prevention through proper management of the milking system”

Presentation at XX Chilean Congress of Veterinary Medicine in Pinto, Chile. November 2018

“Systematic Approach to Monitoring the Milking Center”

Presentation at DeLaval dealer meeting in Madison. Wisconsin. September 2018

“Systematic Approach to Troubleshooting the Milking Center”

“Milking Routine Evaluation Using the Lactocorder and DC305”

Lectures for AABP Preconference Seminar in Phoenix, AZ September 2018

“Key Performance Indicators and Monitoring the Milking Center”

Two webinars to GEA dealers across the US. June 2018

“Culture and Mastitis Records Entry and Analysis”

Lectures for QMPS Spring Course: Assessing Udder Health Opportunities: Bugs and Treatment, Ithaca, NY, March 2018

“Key Performance Indicators and Monitoring the Milking Center”

Lecture to group of Latin America GEA dealers in February 2018, Fresno, CA

“Teat End Dynamics – Vacuum Settings – Unit Alignment”

“Understanding Liners and Automatic Take-off Settings”

“Assessing Milking Routines with Parlor Data”

“Cow side evaluation – Strip yields – hygiene – teat-end cleanliness”

Lectures given in the Dairy Health Management Continuing Education Program Module 5: Milking Equipment, People, and Procedures in January 2018, Guelph, Ontario

“Troubleshooting Mastitis and Milk Quality Problems”
Hoard’s Dairyman Webinar in December 2017

“Short-term teat dynamics, vacuum, and unit alignment”

“Milking center settings and automation”

“Dairy Comp 305 parlor analysis”

“Case study to illustrate milking center evaluations”

Lectures for QMPS Fall Course: Assessing Udder Health Opportunities: KPI’s and Monitoring the Milking Center, Ithaca, NY, November 2017 and for QMPS course for Chinese producers and veterinarians hosted by Boehringer Ingelheim in October 2017

“Systematic Approach to Troubleshooting the Milking Center”

“Milking Routine Evaluation Using the Lactocorder and DC305”

“NMC Milk System Cleaning Analysis Protocol”

Lectures for AABP Preconference Seminar in Omaha, NE, September 2017

“Milking Time Audit and Mastitis Risk Assessment”

Lecture for Certified Milk Inspectors, East Aurora and Canton, NY, September 2017

“Liners and Pulsation: Finding the Perfect Match”

“Teat Dips: More than Disinfectants”

Lectures at NYS Association of Food Protection in Syracuse, NY, September 2017

“Troubleshooting Bacteria Counts” and “*Lactococcus*”

Lecture for CNYAFP Meeting, Canastota, NY, May 2017

“Culture and Mastitis Records Entry and Analysis”

“Prototheca and Yeast”

Lectures for QMPS Spring Course: Assessing Udder Health Opportunities: Bugs and Treatment, Ithaca, NY, March 2017

“Preventing Mastitis Through Proper Management and Monitoring of the Milking System”

Lecture at NMC Annual Meeting General Session, St. Pete Beach, FL, January 2017

“Average Claw Vacuum, Pulsation, and Teat Scoring”

“Discussion of Goals, Recommendations, and Long Term Action Plans”

Lectures in NMC Annual Meeting Short Course, St. Pete Beach, FL, January 2017

“Prevention and Treatment of Mastitis in Dairy Sheep”

Lecture at North American Dairy Sheep Symposium, Ithaca, NY, December 2016

“*Salmonella* Dublin: What you can do to help your herds”

Lecture at Atlantic Bovine Practitioners Association, Moncton, New Brunswick, November 2016

“Automated Pathogen-Based Therapy: How can you make it work for your dairies?”

Lecture at Ontario Association of Bovine Practitioners, Guelph, ON, November 2016

“Short-term teat dynamics, vacuum, and unit alignment”

“Milking center settings and automation”

“Dairy Comp 305 parlor analysis”

“Case study to illustrate milking center evaluations”

Lectures for QMPS Fall Course: Assessing Udder Health Opportunities: KPI’s and Monitoring the Milking

Center, Ithaca, NY, October 2016

“Troubleshooting Bacteria Counts” and “*Lactococcus*”

Lecture for Certified Milk Inspectors, Albany, NY, September 2016

“Teat Scoring as a Window to Milk Quality Issues”

Clinical Forum at AABP, Charlotte, NC, September 2016

“Milking routine and cleaning evaluations and other measurements using milk flow analysis of the Lactocorder”

“Main mastitis pathogens and their transmission patterns”

“Molecular diagnostics in mastitis-Predominant strain coliforms and *Streps-Mycoplasma*”

“Monitoring parlor performance using DC 305”

Lectures for AABP Preconference Seminar, Charlotte, NC, September 2016

“Testing and Maintaining Milking Equipment”

Lecture for Orange County Cooperative Extension Meeting, Middletown, NY, March 2016

“History and How Antibiotics Function to Improve Animal Health”

Lecture for New York Beef Producers’ Association, Syracuse, NY, January 2016

“Practices and Equipment Differences to Milk Herds with High Milk Production”

Lecture for AMBEV conference, Torreon, Mexico, November 2015

“Salmonella Dublin, What you can do to help your herds”

Presentation at AABP in New Orleans, LA, September 2015

“Managing Your Clients Milking Center to Reach the Next Level”

Presentation in AABP preconference seminar in New Orleans, LA, September 2015

“Systematic Treatment of Clinical Mastitis to Decrease Drug Use and the Risk of Residues, and Sell More Milk”

Co-taught this short course at NMC Regional Meeting in Syracuse, NY July 2015

“Troubleshooting Bacterial Milk Quality Problems:An Organized Approach”

Co-taught this short course at NMC Regional Meeting in Syracuse, NY July 2015

“Managing Your Clients Milking Center to Reach the Next Level”

Lecture for NMC Regional Meeting in Syracuse, NY, July 2015

“Practices and Equipment Differences to Milk a Herd with a 32,000 RHA”

Lecture for Expo leche San Marcos, Aguascalientes, Mexico, April 2015

“Managing Your Milking Center to Reach the Next Level”

Lecture for Valleywide Veterinary producer meeting, Middlebury, Vermont, March 2015

“Monitoring Your Clients Milking Parlor”

Lecture for NEDPMS in Syracuse, NY, March 2015

“Scoring Systems to Monitor Teat Cleanliness and Health”

Lecture for Cornell Cooperative Extension Milk Quality Seminars, January 2015

“Mycoplasma Mastitis: What Have We Learned”

Joint Lecture with Dr. Paolo Moroni for New York State Veterinary Conference, 2014

“Using Somatic Cell Count Data to Manage Udder Health and Milk Quality”

Lecture for Wimm Bill-Dann-Cornell Dairy Courses, 2014

“Dairy Facilities, Udder Health and Milk Quality”

Lecture for Wimm-Bill-Dann-Cornell Dairy Courses, 2014

“*Salmonella* Dublin”

Syracuse, NY; Northeast Dairy Production Medicine Symposium, March 23, 2013

Buffalo, NY; Northeast United States Animal Health Association Meeting, May 21, 2013

Syracuse, NY; NYSCHAP meeting with state animal health officials, January 14, 2014

“*Salmonella* Dublin”

Syracuse, NY; presentation to QMPS advisory board, April 22, 2013

Canton, NY; meeting for northern NY veterinarians, sponsored by NYS Dept. of Ag and Markets Division of Animal Industries, March 7, 2013

Burrville, NY; meeting for northern NY veterinarians, sponsored by NYS Dept. of Ag and Markets Division of Animal Industries, March 6, 2013

Springville, NY; meeting for western NY veterinarians, sponsored by NYS Dept. of Ag and Markets Division of Animal Industries, January 4, 2013

Batavia, NY; meeting for western NY veterinarians, sponsored by NYS Dept. of Ag and Markets Division of Animal Industries, December 13, 2012

Cortland, NY; meeting for Central NY veterinarians, sponsored by NYS Dept. of Ag and Markets, Division of Animal Industries, December 19, 2012

Cobleskill, NY; meeting for central region veterinarians and Cobleskill dairy program students, sponsored by NYS Dept. of Ag and Markets Division of Animal Industries, December 6, 2012

Salem, NY; meeting for Albany area veterinarians, sponsored by NYS Dept. of Ag and Markets Division of Animal Industries, November 29, 2012

Syracuse, NY; state animal health officials, October 16, 2012

Geneva, NY; veterinarians and local farmers, sponsored by the Keseca Veterinary Clinic, October 11, 2012

“Update on Emerging/Re-emerging Diseases in the Northeast”

Lecture at NYS Veterinary Conference, 2012

“Laboratory for Sampling of Necropsy Specimens for Aerobic and Anaerobic Culture, and Performing Impression Smears and Fecal Gram Stains”

Lecture and Wet Lab for veterinary technicians at AABP National meeting, Montreal, Quebec, 2012

“Calf Health and Pathogen Load in Group Housing Systems”

Presentation to dairy producers in Richfield Springs and Oneonta, NY, 2012

“NYSCHAP Foot Health Module”

Lecture for Winter Dairy Management Course taught at multiple locations across NYS, 2010, in NYSCHAP

course VM 6610, 2010-2012 and at SUNY Cobleskill, 2010-2014

“Aseptic tissue culture, transport media, and gastrointestinal sampling”

Lecture and laboratory at Train the Trainer: Laboratory Diagnostics for LVT faculty conference held at Cornell University, College of Veterinary Medicine, 2011, 2012, and 2014

“Diagnostic planning, sampling, shipping, and current disease updates”

Co-presented a one day session at Vermont Veterinary Medical Association Annual Meeting, 2011

“When Nightline shows a damaging video of one of your farms: The Outcome”

Co-presented a clinical forum at AABP National conference, 2011

“Diagnostic techniques for sampling skin lesions”

Lecture at New York State Licensed Veterinary Technician Annual Conference, 2011

“Johne’s Disease Diagnostics”

Co-presented a lecture to field veterinarians at the request of NYS Department of Agriculture and Markets at two locations in NYS, 2011

“Tips and Tricks for Diagnostic Sampling”

Lecture and laboratory for LVTs at NYS Veterinary Conference, 2010

“Neospora Caninum”

Review of Neospora for NYSCHAP field veterinarians 2009

“Liner and Claw Program”

Online training program presented to dealers 2007

“Milk Letdown Physiology and Parlor Performance Management”

Training presented to North American sales team and individual dealer meetings 2006-2007

“Technical Liner, Vacuum, and Pulsation Training”

Training presented at regional dealer conferences in Wisconsin; California; Maryland; Ontario, Canada; and Coahuila, Mexico 2006

“Liner and Milking System Analysis Training”

Two day technical training for Solutions Managers in Europe September 2006

One day training presented at 25 locations throughout Canada, Mexico, and the US Fall 2005-Spring 2006

“Super Milk: It Takes a Team”

Panel participant in Dairy Profit Seminar at Empire Farm Days 2005

“Hands on Necropsy Presentation”

Demonstrated basic anatomy and physiology to local 4-H group from Wyoming and Genesee counties 2005

“Dairy Days in Genesee County”

Explained veterinarian’s role in dairy cattle health to elementary students 2002-2005

“Flow Meter Analysis and Milking Routines”

Presentation to group of progressive dairypersons in central New York 2003

“Common Vaccines and Proper Injection Technique”
Presentation to NIOGA Holstein Club 2003

“Anatomy and Physiology of the Mammary Gland”
Presentations at Cornell Cooperative Extension milker training programs and individual farm trainings 2002-2004

“Basics of Microbiology”
Presentation to local calf raisers group from Wyoming and Genesee counties 2002

“HAACP Based Protocol Development of Milking Routines”
Participation in Breakthrough Management program on two farms over a six month period to develop detailed standard operating procedures for milking routines 2000

“Programmi di Gestione delle Mastiti”
Presentation on management of mastitis at Top Royal management course in Northern Italy 1999

“Come Ridurre le Cellule Somatiche Nell’ Allevamento”
Presentation on how to reduce somatic cell count on farms at a technical training in Sicily 1999

“Comparison of Two Modern Methods of Heat Detection on Large Dairies”
Senior Seminar Presentation, College of Veterinary Medicine, Cornell University 1998

TEACHING

DVM teaching

Summer Dairy Institute

Case Farm Leader 2015-present (20 hours total student time)

Multiple lectures and laboratories during milk quality week: 2015-present (~9 hours)

NYSCHAP program and Welfare Assessments lecture (1 hour): 2011-2012

Assessing Milking Equipment: Lecture and laboratory for Summer Dairy Institute (3 hours) 2008-2009

Block IV laboratory Inflammation II: Mastitis (3 hours) 2008-present

QMPS 2 week externship

Scott Bertoldo (2017)

Billy Chandler (2017)

Marissa Horton (2017)

Alexa McCourt (2017)

Ben Potvin (2017)

Anne Borkowski (2016)

Ben Grobshetyn (2016)

Alison Keggan (2016)

Allison Vander Plaats (2016)
Rebecca Calder (2015)

VM 5609: AHDC portion of Anatomic Pathology rotation: 4 hours per week for 2010-2013, 1 hour per week for 2014-2016

Block V: Udder Health at the Herd Level: lecture (1 hour) 2013-2014

VM 6604:

Clinical Mastitis and Therapy lecture (1 hour): 2014
Teat Scoring Training (1.5 hours) : 2014

VM 6610:

Lecture on NYSCHAP Foot Health Module (1.5 hours): 2011-2016
Lecture on Salmonella Dublin risk assessment (1 hour): 2014-2016

Large Animal Resident Presentation

Troubleshooting Transition Cow Problems (1 hour): 2011
Considerations in Calf Management (1 hour): 2011

Senior Seminar Advisor

Marissa Horton, Milk Quality Survey of a 1500-head milking herd
Karen James, Urea Toxicity on a Holstein Dairy

Graduate Student Mentoring

Matthias Wieland, Cornell Clinical Fellow 2015-2017 and PhD expected 2022 (Comparative Biomedical Science)
Asha Miles, PhD expected 2020 (Animal Science)

Undergraduate Teaching

Animal Science 3540

Producers and Veterinarians: lecture 2008-2009
Demonstration Field Necropsy: laboratory 2008-2009
Biosecurity in Dairy Replacements: lecture and laboratory 2008-2010, 2014-2015
Designing an Effective Vaccination Program: lecture and laboratory 2011-2013
Use of Parlor Reports to Monitor Milking Parameters 2014